

**Assessment Report Describing Soil Geochemistry Survey  
on the Echo and Chant Claim Group**

**Dawson Mining District**

**NTS:**

CHANT -115N16  
ECHO -115N10 & 115N15

**CHANT**

LAT: 63°54' N LONG: 140°22' W

**ECHO**

LAT: 63°44' N LONG: 140°40' W

**CLAIMS**

CHANT 1-112 (YD47767 – YD48078)  
ECHO 1-120 (YD50287 – YD50406)

**CHANT**

Field work completed on July 30-31, 2010

**ECHO**

Field work completed on July 29-30, 2010

**Ryan Gold Corp.**

**Author: Hua Jin**

**November 2011**

## **SUMMARY**

During the period from July 29<sup>th</sup> to July 31<sup>st</sup> in 2010, a total of 191 soil samples were collected from the Chant 1-112 claim group and additional 240 soil samples were collected from Echo 1-120 claim group by GroundTruth Exploration Inc. based out of Dawson city, Yukon Territory.

The intent of the soil sampling program was to follow up the Au anomaly in stream sediments identified by Geological Survey of Canada (GSC) at the Chant and Echo claim groups. The 2010 soil geochemistry survey consists of several reconnaissance ridge and spur soil traverse lines on the Chant and Echo claim groups to cover the drainage basin of the Au anomalies located in the stream sediments.

The soil survey successfully delineated two gold-in-soil anomalies in the southwest of the Chant claim group and the eastern flank of Mount Hart. In addition, gold in soil up to 11 ppb was also identified on Echo claim group. The soil anomalies delineated from the 2010 soil survey, in particular, the soil anomalies situated at the southwest of Chant claim is promising as it is underlain by favourable regional geology and has a strong magnetic signature. Further work including expansion of ridge and spur soil sampling program adjacent to the claim groups, trenching and geologic mapping is strongly recommended.

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# 1. INTROCUCTION

## 1.1 Location and Access

The Chant 1-112 claims and Echo 1-120 claims are located in the western central part of the Yukon Territory, approximately 49.4 km and 71.7 km southwest of Dawson City, respectively. The Chant 1-112 claim group is centered at latitude 63°54'N and longitude 140°22'W on NTS map sheet 115N16. The Echo 1-120 claim group is centered at latitude 63°44' N and longitude 140°40' W on NTS map sheet 115N10 & 115N15 (Figure 1). The claims were staked under the Yukon Quartz Mining Act and registered in the Dawson Mining District in the name of Shawn Ryan. Access to the Chant 1-112 and Echo 1-120 claim is by helicopter from Dawson city. Soil sampling crews who worked on the Chant and Echo claim in 2010 were flown there by a helicopter provided by TransNorth Helicopters.

## 1.2 Claim Status and Ownership

The Chant Claims 1-112 and Echo Claim 1-120 are registered with Dawson Mining Recorder in the name of Shawn Ryan and consist of 112 contiguous quartz claims and 120 quartz claims, respectively. Detailed claim information and location of the claim block is shown in Figure 2. Claim tenure information is summarized in table 1 below:

**Table 1. Claim tenure information**

| <b>Claim</b> | <b>Grant number</b> | <b>Expiry Date</b> | <b>Claim Owner</b> |
|--------------|---------------------|--------------------|--------------------|
| Chant 1-34   | YD47767-<br>YD47800 | April 26, 2012*    | Shawn Ryan - 100%  |
| Chant 35-112 | YD48001-<br>YD48078 | April 26, 2012*    | Shawn Ryan - 100%  |
| Echo 1-120   | YD50287-<br>YD50406 | June 16, 2012*     | Shawn Ryan - 100%  |

\*Expiry date includes 2010 work filed for assessment.

## 1.3 Topography, Vegetation and Climate

The area is unglaciated with elevation ranging from approximately 700m to 1500m on the Chant claim group and 900m to 1700m on the Echo claim group. The geography is characterized by rolling hills typical of the Dawson range with locally steep hills west of Mount Hart on the Chant claims.

Vegetation primarily consists of white spruce, birch and poplar black spruce with the tree line at approximately 1216m. Outcrop on the Chant 1-112 claims is poor with the majority below tree line. At Echo 1-120 claim, the area is mostly rolling tundra with no tree cover.

The area has a typical northern interior continental climate characterized by warm summers and long cold winters with light precipitation. Temperature ranges from 5°C to 20°C during the

summer and drops to between -25°C and -50°C in winter. The exploration season typically runs from mid-June to late September.

## **2. HISTORY**

Previous work at Chant and Echo claim groups or in the vicinity of the claim groups is summarized and listed below:

- |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1972      | Geological survey of Canada conducted a mapping program which located several outcrops of quartz-pebble conglomerate around Mount Hart and reported visible gold found in the quartz-pebble conglomerate outcrop, 2.7 km south-southwest of Mount Hart (Geological Survey of Canada, 1973).                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 1973      | Geological mapping and geochemical sampling was conducted by Silver Standard Mines Ltd., with no significant gold showings found (Mineral Industry report, 1973).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1998-2000 | A. Rudis and Ralph Nording carried out a geochemical soil, silt and rock sampling program. Two significant silt samples returned 25ppb and 58ppb Au from Cheryl Creek where coarse placer gold was historically recovered with some enclosed fragile cuprite crystals.<br>A total magnetic field survey run along Cheryl Creek returned two semi-continuous anomalies interpreted to be a possible bedrock source and/or placer gravels (Rudis, 1999-2001).                                                                                                                                                                                                                                                                        |
| 1999      | Prospector International Resources conducted silt sampling of the creeks surrounding Mount Hart and found moderate to strongly anomalous gold from four creeks. The most significant result was 167 ppb Au and 100 ppm As from a sample collected 1.2 km downstream from the head of the tributary of Enchantment Creek draining the northeast slope of Mount Hart (Jaworski and Meyer, 2000).                                                                                                                                                                                                                                                                                                                                     |
| 2007      | Equity engineering was contracted out by Rimfire Mineral Corporation to carry out mapping, prospecting and soil sampling. 11 Rock samples and 116 soil samples were collected on the Echo 1-72 claims. Gold assay results returned from the rock samples were below detection limit of 5ppb and the Au in soil ranged from 14 ppb and 29 ppb. Geological mapping identified medium to coarse grained muscovite + biotite ± garnet granite from the outcrop, trenched bedrock and float exposed at Echo. Weak to moderate sericite-clay-carbonate alteration was observed in the granite with quartz stockwork or quartz vein breccia and pyrite mineralization (1-2%) and trace galena found in wall rock and veins (Black, 2008). |

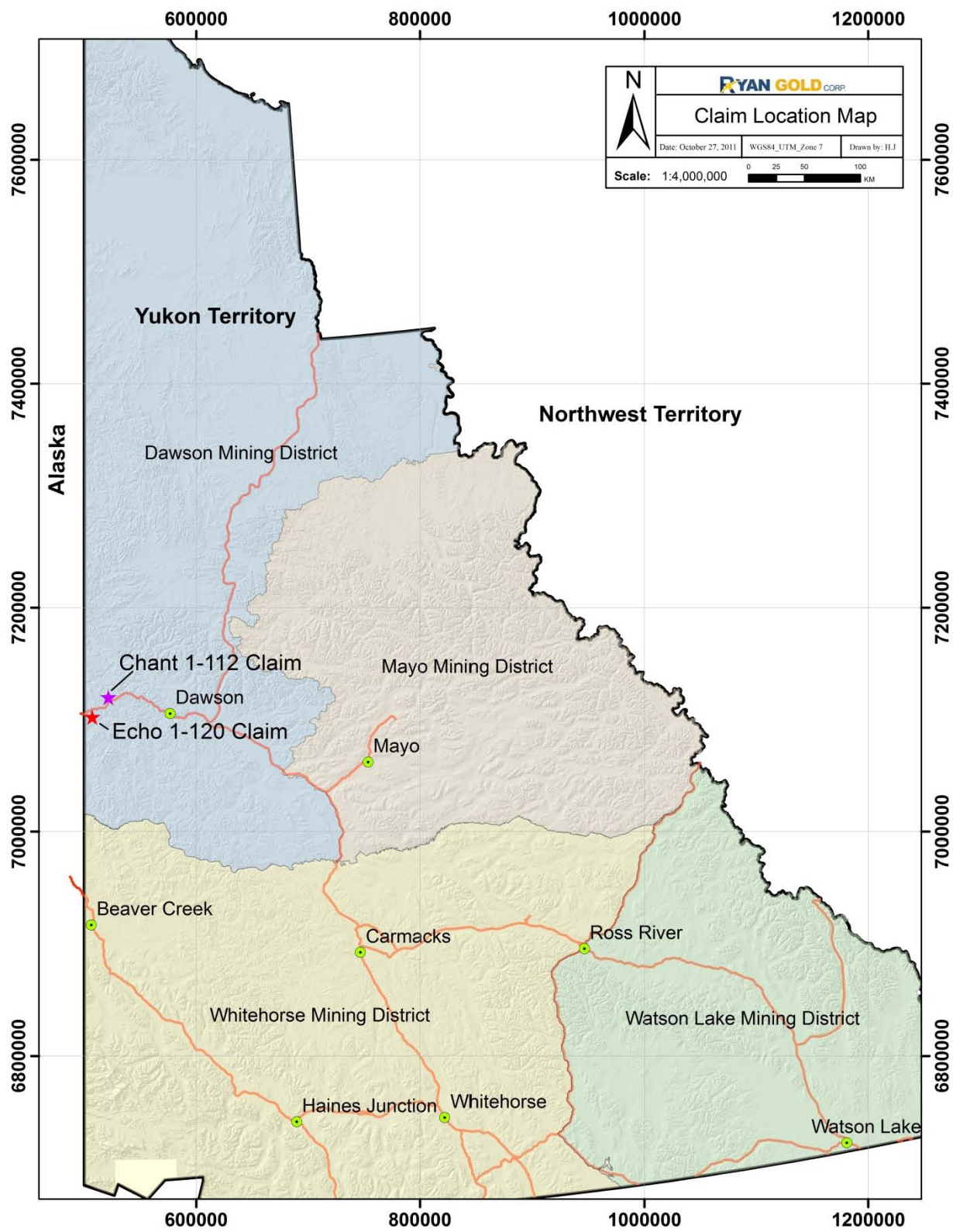


Figure 1. Claim Location Map

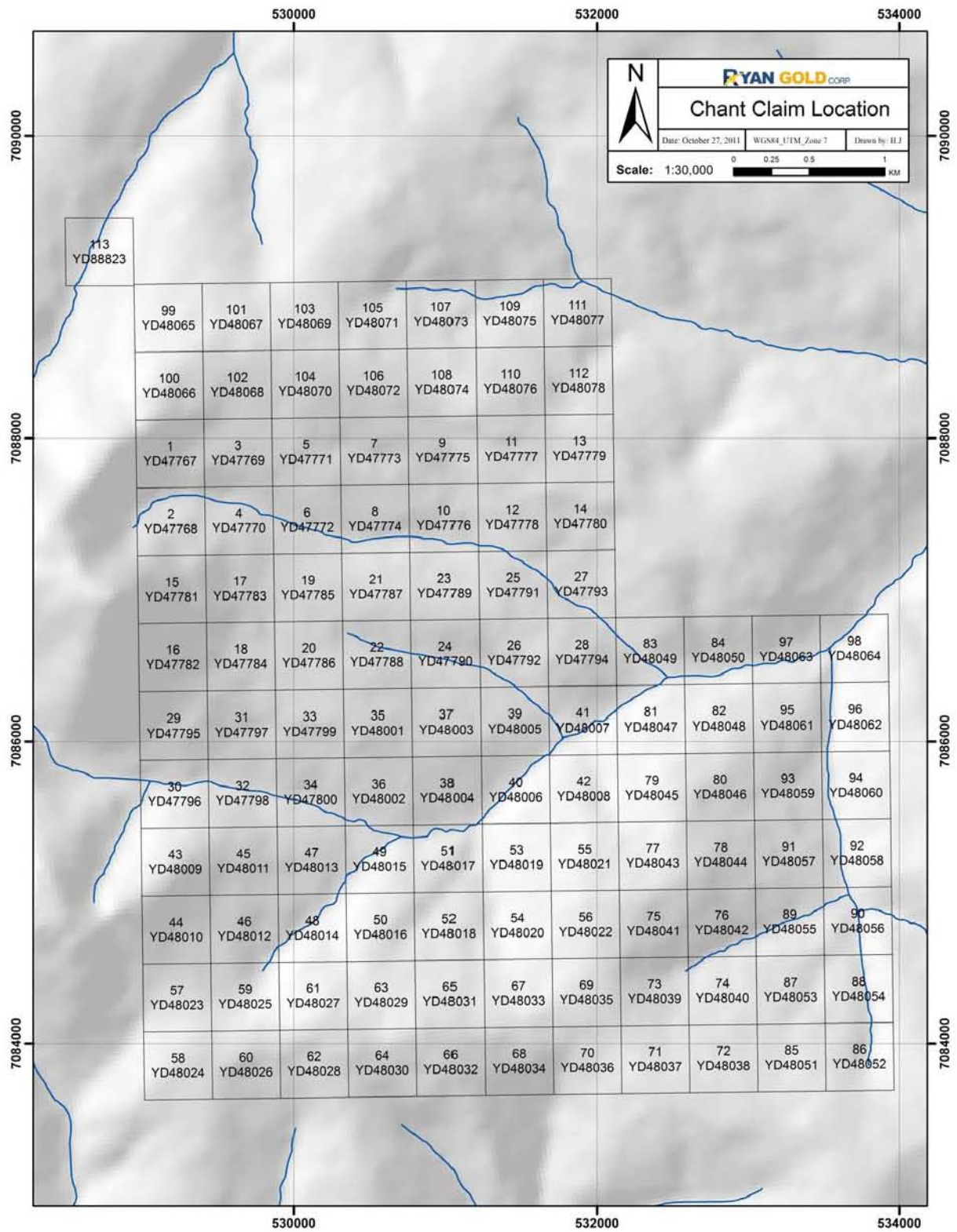


Figure 2. Chant Claim map

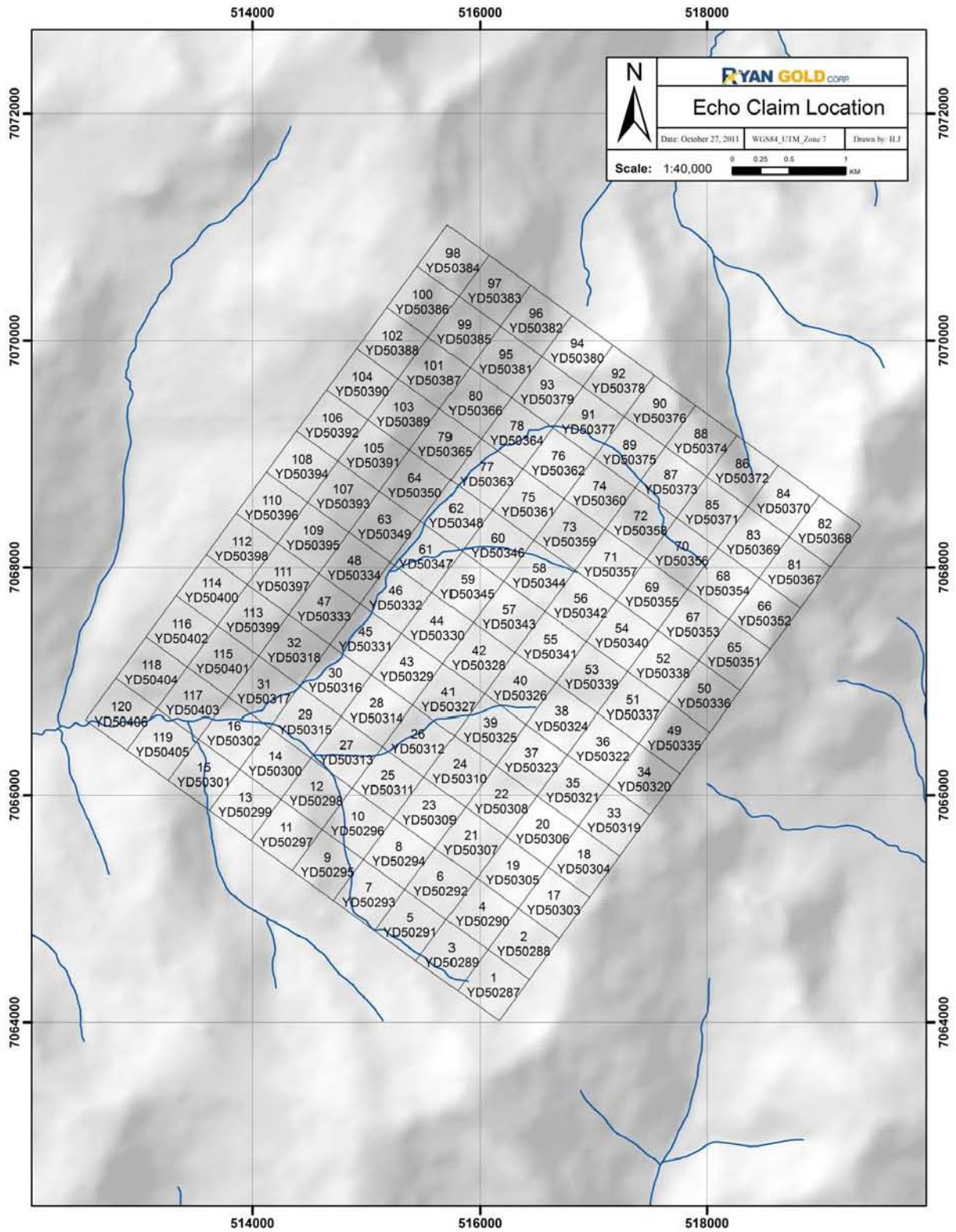


Figure 3. Echo Claim map

### 3. REGIONAL GEOLOGY

The Chant 1-112 claim group and Echo 1-120 claim group are located within the Yukon-Tanana Terrane in the western central Yukon. The Yukon-Tanana Terrane which is the largest of Yukon's terranes separated from North American ancient continental craton by the Tintina trench. The terrane is composed of metasedimentary, metaplutonic and metavolcanic rocks comprising Paleozoic aged Nisling assemblage, Nasina assemblage, Pelly gneiss and Nisutlin assemblage from oldest to youngest. The Nisling assemblage is a meta-sedimentary package of quartzite, quartz-mica schist and marble. The Nasina assemblage is composed of aforementioned meta-sediments with large amounts of carbon which makes the rock black and/or graphitic. Pelly Gneiss is strongly foliated with granitic composition and Nisutlin assemblage is characterized by quartz-mica schist.

Recent mapping of Stewart River area (NTS 115N, 115O) by Gordey et al. (2005 and 2006) has interpreted that the area comprises abundant Paleozoic metaplutonic and metavolcanic rocks representing two arcs; an older arc composed of Devonian-Mississippian amphibolite and subvolcanic intrusive complex (DMogg, DMoga, DMogt) built upon a siliciclastic foundation (DMps, DMq, DMcg, DMNq) and a Permian granitic orthogneiss (Pogg, Poga) and coeval metavolcanic rocks built on the previous arc. The Devonian and Mississippian aged Nasina assemblage structurally lies above or equivalent to the meta-siliciclastic unit (DMps) (Figure 4).

Aforementioned Paleozoic gneiss and schist are intruded by plugs and/or stocks of Cretaceous quartz monzonite and granodiorite (Kg) and Jurassic aged granodiorite (eJgd) which is unconformably overlain by massive andesite flows and breccias of Cretaceous Carmacks Group (uKv), with local occurrences of coarse clastic sedimentary rocks to conglomerate (IKcg) at the base of sequence.

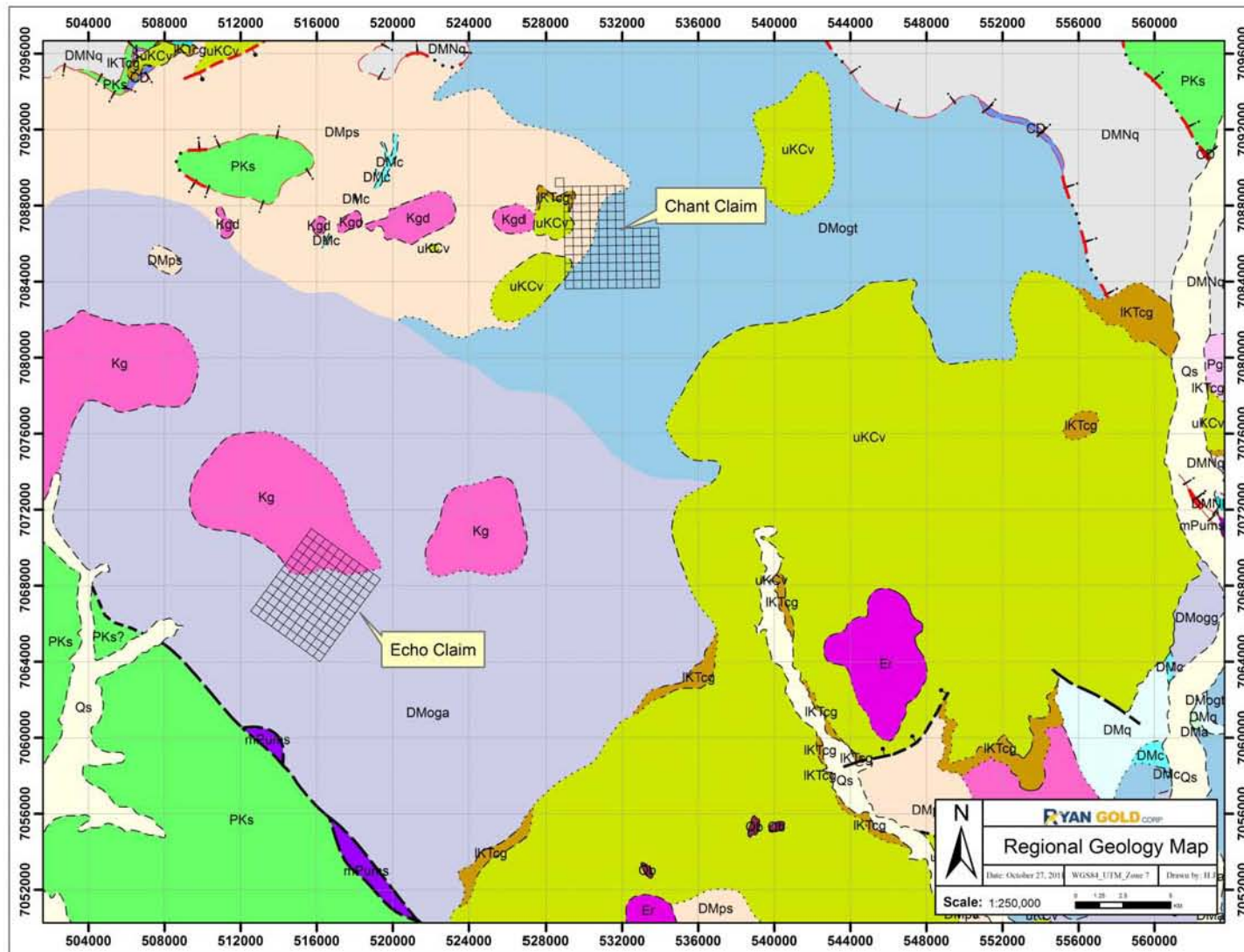


Figure 4. Regional Geology Map

## **4. WORK COMPLETED FOR THIS REPORT**

GroundTruth Exploration Inc of Dawson, Yukon Territory was contracted by Ryan Gold Inc. (a private company that merged with Valdez Gold Inc. to form Ryan Gold Corp. in December 2010) to conduct the regional ridge and spur soil geochemistry survey on the Chant and Echo claim groups. The soil geochemical survey comprised 191 soil samples collected from the Chant 1-112 claim group during 6 man days and 240 soil samples were collected from Echo 1-120 claim group during 8 man days from the period of July 29<sup>th</sup> to July 31<sup>st</sup> in 2010. The intent of the soil survey was to follow up Au anomaly in stream sediments including 167 ppb Au from a tributary of Enchantment Creek, 26 ppb Au from a tributary of Fifty Mile Creek on the Chant claim and up to 1g/t Au at Echo by the Geological Survey of Canada and previous explorers (Pautler, 2010). The Chant and Echo claim was accessed by helicopter which was provided by Transnorth Helicopters during the 2010 soil survey program. The total costs of for soil survey at Chant and Echo were \$11,664 and \$14,880, respectively.

### **4.1 Soil sampling method and analysis**

Soil samples were taken with one meter soil auger and a prospector pick where necessary. Soil samples were gathered from an average depth of approximately 60 centimeter ranging from 20cm to 110cm from B or C horizon soil. Soil sample locations were clearly marked in the field with pink flagging and aluminum tags. The sample number was inscribed on the aluminum tag and tied to a tree or shrub at shoulder height above sample site. The coordinates of sample location was collected by a Garmin Map76 GPS in UTM NAD 83. Sample description including color, depth, slope, sample quality, ground vegetation, tree cover and GPS coordinates were recorded in a Palm PDA data recorder.

Approximately 400-500 grams of soil was collected from every station spaced 50m apart on the traverse line and stored in kraft soil bags. All samples were brought back to Dawson City and air dried, repacked in rice bags and sent to ACME labs in Vancouver. Samples are analyzed by Aqua Regia ICP-MS for 36 element (Acme Labs 1DX-15 gram).

The sample locations of 191 soil samples collected from Chant claim and 240 soil samples collected from Echo claim are shown on Figure 5 and Figure 6.

### **4.2 Results and Interpretation**

Anomalous Au in soil from the 2010 ridge and spur soil survey was identified from the eastern flank of Mount Hart with Au values of 16 ppb and 19 ppb and southwest of Chant claim group with Au values of 21 ppb and 156 ppb (Figure 7 & Figure 8). In addition, relatively elevated Au value of up to 11 ppb was observed at the Echo claim group shown on Figure 7 and Figure 8. Detailed sample description and assay results from the 2010 soil survey are attached in Appendix I and II.

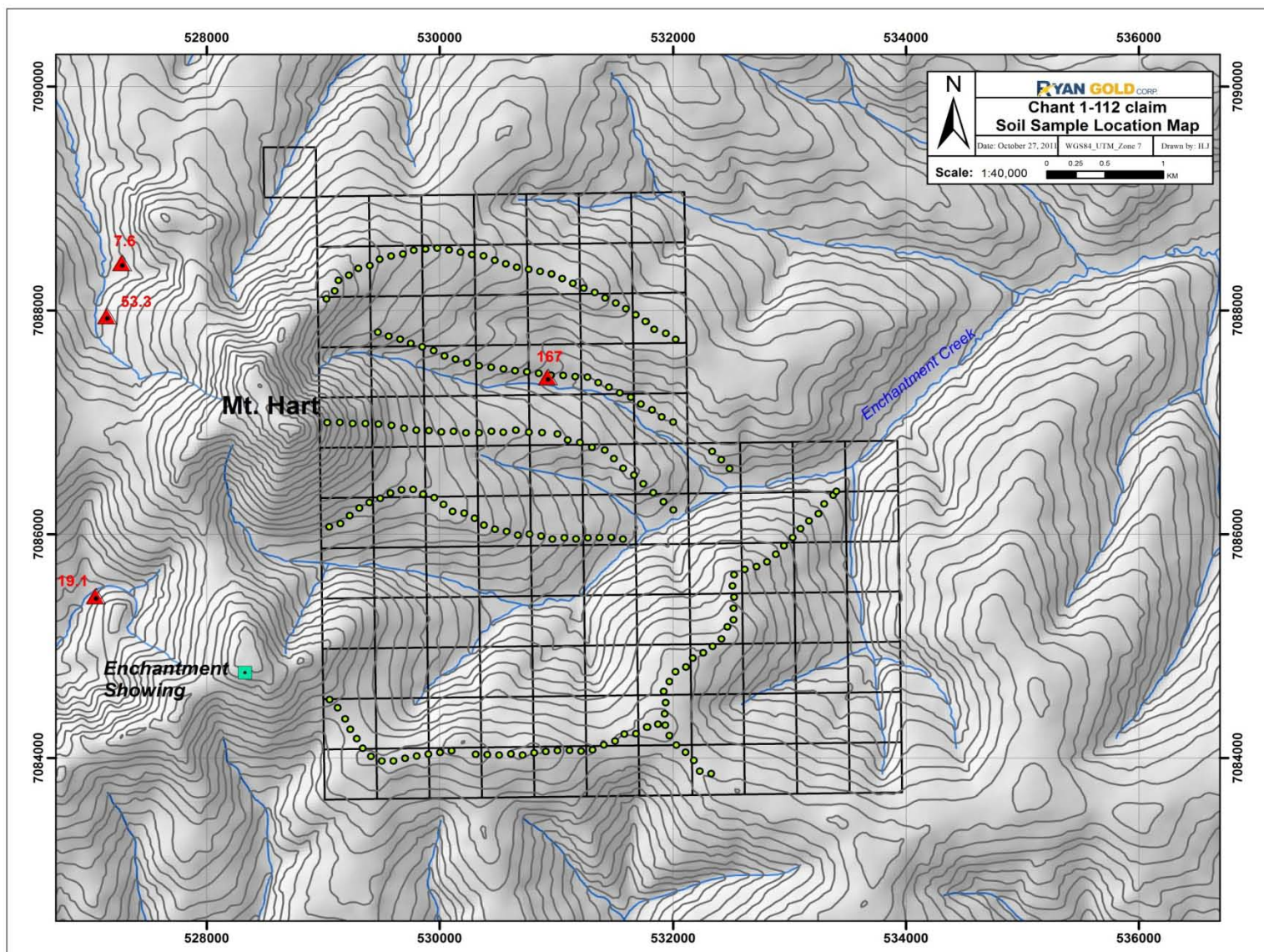


Figure 5. Chant Claim Soil sample location map

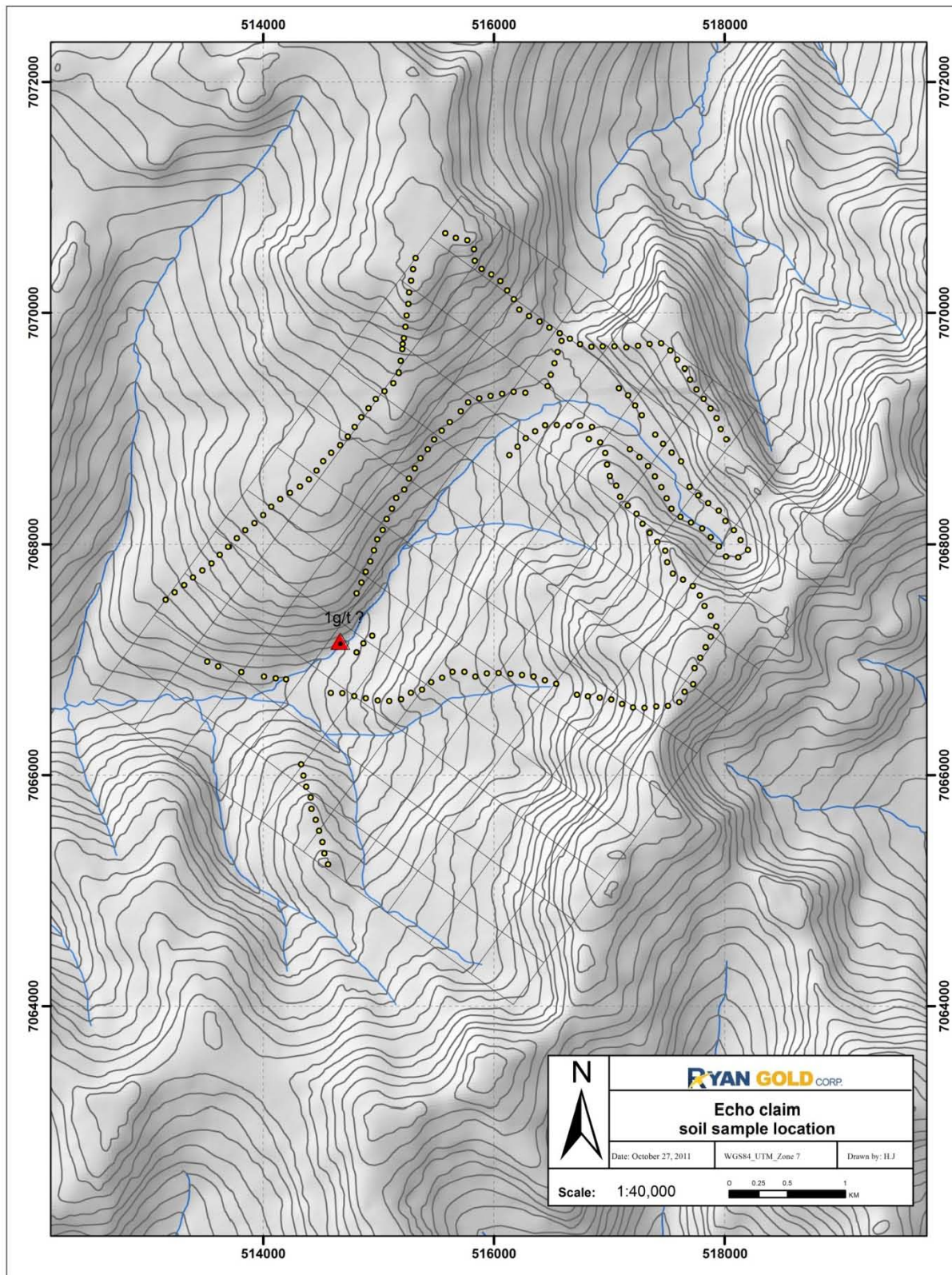


Figure 6. Echo Claim Soil sample location map

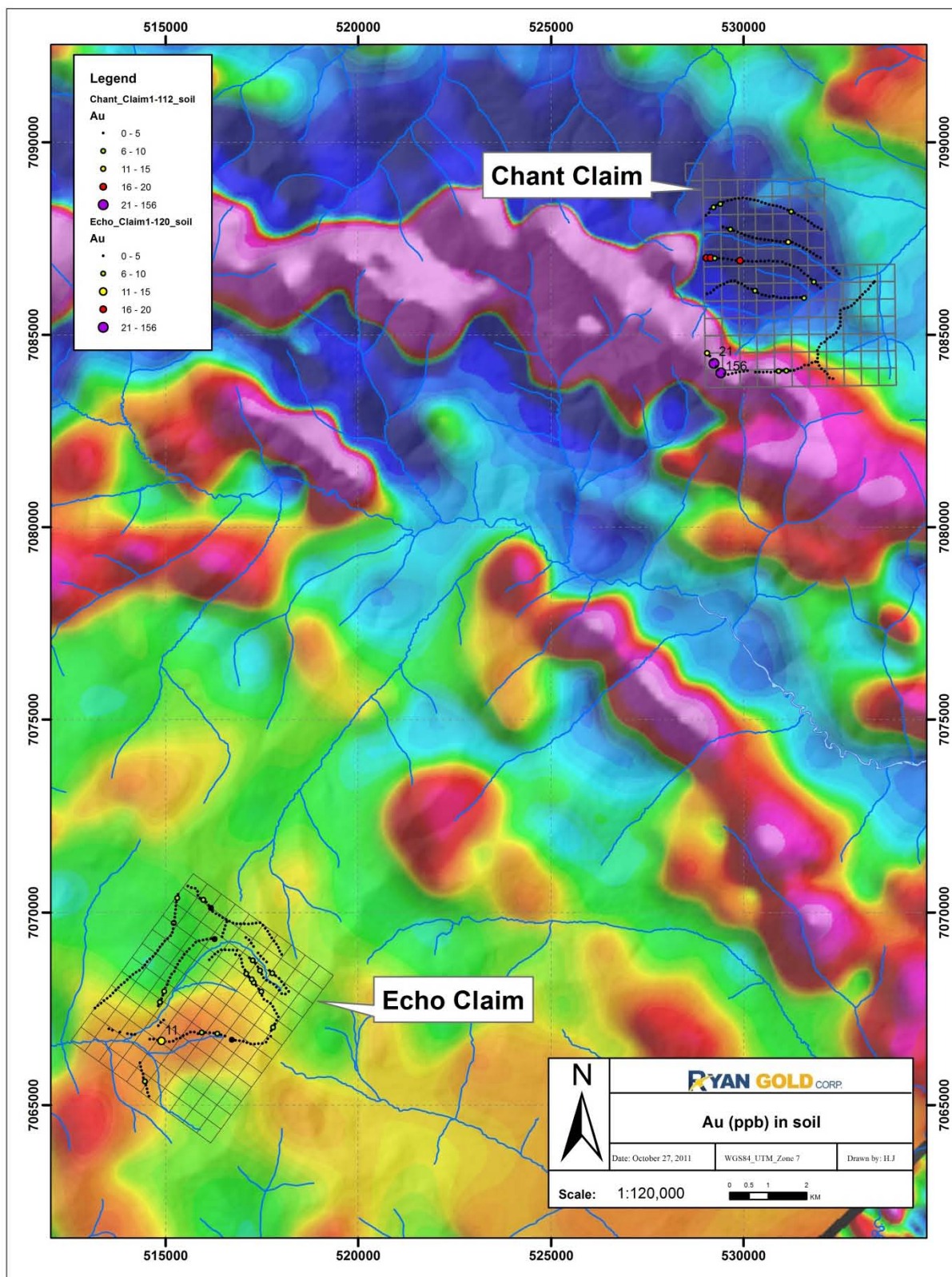


Figure 7. Au (ppb) in soil and Regional Mag intensity survey at Chant and Echo Claim

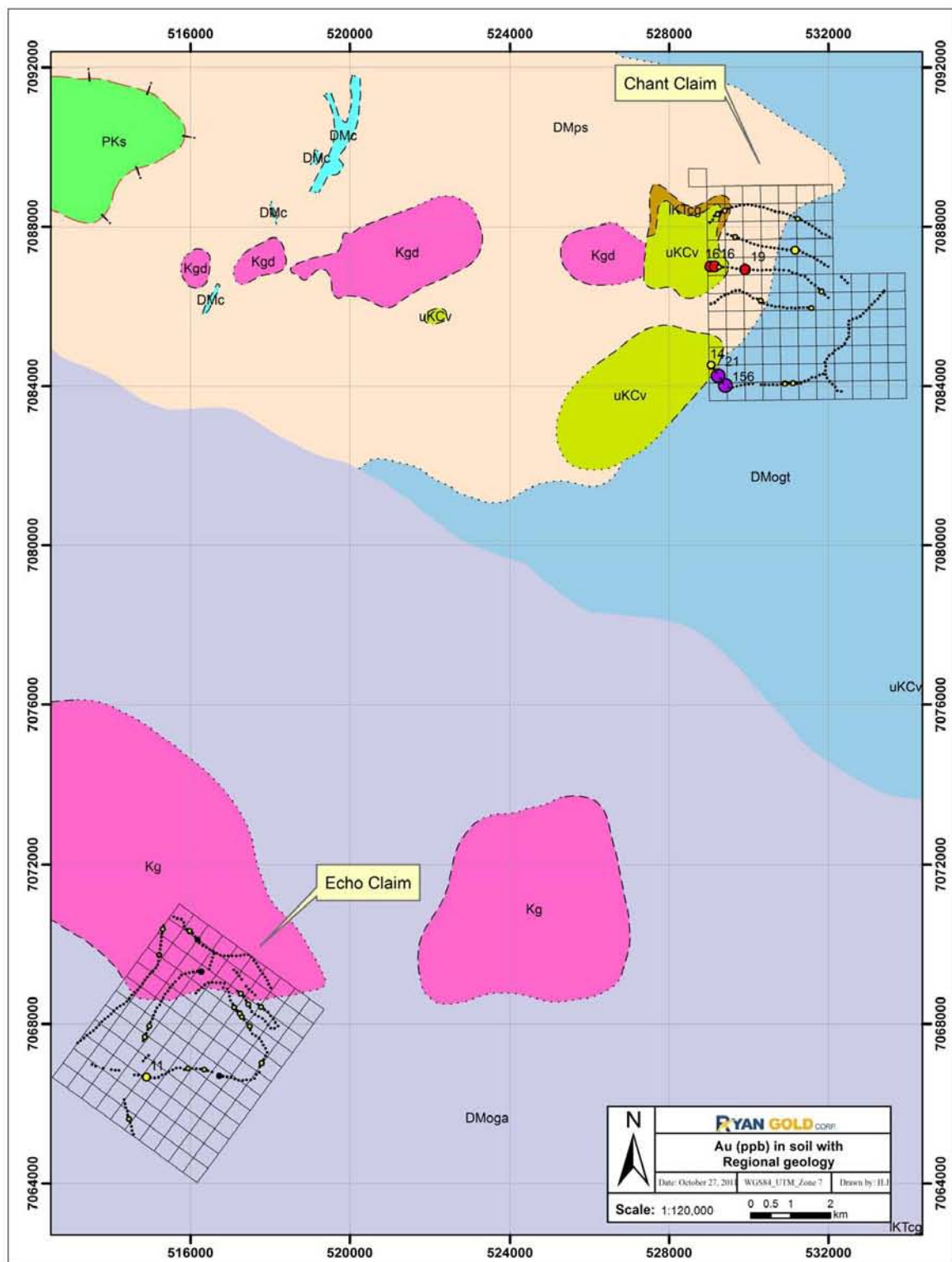


Figure 8. Au (ppb) in soil and regional geology at Chant and Echo Claim

The two soil anomalies identified in the SW of Chant Claim are on the northwest trending belt of strongest magnetic response on the regional Geologic Survey of Canada airborne magnetic map (Figure 7) which is interpreted to be Cretaceous intrusive body (Kg) (Pautler, 2010). In the contrary, the Cretaceous intrusion (Kg) at Echo claim demonstrated as low to moderate magnetic signature on the regional mag survey.

The correlation coefficients among geochem elements of Ag, As, Au, Bi, Cu, Hg, Mo, Pb, Sb and Zn for Echo and Chant soil are displayed on table 2 and table 3. The strongest correlation was found between Mo and As (70% of correlation) and Bi and Pb (70% of correlation) in soil at chant. The best correlation with Au is found in elements of Hg (49 %), Bi (41%) and Pb (34%) in soil at Chant. At Echo claim, strong correlation was observed between Mo-As (68%) and Sb-As (68%) in soil. The most noticeable correlation with Au is observed in the elements of Mo (27%), Sb (27%), and As (30%) in soil.

Similar geological setting as the White gold deposit of Kinross Gold Corp which is approximately 90km south-southeast of the claim combined with magnetic signature and Au in soil anomalies delineated from the 2010 soil survey indicates that the Chant and Echo claim has the potential to host mineral deposit similar to the White gold property. It is also noticed that the anomalous value up to 11ppb Au at Echo claim is located in the drainage basin of the 1g/t Au stream sediment and adjacent to the Cretaceous intrusive body.

## **5. CONCLUSIONS and RECOMMENDATIONS**

The 2010 ridge and spur soil geochemistry survey was carried out at Chant 1-112 claim and Echo 1-120 claim with the effort to follow up the anomalous Au in the stream sediment identified by Geological Survey of Canada. The soil survey successfully delineated two anomalous Au in soil in the southwest of Chant claim group and additional soil anomalies in the eastern flank of Mount Hart at Chant. In addition, Au in soil up to 11ppb at Echo claim was also identified from the survey. The favourable geology and regional magnetic signature of the soil anomaly area at both Chant and Echo is encouraging and warrants further investigation.

Further work including expansion of ridge and spur soil sampling, prospecting, rock sampling and geological mapping is recommended to better understand the cause of soil anomalies identified from the 2010 soil geochemistry survey at Chant and Echo. Trenching should also be considered over the anomaly areas if outcrop exposure is poor.

# Chant\_Soil Correlations Report

Project: Echo\_Chant

Creator: hjin

Project date: 14/11/2011

Report date: 14/11/2011

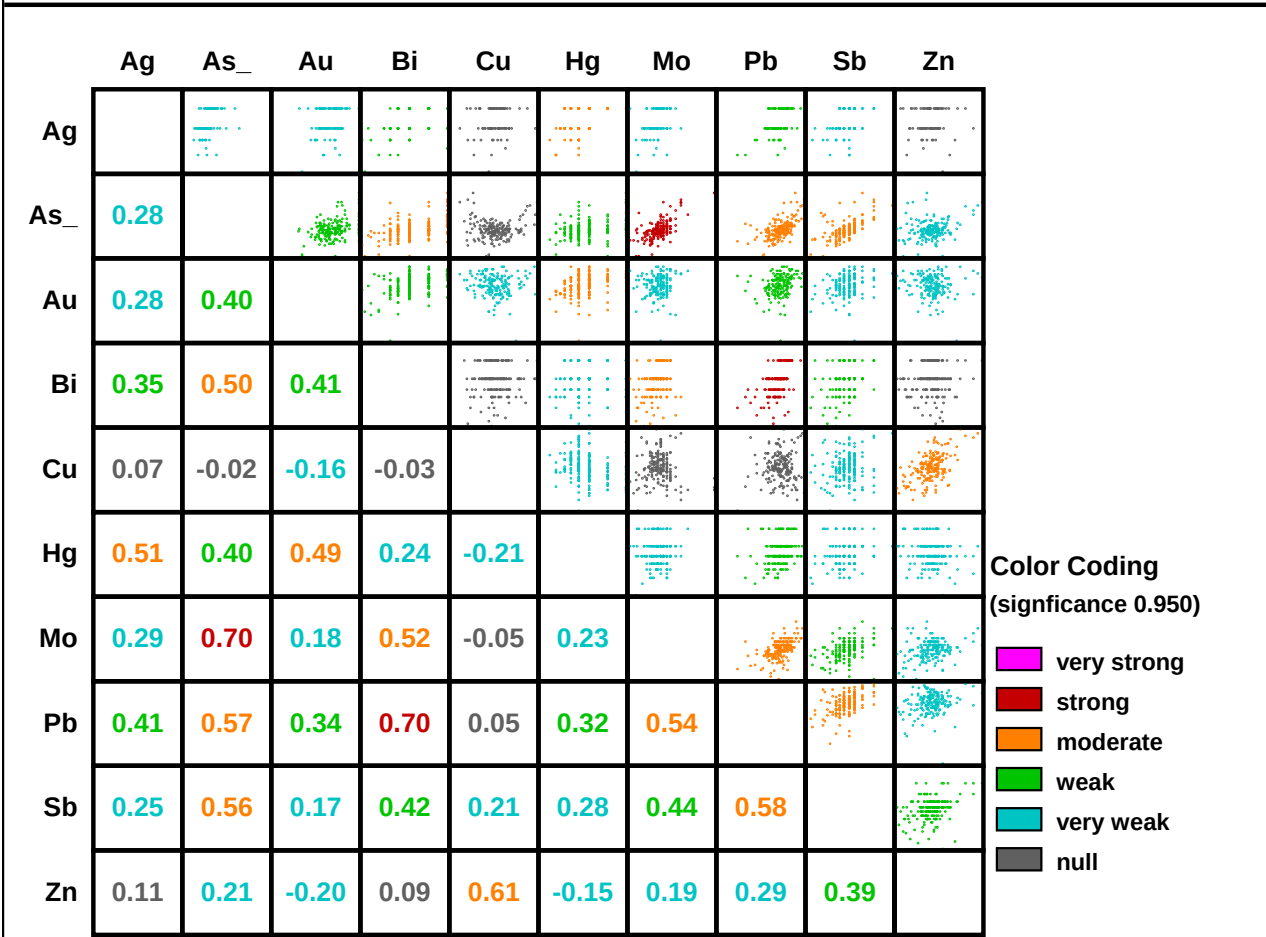


Table 2. Correlation among geochem assay values in soil at Chant

# Echo\_Soil Correlation Report

Project: Echo\_Chant

Creator: hjin

Project date: 14/11/2011

Report date: 14/11/2011

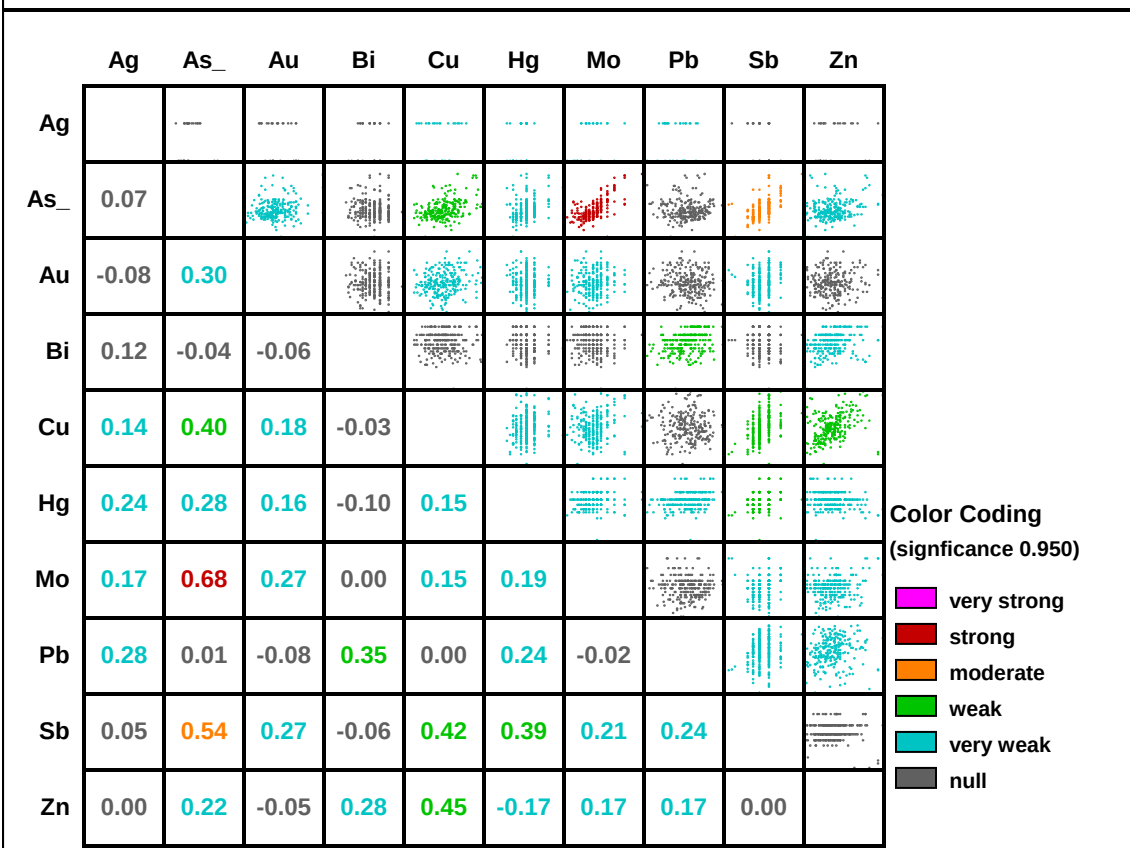


Table 3. Correlation among geochem assay values in soil at Echo

## 6. STATEMENT OF COSTS

**Table 4: Chant Claim 2010 soil sampling survey costs**

| <b>Item</b>        | <b>Units</b> |         | <b>Cost/Unit</b> | <b>Cost</b> |
|--------------------|--------------|---------|------------------|-------------|
| <b>Aircraft</b>    |              |         |                  |             |
| Helicopter         | 4            | hour    | \$1,150          | \$4,600     |
|                    |              |         |                  |             |
| <b>Personnel</b>   |              |         |                  |             |
| Soil sampling crew | 6            | man day | \$330            | \$1,980     |
|                    |              |         |                  |             |
| <b>Analysis</b>    |              |         |                  |             |
| Soils              | 191          | sample  | \$24             | \$4,584     |
|                    |              |         |                  |             |
| <b>Report</b>      |              |         |                  | \$500       |
|                    |              |         |                  |             |
| <b>Total</b>       |              |         |                  | \$11,664    |

**Table 5: Echo Claim 2010 soil sampling survey costs**

| <b>Item</b>        | <b>Units</b> |         | <b>Cost/Unit</b> | <b>Cost</b> |
|--------------------|--------------|---------|------------------|-------------|
| <b>Aircraft</b>    |              |         |                  |             |
| Helicopter         | 5.2          | hour    | \$1,150          | \$5,980     |
|                    |              |         |                  |             |
| <b>Personnel</b>   |              |         |                  |             |
| Soil sampling crew | 8            | man day | \$330            | \$2,640     |
|                    |              |         |                  |             |
| <b>Analysis</b>    |              |         |                  |             |
| Soils              | 240          | sample  | \$24             | \$5,760     |
|                    |              |         |                  |             |
| <b>Report</b>      |              |         |                  | \$500       |
|                    |              |         |                  |             |
| <b>Total</b>       |              |         |                  | \$14,880    |

## **7. STATEMENT OF QUALIFICATIONS**

I, Hua Jin, do hereby declare that:

1. I am currently employed as Senior Project Geologist for Ryan Gold Corp. of Suite 600 – 666 Burrard Street, Vancouver, British Columbia V6C 2X8.
2. I am a graduate of the Peking University with a Bachelor of Science Degree (2003) in Earth Science and Master of Science Degree (2005) in Earth Science from the University of Western Ontario.
3. From 2006 to present, I have practised my profession as a geologist in Nunavut and Yukon Territory in Canada, Niamey in Niger and Nevada in United States for 6 years since graduation.

Hua Jin, M.Sc.

## 8. REFERENCES

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## **APPENDIX I**

### **Soil Sample Descriptions and Location Data – Chant Claim**

| SampleID  | Type | UTM Easting | UTM Northing | UTM_Zone | Sample Date | Soil_Colour     | Site_Slope     | Sample_Depth (cm) | Sample_Quality | Horizon | Site_Vegetation | Site_Cover    | Sample_Note1 | Sample_Note2     |
|-----------|------|-------------|--------------|----------|-------------|-----------------|----------------|-------------------|----------------|---------|-----------------|---------------|--------------|------------------|
| CHA111730 | Soil | 531926      | 7084394      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111731 | Soil | 531935      | 7084495      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 80                | Excellent      | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111732 | Soil | 531919      | 7084594      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 80                | Good           | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111733 | Soil | 531967      | 7084682      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 70                | Good           | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111734 | Soil | 532019      | 7084770      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111735 | Soil | 532109      | 7084813      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 60                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111877 | Soil | 532168      | 7084893      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111878 | Soil | 532258      | 7084939      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111879 | Soil | 532338      | 7084998      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Subtle Slope   | 60                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111880 | Soil | 532414      | 7085063      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 100               | Excellent      | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111881 | Soil | 532466      | 7085171      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Subtle Slope   | 40                | Poor           | B       | Buckbrush       | Moss Mat      | Coarse       | Rocky            |
| CHA111882 | Soil | 532517      | 7085235      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 50                | Good           | B       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111883 | Soil | 532517      | 7085337      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 50                | Good           | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111884 | Soil | 532522      | 7085438      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 80                | Excellent      | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111885 | Soil | 532509      | 7085538      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 70                | Excellent      | C       | Buckbrush       | Moss Mat      | Coarse       |                  |
| CHA111886 | Soil | 532522      | 7085638      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 60                | Good           | C       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111887 | Soil | 532614      | 7085684      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | C       | Black Spruce    | Bare Soil     | Coarse       |                  |
| CHA111888 | Soil | 532715      | 7085710      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | C       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111889 | Soil | 532806      | 7085752      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 60                | Good           | C       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111890 | Soil | 532882      | 7085821      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 60                | Good           | C       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111891 | Soil | 532952      | 7085896      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 60                | Good           | C       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111892 | Soil | 533025      | 7085970      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111893 | Soil | 533094      | 7086048      | NAD83-Z7 | 31/07/2010  | Reddish Brown   | Subtle Slope   | 40                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111894 | Soil | 533166      | 7086119      | NAD83-Z7 | 31/07/2010  | Grey            | Pronounced Slo | 50                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111895 | Soil | 533248      | 7086183      | NAD83-Z7 | 31/07/2010  | Grey            | Pronounced Slo | 40                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       |                  |
| CHA111896 | Soil | 533297      | 7086271      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 50                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       | Partially Frozen |
| CHA111897 | Soil | 533374      | 7086349      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 50                | Good           | B       | Black Spruce    | Moss Mat      | Coarse       | Partially Frozen |
| CHA111898 | Soil | 533402      | 7086383      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 50                | Good           | B       | Black Spruce    | Reindeer Moss | Coarse       | Partially Frozen |
| CHA111930 | Soil | 529469      | 7087805      | NAD83-Z7 | 31/07/2010  | Light Brown     | Pronounced Slo | 60                | Excellent      | C       | Dwarf Birch     | Grass Cover   | Coarse       |                  |
| CHA111931 | Soil | 529562      | 7087770      | NAD83-Z7 | 31/07/2010  | Light Brown     | Pronounced Slo | 60                | Good           | C       | Dwarf Birch     | Grass Cover   | Coarse       |                  |
| CHA111932 | Soil | 529660      | 7087742      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 70                | Excellent      | C       | Dwarf Birch     | Grass Cover   | Coarse       |                  |
| CHA111933 | Soil | 529753      | 7087705      | NAD83-Z7 | 31/07/2010  | Dark Brown      | Pronounced Slo | 60                | Good           | B       | Black Spruce    | Grass Cover   | Coarse       |                  |
| CHA111934 | Soil | 529850      | 7087675      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 40                | Good           | B       | Dwarf Birch     | Grass Cover   | Coarse       |                  |
| CHA111935 | Soil | 529948      | 7087640      | NAD83-Z7 | 31/07/2010  | Chocolate Brown | Pronounced Slo | 50                | Good           | C       | Dwarf Birch     | Grass Cover   | Sand         |                  |
| CHA111936 | Soil | 530042      | 7087594      | NAD83-Z7 | 31/07/2010  | Reddish Yellow  | Pronounced Slo | 80                | Excellent      | C       | Dwarf Birch     | Moss Mat      | Coarse       |                  |

|           |      |        |         |          |            |                 |                |    |           |   |               |               |        |           |
|-----------|------|--------|---------|----------|------------|-----------------|----------------|----|-----------|---|---------------|---------------|--------|-----------|
| CHA111937 | Soil | 530137 | 7087564 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 60 | Good      | C | Dwarf Birch   | Moss Mat      | Coarse | Wet Soil  |
| CHA111938 | Soil | 530235 | 7087531 | NAD83-Z7 | 31/07/2010 | Reddish Yellow  | Pronounced Slo | 30 | Good      | B | Dwarf Birch   | Thin Moss Cov | Coarse |           |
| CHA111939 | Soil | 530338 | 7087506 | NAD83-Z7 | 31/07/2010 | Reddish Yellow  | Pronounced Slo | 30 | Good      | B | Dwarf Birch   | Thin Moss Cov | Coarse |           |
| CHA111940 | Soil | 530444 | 7087491 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 40 | Good      | B | Dwarf Birch   | Thin Moss Cov | Coarse |           |
| CHA111941 | Soil | 530549 | 7087476 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 40 | Excellent | C | White Spruce  | Thin Moss Cov | Coarse |           |
| CHA111942 | Soil | 530648 | 7087461 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 60 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111943 | Soil | 530749 | 7087451 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 60 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111944 | Soil | 530851 | 7087437 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Pronounced Slo | 60 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111945 | Soil | 530956 | 7087421 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 60 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111946 | Soil | 531062 | 7087419 | NAD83-Z7 | 31/07/2010 | Grey            | Subtle Slope   | 60 | Excellent | C | Black Spruce  | Moss Mat      | Coarse |           |
| CHA111947 | Soil | 531164 | 7087409 | NAD83-Z7 | 31/07/2010 | Grey            | Subtle Slope   | 70 | Poor      | C | Black Spruce  | Moss Mat      | Clay   |           |
| CHA111948 | Soil | 531270 | 7087404 | NAD83-Z7 | 31/07/2010 | Reddish Yellow  | Subtle Slope   | 50 | Excellent | C | Black Spruce  | Moss Mat      | Coarse |           |
| CHA111949 | Soil | 531362 | 7087355 | NAD83-Z7 | 31/07/2010 | Reddish Yellow  | Subtle Slope   | 60 | Excellent | C | Black Spruce  | Reindeer Mos  | Coarse |           |
| CHA111950 | Soil | 531454 | 7087313 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 70 | Excellent | C | Black Spruce  | Reindeer Mos  | Coarse |           |
| CHA111983 | Soil | 531547 | 7087263 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 50 | Good      | C | Black Spruce  | Reindeer Mos  | Coarse |           |
| CHA111984 | Soil | 531642 | 7087224 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 80 | Excellent | C | Black Spruce  | Moss Mat      | Coarse |           |
| CHA111985 | Soil | 531728 | 7087163 | NAD83-Z7 | 31/07/2010 | Dark Brown      | Pronounced Slo | 50 | Good      | B | Black Spruce  | Moss Mat      | Coarse |           |
| CHA111986 | Soil | 531818 | 7087110 | NAD83-Z7 | 31/07/2010 | Dark Brown      | Pronounced Slo | 50 | Good      | B | Black Spruce  | Moss Mat      | Coarse |           |
| CHA111987 | Soil | 531901 | 7087048 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 70 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111988 | Soil | 532000 | 7087003 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 70 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111992 | Soil | 532334 | 7086739 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Pronounced Slo | 50 | Excellent | C | White Spruce  | Needle Cover  | Coarse |           |
| CHA111993 | Soil | 532413 | 7086665 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Pronounced Slo | 60 | Excellent | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA111994 | Soil | 532484 | 7086586 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Pronounced Slo | 60 | Good      | C | White Spruce  | Moss Mat      | Coarse |           |
| CHA112335 | Soil | 532326 | 7083859 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 50 | Good      | B | Subalpine Fir | Moss Mat      | Coarse |           |
| CHA112336 | Soil | 532228 | 7083881 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 60 | Excellent | C | Buckbrush     | Moss Mat      | Coarse |           |
| CHA112337 | Soil | 532178 | 7083978 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat           | 80 | Excellent | C | Buckbrush     | Moss Mat      | Coarse |           |
| CHA112338 | Soil | 532178 | 7083978 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat           | 80 | Excellent | C | Buckbrush     | Moss Mat      | Coarse | DUPLICATE |
| CHA112339 | Soil | 532107 | 7084051 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope   | 70 | Excellent | C | Buckbrush     | Moss Mat      | Coarse |           |
| CHA112340 | Soil | 532027 | 7084115 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope   | 50 | Excellent | C | Buckbrush     | Moss Mat      | Coarse |           |
| CHA112341 | Soil | 531968 | 7084199 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope   | 40 | Good      | B | Buckbrush     | Moss Mat      | Coarse |           |
| CHA112342 | Soil | 531932 | 7084292 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope   | 60 | Excellent | C | Buckbrush     | Moss Mat      | Coarse |           |
| CHA128625 | Soil | 529027 | 7088103 | NAD83-Z7 | 31/07/2010 | Dark Brown      | Flat           | 40 | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128626 | Soil | 529099 | 7088174 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Subtle Slope   | 40 | Excellent | C | No Tree Cover | Rock Cover    | Coarse |           |
| CHA128627 | Soil | 529130 | 7088269 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 40 | Poor      | B | No Tree Cover | Rock Cover    | N/A    |           |
| CHA128628 | Soil | 529221 | 7088315 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 80 | Good      | B | No Tree Cover | Thin Moss Cov | N/A    |           |
| CHA128629 | Soil | 529302 | 7088376 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 40 | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128630 | Soil | 529400 | 7088401 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 60 | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128631 | Soil | 529485 | 7088457 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope   | 40 | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |

|           |      |        |         |          |            |                 |              |     |           |   |               |               |        |           |
|-----------|------|--------|---------|----------|------------|-----------------|--------------|-----|-----------|---|---------------|---------------|--------|-----------|
| CHA128632 | Soil | 529583 | 7088485 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128633 | Soil | 529684 | 7088505 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 50  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128634 | Soil | 529778 | 7088538 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 50  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128635 | Soil | 529879 | 7088548 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 30  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128636 | Soil | 529979 | 7088556 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128637 | Soil | 530080 | 7088542 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128638 | Soil | 530179 | 7088522 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128639 | Soil | 530277 | 7088500 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 70  | Good      | B | No Tree Cover | Thin Moss Cov | Coarse |           |
| CHA128640 | Soil | 530377 | 7088487 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 70  | Excellent | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128641 | Soil | 530473 | 7088448 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Flat         | 50  | Good      | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128642 | Soil | 530569 | 7088417 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Flat         | 50  | Excellent | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128643 | Soil | 530664 | 7088386 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Flat         | 40  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128644 | Soil | 530765 | 7088367 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128645 | Soil | 530864 | 7088348 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128646 | Soil | 530962 | 7088325 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Flat         | 100 | Good      | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128647 | Soil | 530962 | 7088326 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Flat         | 100 | Good      | C | Buckbrush     | Thin Moss Cov | Coarse | DUPLICATE |
| CHA128648 | Soil | 531053 | 7088284 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128649 | Soil | 531145 | 7088242 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128650 | Soil | 531238 | 7088200 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Flat         | 40  | Good      | C | Buckbrush     | Thin Moss Cov | Coarse |           |
| CHA128651 | Soil | 531332 | 7088160 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Subtle Slope | 40  | Good      | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128652 | Soil | 531422 | 7088112 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Subtle Slope | 50  | Good      | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128653 | Soil | 531513 | 7088065 | NAD83-Z7 | 31/07/2010 | Reddish Yellow  | Subtle Slope | 70  | Excellent | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128654 | Soil | 531599 | 7088015 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Flat         | 50  | Good      | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128655 | Soil | 531684 | 7087960 | NAD83-Z7 | 31/07/2010 | Reddish Orange  | Flat         | 50  | Excellent | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128656 | Soil | 531767 | 7087902 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope | 50  | Excellent | B | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128657 | Soil | 531837 | 7087830 | NAD83-Z7 | 31/07/2010 | Reddish Brown   | Subtle Slope | 40  | Good      | C | Old Burn      | Thin Moss Cov | Coarse |           |
| CHA128968 | Soil | 529054 | 7084522 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128969 | Soil | 529124 | 7084449 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128970 | Soil | 529188 | 7084349 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128971 | Soil | 529232 | 7084256 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128972 | Soil | 529288 | 7084173 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128973 | Soil | 529339 | 7084086 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Coarse |           |
| CHA128974 | Soil | 529410 | 7084013 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Fine   |           |
| CHA128975 | Soil | 529503 | 7083973 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Fine   |           |
| CHA128976 | Soil | 529604 | 7083972 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Good      | B | No Tree Cover | Moss Mat      | Fine   |           |
| CHA128977 | Soil | 529703 | 7083996 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50  | Poor      | B | No Tree Cover | Moss Mat      | Fine   |           |

|           |      |        |         |          |            |                 |              |    |      |   |               |                 |           |                  |
|-----------|------|--------|---------|----------|------------|-----------------|--------------|----|------|---|---------------|-----------------|-----------|------------------|
| CHA128978 | Soil | 529803 | 7084016 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128979 | Soil | 529903 | 7084034 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128980 | Soil | 530003 | 7084049 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128981 | Soil | 530103 | 7084064 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128983 | Soil | 530309 | 7084032 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128984 | Soil | 530410 | 7084029 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128985 | Soil | 530511 | 7084025 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128986 | Soil | 530612 | 7084035 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128987 | Soil | 530712 | 7084026 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128988 | Soil | 530812 | 7084046 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128989 | Soil | 530913 | 7084058 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128990 | Soil | 531013 | 7084066 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128991 | Soil | 531115 | 7084067 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128992 | Soil | 531215 | 7084060 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128993 | Soil | 531314 | 7084072 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128994 | Soil | 531410 | 7084117 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128995 | Soil | 531506 | 7084150 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128996 | Soil | 531587 | 7084213 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128997 | Soil | 531687 | 7084216 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128998 | Soil | 531780 | 7084276 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA128999 | Soil | 531869 | 7084302 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | Fine      |                  |
| CHA129000 | Soil | 531869 | 7084302 | NAD83-Z7 | 31/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | No Tree Cover | Moss Mat        | DUPLICATE |                  |
| CHA85646  | Soil | 529052 | 7086065 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Poor | B | Buckbrush     | Reindeer Moss   | N/A       |                  |
| CHA85647  | Soil | 529148 | 7086094 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good | B | Buckbrush     | Reindeer Moss   | Sand      | Transported Soil |
| CHA85648  | Soil | 529228 | 7086165 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Poor | B | Buckbrush     | Grass Cover     | N/A       |                  |
| CHA85649  | Soil | 529310 | 7086234 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good | B | Buckbrush     | Grass Cover     | N/A       |                  |
| CHA85650  | Soil | 529397 | 7086283 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | Buckbrush     | Grass Cover     | N/A       |                  |
| CHA85651  | Soil | 529490 | 7086319 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | Buckbrush     | Moss Mat        | Coarse    |                  |
| CHA85652  | Soil | 529578 | 7086367 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good | B | Buckbrush     | Moss Mat        | Coarse    |                  |
| CHA85653  | Soil | 529673 | 7086396 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 50 | Good | B | Buckbrush     | Moss Mat        | Coarse    |                  |
| CHA85654  | Soil | 529773 | 7086399 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 50 | Good | B | Buckbrush     | Moss Mat        | Coarse    |                  |
| CHA85655  | Soil | 529860 | 7086353 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 80 | Good | B | Buckbrush     | Thin Moss Cover | Coarse    |                  |
| CHA85656  | Soil | 529857 | 7086357 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 80 | Good | B | Buckbrush     | Thin Moss Cover | Coarse    | DUPLICATE        |
| CHA85657  | Soil | 529954 | 7086327 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good | B | Buckbrush     | Thin Moss Cover | Coarse    |                  |
| CHA85658  | Soil | 530034 | 7086266 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 50 | Good | C | Buckbrush     | Thin Moss Cover | Coarse    |                  |
| CHA85659  | Soil | 530112 | 7086203 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope | 40 | Good | C | Buckbrush     | Thin Moss Cover | Coarse    |                  |
| CHA85660  | Soil | 530211 | 7086188 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good | B | Buckbrush     | Thin Moss Cover | Coarse    |                  |
| CHA85661  | Soil | 530301 | 7086142 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Poor | B | Buckbrush     | Thin Moss Cover | Coarse    |                  |

|          |      |        |         |          |            |                 |                |     |           |   |               |               |        |              |
|----------|------|--------|---------|----------|------------|-----------------|----------------|-----|-----------|---|---------------|---------------|--------|--------------|
| CHA85662 | Soil | 530381 | 7086081 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 30  | Poor      | B | Buckbrush     | Thin Moss Cov | Coarse |              |
| CHA85663 | Soil | 530476 | 7086044 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Good      | C | Buckbrush     | Thin Moss Cov | Coarse |              |
| CHA85664 | Soil | 530575 | 7086023 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 80  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |              |
| CHA85665 | Soil | 530672 | 7085991 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope   | 30  | Good      | B | Buckbrush     | Thin Moss Cov | Coarse |              |
| CHA85666 | Soil | 530772 | 7086000 | NAD83-Z7 | 30/07/2010 | Reddish Orange  | Subtle Slope   | 60  | Excellent | C | Buckbrush     | Thin Moss Cov | Coarse |              |
| CHA85667 | Soil | 530871 | 7085982 | NAD83-Z7 | 30/07/2010 | Reddish Yellow  | Subtle Slope   | 110 | Excellent | C | Buckbrush     | Reindeer Mos  | Coarse |              |
| CHA85668 | Soil | 530969 | 7085956 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 70  | Poor      | B | Black Spruce  | Reindeer Mos  | Mud    |              |
| CHA85669 | Soil | 531071 | 7085968 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Good      | B | Black Spruce  | Reindeer Mos  | Coarse |              |
| CHA85670 | Soil | 531172 | 7085957 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 50  | Good      | B | Black Spruce  | Reindeer Mos  | Coarse |              |
| CHA85671 | Soil | 531373 | 7085970 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 70  | Good      | B | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85672 | Soil | 531474 | 7085971 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 50  | Good      | B | Black Spruce  | Moss Mat      | Coarse | Mud          |
| CHA85673 | Soil | 531575 | 7085956 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 50  | Poor      | B | Black Spruce  | Moss Mat      | Mud    |              |
| CHA85675 | Soil | 531273 | 7085967 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 70  | Good      | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85752 | Soil | 529035 | 7086998 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Steep          | 30  | Good      | C | No Tree Cover | Rock Cover    | Rocky  |              |
| CHA85753 | Soil | 529143 | 7086999 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Steep          | 40  | Good      | C | No Tree Cover | Thin Moss Cov | Rocky  | Organic 10%  |
| CHA85754 | Soil | 529252 | 7086989 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Steep          | 40  | Good      | C | No Tree Cover | Thin Moss Cov | Rocky  | Quartz Chips |
| CHA85755 | Soil | 529363 | 7086988 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Steep          | 50  | Good      | C | No Tree Cover | Moss Mat      | Rocky  | Coarse       |
| CHA85756 | Soil | 529474 | 7086983 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 50  | Good      | C | No Tree Cover | Moss Mat      | Rocky  | Coarse       |
| CHA85757 | Soil | 529587 | 7086972 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 50  | Excellent | C | Buckbrush     | Moss Mat      | Rocky  | Coarse       |
| CHA85758 | Soil | 529694 | 7086947 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 50  | Good      | C | Buckbrush     | Moss Mat      | Rocky  | Loess        |
| CHA85759 | Soil | 529800 | 7086930 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 60  | Excellent | C | Buckbrush     | Grass Cover   | Rocky  | Coarse       |
| CHA85760 | Soil | 529908 | 7086926 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 60  | Good      | C | Buckbrush     | Grass Cover   | Rocky  | Coarse       |
| CHA85761 | Soil | 530015 | 7086915 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 60  | Excellent | C | Buckbrush     | Grass Cover   | Coarse | Wet Soil     |
| CHA85764 | Soil | 530120 | 7086919 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced Slo | 60  | Excellent | C | Buckbrush     | Grass Cover   | Coarse | Wet Soil     |
| CHA85765 | Soil | 530226 | 7086906 | NAD83-Z7 | 30/07/2010 | Grey            | Subtle Slope   | 90  | Excellent | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85766 | Soil | 530338 | 7086906 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 70  | Excellent | C | Buckbrush     | Grass Cover   | Coarse |              |
| CHA85767 | Soil | 530445 | 7086919 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Buckbrush     | Moss Mat      | Coarse |              |
| CHA85768 | Soil | 530547 | 7086910 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Buckbrush     | Moss Mat      | Coarse | Clay         |
| CHA85769 | Soil | 530655 | 7086929 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 50  | Excellent | C | Black Spruce  | Frost Boil    | Coarse |              |
| CHA85770 | Soil | 530767 | 7086910 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 50  | Good      | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85771 | Soil | 530880 | 7086907 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope   | 50  | Excellent | C | Black Spruce  | Frost Boil    | Coarse |              |
| CHA85772 | Soil | 531012 | 7086896 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Black Spruce  | Frost Boil    | Coarse |              |
| CHA85773 | Soil | 531100 | 7086841 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Buckbrush     | Moss Mat      | Coarse |              |
| CHA85774 | Soil | 531205 | 7086819 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85775 | Soil | 531309 | 7086777 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope   | 60  | Excellent | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85776 | Soil | 531418 | 7086751 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 40  | Good      | C | Black Spruce  | Moss Mat      | Coarse | Rocky        |
| CHA85777 | Soil | 531496 | 7086675 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Black Spruce  | Moss Mat      | Coarse |              |
| CHA85778 | Soil | 531576 | 7086589 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope   | 60  | Excellent | C | Black Spruce  | Moss Mat      | Coarse |              |

|          |      |        |         |          |            |                 |                  |    |           |   |              |               |                  |                  |
|----------|------|--------|---------|----------|------------|-----------------|------------------|----|-----------|---|--------------|---------------|------------------|------------------|
| CHA85779 | Soil | 531669 | 7086528 | NAD83-27 | 30/07/2010 | Chocolate Brown | Subtle Slope     | 60 | Excellent | C | Birch Forest | Moss Mat      | Coarse           |                  |
| CHA85780 | Soil | 531749 | 7086451 | NAD83-27 | 30/07/2010 | Chocolate Brown | Subtle Slope     | 50 | Excellent | C | Poplar       | Moss Mat      | Coarse           |                  |
| CHA85781 | Soil | 531828 | 7086371 | NAD83-27 | 30/07/2010 | Chocolate Brown | Subtle Slope     | 70 | Excellent | C | White Spruce | Moss Mat      | Coarse           |                  |
| CHA85782 | Soil | 531916 | 7086290 | NAD83-27 | 30/07/2010 | Dark Grey Black | Pronounced Slope | 50 | Good      | C | White Spruce | Moss Mat      | Coarse           | Partially Frozen |
| CHA85783 | Soil | 532002 | 7086217 | NAD83-27 | 30/07/2010 | Dark Grey Black | Pronounced Slope | 50 | Poor      | B | Black Spruce | Moss Mat      | Partially Frozen | Organic 10%      |
| CHA85784 | Soil | 531937 | 7087795 | NAD83-27 | 31/07/2010 | Chocolate Brown | Flat             | 60 | Excellent | C | Old Burn     | Reindeer Moss | Coarse           |                  |
| CHA85785 | Soil | 532022 | 7087741 | NAD83-27 | 31/07/2010 | Chocolate Brown | Subtle Slope     | 60 | Excellent | C | Old Burn     | Reindeer Moss | Fine             |                  |

## **APPENDIX II**

### **Soil Sample Descriptions and Location Data – Echo Claim**

| SampleID  | Type | UTM_Easting | UTM_Northing | UTM_Zone | Sample_Date | Soil_Colour     | Site_Slope   | Sample_Depth (cm) | Sample_Quality | Horizon | Site_Vegetation | Site_Cover   | Sample_Note1 | Sample_Note2     |
|-----------|------|-------------|--------------|----------|-------------|-----------------|--------------|-------------------|----------------|---------|-----------------|--------------|--------------|------------------|
| ECH105707 | Soil | 515206      | 7069687      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 90                | Good           | B       | No Tree Cove    | Moss Mat     | Wet Soil     | Coarse           |
| ECH105708 | Soil | 515193      | 7069584      | NAD83-Z7 | 29/07/2010  | Reddish Brown   | Subtle Slope | 80                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         |                  |
| ECH105709 | Soil | 515175      | 7069485      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 40                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH105710 | Soil | 515129      | 7069397      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 60                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH105711 | Soil | 515052      | 7069328      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 60                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Wet Soil         |
| ECH105712 | Soil | 514976      | 7069260      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 60                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Wet Soil         |
| ECH105716 | Soil | 517510      | 7066601      | NAD83-Z7 | 30/07/2010  | Chocolate Brown | Subtle Slope | 40                | Good           | B       | No Tree Cove    | Bare Soil    | Coarse       | DUPLICATE        |
| ECH111511 | Soil | 513321      | 7067647      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 60                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Wet Soil         |
| ECH111545 | Soil | 513238      | 7067584      | NAD83-Z7 | 29/07/2010  | Reddish Yellow  | Subtle Slope | 50                | Good           | B       | Old Burn        | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111546 | Soil | 513161      | 7067521      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | Old Burn        | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111579 | Soil | 514913      | 7069180      | NAD83-Z7 | 29/07/2010  | Light Brown     | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Partially Frozen |
| ECH111580 | Soil | 514851      | 7069102      | NAD83-Z7 | 29/07/2010  | Dark Brown      | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Partially Frozen |
| ECH111581 | Soil | 514793      | 7069018      | NAD83-Z7 | 29/07/2010  | Dark Brown      | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         | Wet Soil         |
| ECH111582 | Soil | 514733      | 7068935      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 40                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111583 | Soil | 514667      | 7068859      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         | Partially Frozen |
| ECH111583 | REP  | 514667      | 7068859      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         | Partially Frozen |
| ECH111584 | Soil | 514590      | 7068794      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         |                  |
| ECH111584 | REP  | 514590      | 7068794      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Fine         |                  |
| ECH111585 | Soil | 514521      | 7068721      | NAD83-Z7 | 29/07/2010  | Reddish Brown   | Flat         | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111586 | Soil | 514463      | 7068640      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Outcrop Nearby   |
| ECH111587 | Soil | 514396      | 7068564      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 40                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Partially Frozen |
| ECH111588 | Soil | 514318      | 7068500      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 60                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111589 | Soil | 514232      | 7068447      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 70                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111590 | Soil | 514147      | 7068393      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 60                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Quartz Chips     |
| ECH111591 | Soil | 514070      | 7068327      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111592 | Soil | 514000      | 7068254      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Subtle Slope | 50                | Good           | B       | No Tree Cove    | Moss Mat     | Coarse       | Quartz Chips     |
| ECH111593 | Soil | 513925      | 7068184      | NAD83-Z7 | 29/07/2010  | Reddish Brown   | Pronounced S | 50                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       |                  |
| ECH111594 | Soil | 513845      | 7068123      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 60                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111595 | Soil | 513771      | 7068053      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 50                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111596 | Soil | 513702      | 7067980      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 60                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111597 | Soil | 513630      | 7067910      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 90                | Good           | B       | No Tree Cove    | Thin Moss Cd | Fine         | Wet Soil         |
| ECH111598 | Soil | 513559      | 7067835      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 70                | Excellent      | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111599 | Soil | 513478      | 7067774      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 90                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       |                  |
| ECH111600 | Soil | 513398      | 7067713      | NAD83-Z7 | 29/07/2010  | Chocolate Brown | Pronounced S | 50                | Good           | B       | No Tree Cove    | Thin Moss Cd | Coarse       | Quartz Chips     |
| ECH111793 | Soil | 514563      | 7065227      | NAD83-Z7 | 30/07/2010  | Chocolate Brown | Subtle Slope | 30                | Good           | C       | No Tree Cove    | Moss Mat     | Coarse       |                  |
| ECH111794 | Soil | 514531      | 7065322      | NAD83-Z7 | 30/07/2010  | Chocolate Brown | Subtle Slope | 30                | Good           | C       | No Tree Cove    | Moss Mat     | Coarse       | Rocky            |

|           |      |        |         |          |            |                 |              |    |           |   |              |                 |        |              |
|-----------|------|--------|---------|----------|------------|-----------------|--------------|----|-----------|---|--------------|-----------------|--------|--------------|
| ECH111795 | Soil | 514513 | 7065421 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | C | No Tree Cove | Moss Mat        | Coarse |              |
| ECH111796 | Soil | 514485 | 7065518 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Moss Mat        | Coarse | Rocky        |
| ECH111797 | Soil | 514456 | 7065614 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 20 | Good      | C | No Tree Cove | Frost Boil      | Coarse | Rocky        |
| ECH111798 | Soil | 514419 | 7065709 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | Willows      | Moss Mat        | Coarse |              |
| ECH111799 | Soil | 514412 | 7065807 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | C | Willows      | Moss Mat        | Coarse |              |
| ECH111800 | Soil | 514373 | 7065899 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 20 | Good      | C | Willows      | Moss Mat        | Coarse | Rocky        |
| ECH111801 | Soil | 514350 | 7065996 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | Willows      | Moss Mat        | Coarse |              |
| ECH111802 | Soil | 514329 | 7066094 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 30 | Good      | C | Willows      | Moss Mat        | Coarse |              |
| ECH111802 | REP  | 514329 | 7066094 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 30 | Good      | C | Willows      | Moss Mat        | Coarse |              |
| ECH111821 | Soil | 514946 | 7067208 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Poor      | B | Buckbrush    | Moss Mat        | Coarse |              |
| ECH111822 | Soil | 514870 | 7067142 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | Buckbrush    | Moss Mat        | Coarse |              |
| ECH111823 | Soil | 514810 | 7067064 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | Buckbrush    | Moss Mat        | Coarse |              |
| ECH111831 | Soil | 514198 | 7066831 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Poor      | B | Buckbrush    | Moss Mat        | Coarse | Wet Soil     |
| ECH111832 | Soil | 514108 | 7066839 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Poor      | B | Old Burn     | Moss Mat        | Fine   | N/A          |
| ECH111833 | Soil | 514008 | 7066855 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Poor      | B | Old Burn     | Moss Mat        | Coarse |              |
| ECH111835 | Soil | 513810 | 7066893 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope | 40 | Good      | B | Old Burn     | Moss Mat        | Coarse |              |
| ECH111836 | Soil | 513616 | 7066943 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope | 50 | Good      | B | Old Burn     | Grass Cover     | Fine   |              |
| ECH111837 | Soil | 513522 | 7066983 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope | 40 | Good      | B | Old Burn     | Grass Cover     | Fine   |              |
| ECH111963 | Soil | 515283 | 7070279 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111975 | Soil | 515321 | 7070476 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 60 | Excellent | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111976 | Soil | 515300 | 7070379 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 40 | Good      | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111977 | Soil | 515266 | 7070178 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Rock Cover      | Coarse |              |
| ECH111978 | Soil | 515259 | 7070078 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111978 | REP  | 515259 | 7070078 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111979 | Soil | 515244 | 7069977 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 30 | Excellent | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111980 | Soil | 515234 | 7069880 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111981 | Soil | 515219 | 7069781 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 30 | Poor      | B | No Tree Cove | Thin Moss C     | Coarse |              |
| ECH111982 | Soil | 515210 | 7069730 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Thin Moss Cover |        |              |
| ECH128501 | Soil | 517207 | 7066587 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | B | No Tree Cove | Moss Mat        | Coarse | Quartz Chips |
| ECH128501 | REP  | 517207 | 7066587 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | B | No Tree Cove | Moss Mat        | Coarse | Quartz Chips |
| ECH128502 | Soil | 517111 | 7066618 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 80 | Good      | B | No Tree Cove | Moss Mat        | Coarse | Wet Soil     |
| ECH128503 | Soil | 517018 | 7066657 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 90 | Good      | B | No Tree Cove | Frost Boil      | Coarse | Quartz Chips |
| ECH128504 | Soil | 516918 | 7066672 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 70 | Good      | B | No Tree Cove | Thin Moss C     | Coarse | Quartz Chips |
| ECH128505 | Soil | 516815 | 7066683 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 40 | Good      | B | No Tree Cove | Moss Mat        | Coarse | Quartz Chips |
| ECH128506 | Soil | 516720 | 7066697 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | B | No Tree Cove | Frost Boil      | Coarse | Quartz Chips |
| ECH128506 | REP  | 516720 | 7066697 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | B | No Tree Cove | Frost Boil      | Coarse | Quartz Chips |

|           |      |        |         |          |            |                 |              |    |           |   |              |             |        |              |
|-----------|------|--------|---------|----------|------------|-----------------|--------------|----|-----------|---|--------------|-------------|--------|--------------|
| ECH128507 | Soil | 516541 | 7066792 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | B | No Tree Cove | Moss Mat    | Coarse | Quartz Chips |
| ECH128508 | Soil | 516442 | 7066823 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Moss Mat    | Coarse |              |
| ECH128508 | REP  | 516442 | 7066823 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Moss Mat    | Coarse |              |
| ECH128509 | Soil | 516345 | 7066855 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 90 | Excellent | C | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128510 | Soil | 516245 | 7066869 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128511 | Soil | 516144 | 7066878 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good      | B | No Tree Cove | Moss Mat    | Coarse |              |
| ECH128512 | Soil | 516041 | 7066885 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Good      | B | No Tree Cove | Frost Boil  | Coarse | Quartz Chips |
| ECH128513 | Soil | 515939 | 7066882 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128514 | Soil | 515840 | 7066854 | NAD83-Z7 | 30/07/2010 | Dark Brown      | Subtle Slope | 70 | Good      | B | No Tree Cove | Moss Mat    | Fine   | Wet Soil     |
| ECH128514 | REP  | 515840 | 7066854 | NAD83-Z7 | 30/07/2010 | Dark Brown      | Subtle Slope | 70 | Good      | B | No Tree Cove | Moss Mat    | Fine   | Wet Soil     |
| ECH128515 | Soil | 515744 | 7066896 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Frost Boil  | Fine   |              |
| ECH128516 | Soil | 515641 | 7066895 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Frost Boil  | Coarse |              |
| ECH128517 | Soil | 515552 | 7066845 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128517 | REP  | 515552 | 7066845 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128518 | Soil | 515457 | 7066805 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | B | No Tree Cove | Frost Boil  | Fine   |              |
| ECH128519 | Soil | 515378 | 7066742 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Rock Cover  | Fine   |              |
| ECH128520 | Soil | 515280 | 7066715 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Good      | B | No Tree Cove | Rock Cover  | Fine   | Quartz Chips |
| ECH128521 | Soil | 515196 | 7066659 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | B | No Tree Cove | Rock Cover  | Coarse |              |
| ECH128522 | Soil | 515093 | 7066643 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Excellent | B | No Tree Cove | Thin Moss C | Fine   |              |
| ECH128523 | Soil | 514992 | 7066648 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 70 | Good      | B | No Tree Cove | Thin Moss C | Coarse | Quartz Chips |
| ECH128524 | Soil | 514890 | 7066667 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 60 | Good      | B | No Tree Cove | Thin Moss C | Coarse |              |
| ECH128525 | Soil | 514790 | 7066686 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 70 | Good      | B | No Tree Cove | Moss Mat    | Coarse |              |
| ECH128525 | REP  | 514790 | 7066686 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 70 | Good      | B | No Tree Cove | Moss Mat    | Coarse |              |
| ECH128526 | Soil | 514687 | 7066711 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Good      | B | No Tree Cove | Moss Mat    | Coarse | Wet Soil     |
| ECH128527 | Soil | 514586 | 7066713 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Good      | B | No Tree Cove | Moss Mat    | Coarse | Wet Soil     |
| ECH85536  | Soil | 517179 | 7068825 | NAD83-Z7 | 29/07/2010 | Grey            | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  |              |
| ECH85537  | Soil | 517262 | 7068757 | NAD83-Z7 | 29/07/2010 | Grey            | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85538  | Soil | 517336 | 7068679 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85539  | Soil | 517396 | 7068589 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | C | No Tree Cove | Moss Mat    | Rocky  | Wet Soil     |
| ECH85540  | Soil | 517451 | 7068496 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85541  | Soil | 517497 | 7068400 | NAD83-Z7 | 29/07/2010 | Grey            | Subtle Slope | 60 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85542  | Soil | 517540 | 7068309 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85543  | Soil | 517617 | 7068239 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85544  | Soil | 517709 | 7068190 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85545  | Soil | 517805 | 7068138 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85546  | Soil | 517880 | 7068062 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Moss Mat    | Rocky  | Organic 10%  |
| ECH85547  | Soil | 517951 | 7067982 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |
| ECH85548  | Soil | 518013 | 7067894 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky  | Coarse       |

|          |      |        |         |          |            |                 |              |    |           |   |              |             |            |              |
|----------|------|--------|---------|----------|------------|-----------------|--------------|----|-----------|---|--------------|-------------|------------|--------------|
| ECH85549 | Soil | 518113 | 7067887 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85550 | Soil | 518197 | 7067952 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85551 | Soil | 518133 | 7068037 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85552 | Soil | 518075 | 7068124 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85553 | Soil | 518008 | 7068203 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 70 | Good      | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85554 | Soil | 517949 | 7068293 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85555 | Soil | 517859 | 7068357 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85556 | Soil | 517772 | 7068425 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85557 | Soil | 517697 | 7068499 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85558 | Soil | 517623 | 7068719 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 30 | Good      | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85559 | Soil | 517542 | 7068796 | NAD83-Z7 | 29/07/2010 | Grey            | Subtle Slope | 60 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85560 | Soil | 517467 | 7068871 | NAD83-Z7 | 29/07/2010 | Grey            | Subtle Slope | 40 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85561 | Soil | 517399 | 7068952 | NAD83-Z7 | 29/07/2010 | Dark Brown      | Subtle Slope | 50 | Poor      | C | No Tree Cove | Moss Mat    | Organic 10 | Wet Soil     |
| ECH85562 | Soil | 517283 | 7069119 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85563 | Soil | 517225 | 7069204 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85564 | Soil | 517164 | 7069292 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85565 | Soil | 517085 | 7069352 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Moss Mat    | Rocky      | Coarse       |
| ECH85566 | Soil | 517728 | 7066789 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Frost Boil  | Fine       |              |
| ECH85567 | Soil | 517653 | 7066723 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Frost Boil  | Fine       |              |
| ECH85568 | Soil | 517608 | 7066633 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | B | No Tree Cove | Frost Boil  | Fine       | Quartz Chips |
| ECH85569 | Soil | 517510 | 7066601 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Good      | B | No Tree Cove | Bare Soil   | Coarse     |              |
| ECH85570 | Soil | 517408 | 7066596 | NAD83-Z7 | 30/07/2010 | Dark Brown      | Pronounced S | 40 | Poor      | B | No Tree Cove | Reindeer Md | Fine       | Organic 10%  |
| ECH85571 | Soil | 517307 | 7066584 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | B | No Tree Cove | Moss Mat    | Coarse     |              |
| ECH85572 | Soil | 515578 | 7070691 | NAD83-Z7 | 29/07/2010 | Dark Brown      | Flat         | 40 | Good      | B | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85573 | Soil | 515670 | 7070650 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Rocky      | Coarse       |
| ECH85574 | Soil | 515771 | 7070630 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Quartz Chi | Coarse       |
| ECH85575 | Soil | 515828 | 7070552 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85576 | Soil | 515835 | 7070452 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85577 | Soil | 515893 | 7070380 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85578 | Soil | 515979 | 7070333 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Pronounced S | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85579 | Soil | 516056 | 7070275 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse     | Rocky        |
| ECH85580 | Soil | 516115 | 7070194 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Fine       | Rocky        |
| ECH85581 | Soil | 516115 | 7070194 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Fine       | DUPLICATE    |
| ECH85582 | Soil | 516174 | 7070118 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Grass Cover | Coarse     | Rocky        |
| ECH85582 | REP  | 516174 | 7070118 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Grass Cover | Coarse     | Rocky        |

|          |      |        |         |          |            |                 |              |     |           |   |              |             |        |                  |
|----------|------|--------|---------|----------|------------|-----------------|--------------|-----|-----------|---|--------------|-------------|--------|------------------|
| ECH85583 | Soil | 516306 | 7069972 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 90  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85584 | Soil | 516221 | 7070028 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 100 | Excellent | C | No Tree Cove | Grass Cover | Coarse | Sand             |
| ECH85585 | Soil | 516396 | 7069925 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Subtle Slope | 70  | Good      | C | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85586 | Soil | 516482 | 7069873 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Subtle Slope | 50  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85587 | Soil | 516571 | 7069823 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 80  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85588 | Soil | 516659 | 7069776 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Subtle Slope | 50  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85589 | Soil | 516748 | 7069728 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Pronounced S | 50  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85590 | Soil | 516845 | 7069707 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Pronounced S | 60  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85591 | Soil | 516944 | 7069710 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85592 | Soil | 517045 | 7069710 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 60  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85593 | Soil | 517149 | 7069702 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85594 | Soil | 517251 | 7069715 | NAD83-Z7 | 29/07/2010 | Dark Brown      | Pronounced S | 60  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85595 | Soil | 517350 | 7069731 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85596 | Soil | 517450 | 7069737 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85597 | Soil | 517529 | 7069675 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85598 | Soil | 517589 | 7069594 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85599 | Soil | 517655 | 7069518 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85600 | Soil | 517700 | 7069428 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85601 | Soil | 517757 | 7069343 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85602 | Soil | 517819 | 7069262 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50  | Good      | C | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85603 | Soil | 517879 | 7069179 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Subtle Slope | 50  | Good      | B | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85604 | Soil | 517931 | 7069093 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Subtle Slope | 50  | Good      | B | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85605 | Soil | 517966 | 7068998 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85605 | REP  | 517966 | 7068998 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 50  | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85606 | Soil | 518016 | 7068911 | NAD83-Z7 | 29/07/2010 | Reddish Brown   | Flat         | 70  | Excellent | C | No Tree Cove | Reindeer Md | Coarse |                  |
| ECH85607 | Soil | 517740 | 7066928 | NAD83-Z7 | 30/07/2010 | Greyish Green   | Flat         | 60  | Good      | B | No Tree Cove | Reindeer Md | Clay   | Rocky            |
| ECH85608 | Soil | 517789 | 7067017 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Flat         | 60  | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85609 | Soil | 516587 | 7069758 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 110 | Excellent | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85610 | Soil | 516525 | 7069565 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 110 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85610 | REP  | 516525 | 7069565 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 110 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85611 | Soil | 516493 | 7069469 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 80  | Poor      | B | No Tree Cove | Grass Cover | Coarse | Mud              |
| ECH85612 | Soil | 516466 | 7069372 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 80  | Poor      | B | No Tree Cove | Grass Cover | Coarse | Transported Soil |
| ECH85613 | Soil | 516273 | 7069314 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 80  | Poor      | B | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85613 | REP  | 516273 | 7069314 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 80  | Poor      | B | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85614 | Soil | 516171 | 7069323 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40  | Good      | B | No Tree Cove | Grass Cover | Coarse |                  |

|          |      |        |         |          |            |                 |              |    |           |   |              |             |        |                  |
|----------|------|--------|---------|----------|------------|-----------------|--------------|----|-----------|---|--------------|-------------|--------|------------------|
| ECH85615 | Soil | 516071 | 7069305 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 80 | Good      | B | No Tree Cove | Moss Mat    | Coarse |                  |
| ECH85616 | Soil | 515972 | 7069286 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 80 | Good      | C | No Tree Cove | Moss Mat    | Coarse |                  |
| ECH85617 | Soil | 515873 | 7069265 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 80 | Good      | B | No Tree Cove | Moss Mat    | Coarse |                  |
| ECH85618 | Soil | 515777 | 7069230 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | B | No Tree Cove | Moss Mat    | Coarse |                  |
| ECH85619 | Soil | 516552 | 7069661 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Flat         | 80 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85620 | Soil | 515712 | 7069152 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85621 | Soil | 515618 | 7069059 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 30 | Good      | B | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85622 | Soil | 515549 | 7068985 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 70 | Good      | B | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85623 | Soil | 515482 | 7068909 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85624 | Soil | 515427 | 7068825 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85625 | Soil | 515314 | 7068658 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85626 | Soil | 515263 | 7068570 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Poor      | B | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85626 | REP  | 515263 | 7068570 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 40 | Poor      | B | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85627 | Soil | 515364 | 7068747 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Thin Moss C | Coarse |                  |
| ECH85628 | Soil | 515224 | 7068476 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 60 | Poor      | B | No Tree Cove | Thin Moss C | Coarse | Mud              |
| ECH85629 | Soil | 515154 | 7068403 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 60 | Poor      | B | No Tree Cove | Thin Moss C | Fine   | Transported Soil |
| ECH85630 | Soil | 515116 | 7068310 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 60 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85631 | Soil | 515070 | 7068219 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 70 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85632 | Soil | 515037 | 7068125 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85633 | Soil | 514990 | 7068044 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Subtle Slope | 50 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85634 | Soil | 514961 | 7067949 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85635 | Soil | 514928 | 7067852 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 40 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85636 | Soil | 514888 | 7067760 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85637 | Soil | 514889 | 7067763 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | C | No Tree Cove | Grass Cover | Coarse | DUPLICATE        |
| ECH85638 | Soil | 514852 | 7067670 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 40 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85639 | Soil | 514810 | 7067577 | NAD83-Z7 | 29/07/2010 | Chocolate Brown | Pronounced S | 40 | Good      | C | No Tree Cove | Grass Cover | Coarse |                  |
| ECH85676 | Soil | 517836 | 7067108 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85677 | Soil | 517881 | 7067200 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85678 | Soil | 517929 | 7067289 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85679 | Soil | 517881 | 7067379 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85680 | Soil | 517826 | 7067466 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85681 | Soil | 517785 | 7067558 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85682 | Soil | 517724 | 7067639 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85683 | Soil | 517639 | 7067695 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85684 | Soil | 517552 | 7067748 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Pronounced S | 90 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85685 | Soil | 517503 | 7067845 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Good      | B | No Tree Cove | Reindeer Md | Fine   | Rocky            |
| ECH85686 | Soil | 517485 | 7067946 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | B | No Tree Cove | Reindeer Md | Coarse | Rocky            |
| ECH85687 | Soil | 517417 | 7068022 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Subtle Slope | 60 | Good      | C | No Tree Cove | Reindeer Md | Coarse | Rocky            |

|          |      |        |         |          |            |                 |              |    |           |   |              |             |        |          |
|----------|------|--------|---------|----------|------------|-----------------|--------------|----|-----------|---|--------------|-------------|--------|----------|
| ECH85688 | Soil | 517352 | 7068099 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85689 | Soil | 517289 | 7068179 | NAD83-Z7 | 30/07/2010 | Dark Brown      | Subtle Slope | 50 | Poor      | B | No Tree Cove | Reindeer Md | Fine   | Rocky    |
| ECH85690 | Soil | 517237 | 7068266 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 40 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85691 | Soil | 517161 | 7068336 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85692 | Soil | 517094 | 7068412 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Flat         | 50 | Good      | B | No Tree Cove | Reindeer Md | Fine   | Rocky    |
| ECH85693 | Soil | 517061 | 7068509 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Flat         | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85694 | Soil | 517005 | 7068593 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Bare Soil   | Coarse | Rocky    |
| ECH85695 | Soil | 516981 | 7068692 | NAD83-Z7 | 30/07/2010 | Reddish Brown   | Pronounced S | 60 | Excellent | C | No Tree Cove | Bare Soil   | Fine   | Rocky    |
| ECH85696 | Soil | 516965 | 7068792 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Bare Soil   | Coarse | Rocky    |
| ECH85697 | Soil | 516922 | 7068884 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85698 | Soil | 516922 | 7068884 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85699 | Soil | 516823 | 7068913 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Fine   | Rocky    |
| ECH85700 | Soil | 516850 | 7069018 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85701 | Soil | 516748 | 7069029 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85701 | REP  | 516748 | 7069029 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 70 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85702 | Soil | 516647 | 7069030 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85703 | Soil | 516545 | 7069035 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Pronounced S | 50 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85704 | Soil | 516445 | 7069033 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85705 | Soil | 516358 | 7068980 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 90 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85706 | Soil | 516276 | 7068921 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Excellent | C | Buckbrush    | Frost Boil  | Coarse | Rocky    |
| ECH85707 | Soil | 516206 | 7068847 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 60 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Rocky    |
| ECH85708 | Soil | 516134 | 7068774 | NAD83-Z7 | 30/07/2010 | Chocolate Brown | Subtle Slope | 80 | Excellent | C | No Tree Cove | Reindeer Md | Coarse | Wet Soil |

### **APPENDIX III**

#### **Assay Results (ACME Analytical Lab Certificates)**



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Submitted By: Email Distribution

Receiving Lab: Canada-Whitehorse

Received: August 13, 2010

Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000264.1

### CLIENT JOB INFORMATION

Project: CHA  
Shipment ID: CHA1  
P.O. Number  
Number of Samples: 240

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Ryan Gold  
402 - 905 West Pender St.  
Vancouver BC V6C1L6  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                           | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--------------------------------------------|--------------|---------------|-----|
| SS80        | 240               | Dry at 60C sieve 100g to -80 mesh          |              |               | WHI |
| Dry at 60C  | 240               | Dry at 60C                                 |              | Completed     | WHI |
| 1DX2        | 240               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     | VAN |

### ADDITIONAL COMMENTS



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



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Project:

CHA

Report Date:

September 02, 2010

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca | P    |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %  | %    |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2  | 0.01 |
| CHA 128659 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128644 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 85784  | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128640 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128664 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128666 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 129000 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128635 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128651 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128642 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128665 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128648 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128653 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128652 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128655 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128649 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128656 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128646 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128654 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128657 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128643 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128636 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128645 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 128647 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111881 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111733 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111735 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111879 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111730 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |
| CHA 111882 | Soil   |         |      |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |      |



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Report Date:

September 02, 2010

Page:

2 of 9

Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 128659 | Soil                             | 15    | 36    | 0.66  | 452   | 0.080 | <1    | 1.68  | 0.010 | 0.06  | 0.2   | 0.03  | 5.6   | <0.1  | <0.05 | 5     | 0.6   | <0.2  |
| CHA 128644 | Soil                             | 15    | 40    | 0.84  | 190   | 0.135 | 1     | 2.63  | 0.007 | 0.16  | 0.2   | 0.04  | 3.2   | 0.2   | <0.05 | 8     | 0.7   | <0.2  |
| CHA 85784  | Soil                             | 17    | 31    | 0.58  | 174   | 0.076 | <1    | 1.49  | 0.007 | 0.17  | 0.1   | 0.01  | 3.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128640 | Soil                             | 12    | 208   | 3.84  | 1093  | 0.285 | <1    | 4.47  | 0.019 | 1.29  | <0.1  | <0.01 | 6.4   | 0.6   | <0.05 | 18    | <0.5  | <0.2  |
| CHA 128664 | Soil                             | 9     | 17    | 0.53  | 356   | 0.181 | <1    | 1.93  | 0.008 | 0.39  | 0.1   | 0.02  | 3.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128666 | Soil                             | 6     | 4     | 1.22  | 317   | 0.213 | <1    | 2.64  | 0.010 | 0.21  | <0.1  | <0.01 | 11.8  | <0.1  | <0.05 | 10    | <0.5  | <0.2  |
| CHA 129000 | Soil                             | 4     | 10    | 0.23  | 92    | 0.054 | <1    | 0.76  | 0.017 | 0.07  | <0.1  | 0.03  | 1.4   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 128635 | Soil                             | 10    | 36    | 0.98  | 316   | 0.159 | <1    | 2.15  | 0.010 | 0.35  | 0.1   | 0.03  | 4.0   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 128651 | Soil                             | 25    | 34    | 0.75  | 245   | 0.097 | 1     | 2.19  | 0.010 | 0.23  | 0.1   | 0.02  | 4.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128642 | Soil                             | 14    | 19    | 0.82  | 186   | 0.108 | <1    | 1.92  | 0.008 | 0.26  | <0.1  | <0.01 | 2.3   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128665 | Soil                             | 8     | 3     | 1.30  | 402   | 0.181 | <1    | 2.50  | 0.009 | 0.28  | <0.1  | <0.01 | 13.8  | <0.1  | <0.05 | 10    | <0.5  | <0.2  |
| CHA 128648 | Soil                             | 16    | 25    | 0.37  | 166   | 0.060 | <1    | 1.82  | 0.006 | 0.08  | 0.2   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128653 | Soil                             | 52    | 12    | 0.19  | 236   | 0.006 | <1    | 0.81  | 0.004 | 0.15  | <0.1  | <0.01 | 4.4   | 0.1   | <0.05 | 2     | <0.5  | <0.2  |
| CHA 128652 | Soil                             | 44    | 18    | 0.61  | 286   | 0.030 | <1    | 1.80  | 0.008 | 0.23  | <0.1  | <0.01 | 7.4   | 0.2   | <0.05 | 6     | 0.7   | <0.2  |
| CHA 128655 | Soil                             | 56    | 13    | 0.10  | 151   | 0.005 | <1    | 0.57  | 0.003 | 0.12  | <0.1  | 0.01  | 5.3   | <0.1  | <0.05 | 2     | 0.8   | <0.2  |
| CHA 128649 | Soil                             | 31    | 27    | 1.42  | 302   | 0.174 | <1    | 3.20  | 0.012 | 0.74  | <0.1  | 0.02  | 7.7   | 0.3   | <0.05 | 11    | <0.5  | <0.2  |
| CHA 128656 | Soil                             | 19    | 115   | 1.40  | 808   | 0.141 | <1    | 2.23  | 0.011 | 0.57  | <0.1  | <0.01 | 9.5   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 128646 | Soil                             | 9     | 8     | 0.52  | 722   | 0.007 | <1    | 1.43  | 0.002 | 0.13  | 0.1   | 0.04  | 10.7  | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| CHA 128654 | Soil                             | 55    | 41    | 1.15  | 435   | 0.156 | 1     | 1.98  | 0.007 | 0.56  | 0.1   | <0.01 | 4.5   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128657 | Soil                             | 54    | 52    | 0.81  | 154   | 0.085 | <1    | 2.66  | 0.006 | 0.34  | <0.1  | 0.01  | 3.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128643 | Soil                             | 11    | 45    | 1.23  | 274   | 0.189 | 2     | 2.95  | 0.010 | 0.22  | 0.2   | 0.02  | 4.9   | 0.2   | <0.05 | 9     | 0.5   | <0.2  |
| CHA 128636 | Soil                             | 18    | 36    | 0.82  | 442   | 0.096 | 1     | 1.99  | 0.012 | 0.16  | 0.2   | 0.07  | 5.3   | 0.2   | <0.05 | 6     | 0.6   | <0.2  |
| CHA 128645 | Soil                             | 17    | 45    | 1.05  | 405   | 0.113 | <1    | 2.40  | 0.008 | 0.22  | 0.1   | 0.02  | 4.7   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128647 | Soil                             | 9     | 9     | 0.53  | 733   | 0.008 | <1    | 1.45  | 0.004 | 0.15  | 0.1   | 0.03  | 10.8  | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 111881 | Soil                             | 8     | 16    | 0.59  | 126   | 0.086 | <1    | 1.31  | 0.019 | 0.08  | <0.1  | 0.03  | 4.2   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111733 | Soil                             | 11    | 27    | 1.08  | 400   | 0.092 | 1     | 2.46  | 0.015 | 0.23  | <0.1  | 0.03  | 11.7  | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 111735 | Soil                             | 12    | 23    | 0.55  | 387   | 0.051 | <1    | 1.77  | 0.013 | 0.12  | 0.1   | 0.03  | 10.2  | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 111879 | Soil                             | 12    | 26    | 0.51  | 222   | 0.055 | <1    | 1.59  | 0.013 | 0.06  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 111730 | Soil                             | 7     | 25    | 0.70  | 151   | 0.099 | <1    | 2.04  | 0.009 | 0.13  | 0.1   | 0.02  | 5.4   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111882 | Soil                             | 9     | 25    | 0.46  | 173   | 0.054 | <1    | 1.72  | 0.009 | 0.09  | 0.1   | 0.03  | 4.8   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|            |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|            |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| CHA 111734 | Soil                             | 0.8   | 44.7  | 9.1   | 57    | <0.1  | 21.3  | 12.9  | 530   | 3.27  | 7.0   | 0.6   | 1.1   | 3.3   | 16    | 0.1   | 0.6   | 0.1   | 70    | 0.18  | 0.023 |
| CHA 112342 | Soil                             | 0.7   | 37.2  | 6.6   | 55    | <0.1  | 13.4  | 14.1  | 558   | 3.80  | 5.9   | 0.4   | 1.1   | 2.0   | 10    | 0.2   | 0.4   | 0.1   | 109   | 0.16  | 0.039 |
| CHA 112341 | Soil                             | 1.0   | 36.5  | 9.7   | 46    | 0.1   | 16.0  | 11.9  | 436   | 3.05  | 6.1   | 0.7   | 3.3   | 2.3   | 11    | <0.1  | 0.5   | 0.2   | 85    | 0.14  | 0.035 |
| CHA 112337 | Soil                             | 0.1   | 72.3  | 4.7   | 77    | <0.1  | 11.3  | 35.0  | 1715  | 6.36  | <0.5  | 0.5   | <0.5  | 1.3   | 12    | <0.1  | 0.3   | <0.1  | 95    | 0.28  | 0.051 |
| CHA 112339 | Soil                             | 0.1   | 47.4  | 4.9   | 71    | <0.1  | 11.1  | 28.8  | 1210  | 6.20  | <0.5  | 0.5   | <0.5  | 1.5   | 13    | <0.1  | 0.5   | <0.1  | 98    | 0.26  | 0.057 |
| CHA 111731 | Soil                             | 0.3   | 72.1  | 5.0   | 73    | <0.1  | 14.3  | 25.4  | 1101  | 5.42  | 3.0   | 0.4   | 0.7   | 1.7   | 16    | 0.1   | 0.3   | <0.1  | 129   | 0.31  | 0.041 |
| CHA 85672  | Soil                             | 0.7   | 36.7  | 7.8   | 68    | 0.1   | 14.5  | 12.8  | 447   | 3.20  | 5.6   | 0.7   | 2.8   | 2.3   | 24    | <0.1  | 0.6   | 0.2   | 80    | 0.45  | 0.045 |
| CHA 85661  | Soil                             | 1.0   | 25.6  | 17.5  | 62    | 0.3   | 30.9  | 11.2  | 296   | 2.94  | 11.0  | 0.5   | 5.9   | 6.1   | 12    | 0.5   | 0.6   | 0.2   | 58    | 0.11  | 0.018 |
| CHA 85662  | Soil                             | 1.0   | 33.9  | 10.2  | 63    | 0.3   | 22.0  | 12.6  | 315   | 3.36  | 9.4   | 0.6   | 1.5   | 4.2   | 9     | 0.3   | 0.6   | 0.2   | 83    | 0.09  | 0.026 |
| CHA 85646  | Soil                             | 1.3   | 19.3  | 18.5  | 46    | 0.2   | 13.6  | 8.0   | 274   | 2.13  | 13.0  | 0.7   | 3.9   | 1.0   | 33    | 0.2   | 0.5   | 0.5   | 59    | 0.34  | 0.056 |
| CHA 85642  | Soil                             | 2.1   | 15.0  | 42.6  | 50    | 0.2   | 14.0  | 6.2   | 232   | 3.14  | 25.8  | 0.6   | 2.5   | 1.9   | 13    | 0.4   | 0.9   | 0.5   | 74    | 0.11  | 0.046 |
| CHA 85665  | Soil                             | 0.7   | 26.3  | 10.4  | 69    | <0.1  | 23.5  | 13.5  | 392   | 3.37  | 6.5   | 0.5   | 1.3   | 5.4   | 8     | 0.2   | 0.5   | 0.2   | 60    | 0.09  | 0.023 |
| CHA 85643  | Soil                             | 2.6   | 19.2  | 41.9  | 38    | 0.3   | 12.7  | 4.5   | 267   | 2.05  | 48.2  | 0.7   | 10.1  | 0.4   | 22    | 0.4   | 1.7   | 0.7   | 48    | 0.15  | 0.062 |
| CHA 85668  | Soil                             | 1.0   | 24.2  | 11.7  | 64    | 0.2   | 20.7  | 12.4  | 592   | 2.72  | 8.2   | 1.0   | 1.1   | 3.0   | 25    | 0.1   | 0.4   | 0.2   | 58    | 0.40  | 0.041 |
| CHA 85660  | Soil                             | 0.9   | 35.4  | 11.8  | 56    | <0.1  | 20.9  | 9.5   | 609   | 2.59  | 11.4  | 0.8   | 2.1   | 3.1   | 17    | <0.1  | 0.7   | 0.4   | 51    | 0.23  | 0.038 |
| CHA 85671  | Soil                             | 0.7   | 28.8  | 9.1   | 68    | <0.1  | 20.7  | 11.1  | 327   | 2.65  | 8.6   | 0.7   | 2.7   | 3.7   | 30    | 0.2   | 0.6   | 0.2   | 57    | 0.48  | 0.072 |
| CHA 85675  | Soil                             | 0.7   | 88.7  | 7.3   | 79    | <0.1  | 17.1  | 27.3  | 923   | 5.82  | 4.4   | 0.7   | 1.4   | 2.2   | 22    | 0.1   | 0.9   | 0.1   | 156   | 0.48  | 0.045 |
| CHA 85649  | Soil                             | 1.6   | 46.7  | 17.6  | 69    | 0.2   | 22.0  | 11.2  | 319   | 2.76  | 10.3  | 1.0   | 4.6   | 2.5   | 27    | 0.3   | 0.8   | 0.2   | 70    | 0.30  | 0.060 |
| CHA 85663  | Soil                             | 0.9   | 24.8  | 10.5  | 55    | 0.1   | 22.4  | 11.3  | 320   | 3.28  | 10.2  | 0.9   | 2.1   | 5.2   | 12    | 0.2   | 0.6   | 0.2   | 68    | 0.11  | 0.030 |
| CHA 85669  | Soil                             | 0.8   | 44.9  | 9.9   | 55    | <0.1  | 19.2  | 11.3  | 329   | 3.07  | 8.6   | 0.5   | 2.2   | 2.9   | 14    | 0.2   | 0.5   | 0.2   | 79    | 0.18  | 0.024 |
| CHA 85666  | Soil                             | 0.7   | 30.0  | 12.9  | 65    | <0.1  | 25.4  | 13.2  | 342   | 3.26  | 4.1   | 0.8   | 3.1   | 8.1   | 10    | 0.2   | 0.4   | 0.2   | 67    | 0.15  | 0.046 |
| CHA 85667  | Soil                             | 0.9   | 59.0  | 5.6   | 40    | 0.1   | 37.3  | 8.6   | 213   | 3.70  | 3.3   | 1.5   | 1.2   | 22.4  | 59    | <0.1  | 0.5   | 0.3   | 36    | 0.23  | 0.072 |
| CHA 85645  | Soil                             | 2.1   | 39.3  | 17.3  | 53    | 0.3   | 20.7  | 8.8   | 283   | 2.52  | 31.8  | 1.3   | 6.9   | 2.8   | 24    | 0.3   | 0.9   | 0.7   | 61    | 0.20  | 0.051 |
| CHA 85673  | Soil                             | 0.7   | 23.5  | 9.0   | 59    | 0.1   | 13.5  | 9.7   | 325   | 2.74  | 6.3   | 0.8   | 5.2   | 2.2   | 22    | 0.2   | 0.6   | 0.2   | 61    | 0.37  | 0.051 |
| CHA 85664  | Soil                             | 1.1   | 28.0  | 18.9  | 87    | <0.1  | 21.0  | 9.7   | 413   | 2.90  | 7.4   | 1.0   | 2.5   | 3.8   | 18    | 0.2   | 0.5   | 0.2   | 56    | 0.22  | 0.038 |
| CHA 85648  | Soil                             | 1.2   | 34.8  | 11.7  | 39    | 0.5   | 16.1  | 5.7   | 125   | 2.05  | 8.6   | 1.7   | 3.4   | 0.8   | 27    | 0.2   | 0.5   | 0.3   | 42    | 0.20  | 0.050 |
| CHA 85644  | Soil                             | 4.0   | 42.7  | 25.2  | 63    | 0.3   | 26.7  | 7.3   | 268   | 2.95  | 111.3 | 1.7   | 13.1  | 3.6   | 29    | 0.3   | 2.7   | 0.6   | 61    | 0.19  | 0.086 |
| CHA 85653  | Soil                             | 1.2   | 35.7  | 19.8  | 61    | 0.2   | 23.0  | 13.7  | 279   | 3.43  | 10.6  | 0.5   | 2.6   | 3.3   | 16    | 0.4   | 0.8   | 0.2   | 75    | 0.13  | 0.023 |
| CHA 85650  | Soil                             | 1.4   | 79.0  | 14.1  | 58    | 0.3   | 23.5  | 9.9   | 451   | 2.82  | 18.3  | 1.1   | 2.9   | 1.5   | 19    | 0.2   | 1.1   | 1.1   | 62    | 0.22  | 0.049 |
| CHA 85651  | Soil                             | 1.8   | 35.5  | 14.6  | 57    | 0.2   | 21.7  | 8.0   | 351   | 3.11  | 17.0  | 1.0   | 1.9   | 2.2   | 20    | 0.1   | 0.8   | 1.2   | 80    | 0.22  | 0.040 |



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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 111734 | Soil                             | 11    | 28    | 0.52  | 382   | 0.042 | 1     | 2.14  | 0.013 | 0.08  | <0.1  | 0.01  | 5.9   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 112342 | Soil                             | 7     | 23    | 0.92  | 193   | 0.133 | <1    | 1.93  | 0.012 | 0.30  | 0.1   | 0.01  | 5.5   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 112341 | Soil                             | 9     | 26    | 0.66  | 250   | 0.108 | <1    | 1.92  | 0.012 | 0.10  | 0.1   | 0.02  | 5.0   | 0.1   | <0.05 | 7     | 0.5   | <0.2  |
| CHA 112337 | Soil                             | 7     | 11    | 0.77  | 395   | 0.007 | 2     | 1.74  | 0.006 | 0.16  | <0.1  | <0.01 | 19.1  | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 112339 | Soil                             | 10    | 10    | 0.87  | 477   | 0.005 | <1    | 1.98  | 0.006 | 0.16  | <0.1  | <0.01 | 17.7  | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111731 | Soil                             | 7     | 20    | 1.43  | 458   | 0.188 | <1    | 2.29  | 0.015 | 0.78  | <0.1  | 0.01  | 9.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85672  | Soil                             | 9     | 25    | 0.90  | 247   | 0.091 | 2     | 1.89  | 0.014 | 0.13  | 0.2   | 0.03  | 5.9   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85661  | Soil                             | 13    | 33    | 0.65  | 171   | 0.078 | 2     | 2.12  | 0.007 | 0.09  | 0.1   | 0.04  | 2.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 85662  | Soil                             | 8     | 34    | 0.71  | 187   | 0.099 | 2     | 2.45  | 0.008 | 0.12  | 0.1   | 0.05  | 4.8   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85646  | Soil                             | 8     | 23    | 0.54  | 251   | 0.050 | 1     | 1.48  | 0.012 | 0.06  | 0.3   | 0.03  | 2.8   | 0.1   | <0.05 | 5     | <0.5  | 0.3   |
| CHA 85642  | Soil                             | 9     | 27    | 0.36  | 174   | 0.050 | 1     | 1.69  | 0.007 | 0.04  | 0.2   | 0.03  | 2.1   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85665  | Soil                             | 14    | 35    | 0.84  | 165   | 0.116 | 1     | 2.33  | 0.007 | 0.21  | 0.1   | 0.02  | 3.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85643  | Soil                             | 9     | 19    | 0.22  | 287   | 0.035 | <1    | 0.89  | 0.010 | 0.06  | 0.2   | 0.04  | 1.1   | <0.1  | 0.06  | 4     | <0.5  | <0.2  |
| CHA 85668  | Soil                             | 12    | 32    | 0.60  | 345   | 0.064 | 1     | 1.74  | 0.011 | 0.05  | 0.1   | 0.04  | 3.5   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85660  | Soil                             | 13    | 29    | 0.62  | 171   | 0.043 | <1    | 1.57  | 0.008 | 0.05  | <0.1  | 0.02  | 3.4   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 85671  | Soil                             | 13    | 28    | 0.61  | 254   | 0.082 | 1     | 1.41  | 0.021 | 0.06  | 0.2   | 0.03  | 3.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 85675  | Soil                             | 11    | 27    | 1.69  | 312   | 0.178 | <1    | 2.95  | 0.013 | 0.54  | 0.1   | 0.02  | 13.9  | 0.3   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 85649  | Soil                             | 11    | 36    | 0.82  | 314   | 0.088 | 1     | 1.83  | 0.010 | 0.14  | 0.1   | 0.04  | 3.9   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| CHA 85663  | Soil                             | 12    | 37    | 0.60  | 229   | 0.098 | 1     | 2.34  | 0.009 | 0.08  | 0.1   | 0.02  | 4.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85669  | Soil                             | 11    | 31    | 0.60  | 217   | 0.066 | <1    | 2.11  | 0.012 | 0.04  | 0.1   | 0.02  | 4.1   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85666  | Soil                             | 13    | 39    | 0.90  | 172   | 0.147 | <1    | 2.18  | 0.010 | 0.33  | 0.1   | <0.01 | 3.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85667  | Soil                             | 44    | 36    | 0.76  | 255   | 0.047 | <1    | 1.47  | 0.012 | 0.46  | <0.1  | 0.01  | 2.8   | 0.2   | 0.35  | 5     | 1.0   | 0.5   |
| CHA 85645  | Soil                             | 13    | 31    | 0.44  | 234   | 0.061 | 2     | 1.73  | 0.013 | 0.09  | 0.2   | 0.04  | 3.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85673  | Soil                             | 11    | 22    | 0.58  | 234   | 0.057 | <1    | 1.62  | 0.013 | 0.06  | 0.2   | 0.05  | 4.8   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 85664  | Soil                             | 16    | 32    | 0.74  | 246   | 0.099 | 2     | 1.84  | 0.009 | 0.14  | 0.1   | 0.02  | 4.0   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85648  | Soil                             | 13    | 26    | 0.39  | 286   | 0.044 | 1     | 1.84  | 0.012 | 0.06  | 0.1   | 0.07  | 3.4   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| CHA 85644  | Soil                             | 14    | 34    | 0.45  | 236   | 0.056 | 1     | 1.58  | 0.010 | 0.08  | 0.2   | 0.04  | 3.1   | 0.1   | <0.05 | 5     | 1.2   | 0.3   |
| CHA 85653  | Soil                             | 9     | 35    | 0.70  | 178   | 0.090 | 1     | 2.54  | 0.009 | 0.08  | 0.1   | 0.03  | 3.3   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85650  | Soil                             | 11    | 28    | 0.57  | 203   | 0.040 | 1     | 1.74  | 0.009 | 0.07  | 0.2   | 0.03  | 3.0   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 85651  | Soil                             | 11    | 34    | 0.56  | 268   | 0.042 | <1    | 1.99  | 0.008 | 0.07  | 0.1   | 0.02  | 3.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|            |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|            |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| CHA 85656  | Soil                             | 1.0   | 49.2  | 17.5  | 74    | <0.1  | 24.1  | 13.7  | 452   | 3.45  | 8.3   | 0.5   | 2.1   | 2.7   | 23    | 0.2   | 0.5   | 0.2   | 85    | 0.29  | 0.055 |
| CHA 85655  | Soil                             | 1.2   | 49.2  | 19.7  | 75    | <0.1  | 24.5  | 14.9  | 454   | 3.69  | 8.2   | 0.5   | 2.4   | 2.7   | 20    | 0.2   | 0.5   | 0.2   | 93    | 0.28  | 0.055 |
| CHA 85658  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 85654  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 85647  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 128662 | Soil                             | 0.7   | 21.7  | 4.6   | 114   | <0.1  | 7.9   | 12.9  | 519   | 4.54  | 3.9   | 0.7   | 0.6   | 2.6   | 8     | 0.3   | 0.3   | <0.1  | 77    | 0.12  | 0.045 |
| CHA 85659  | Soil                             | 1.3   | 44.3  | 46.8  | 136   | <0.1  | 19.5  | 8.7   | 618   | 3.84  | 17.2  | 0.4   | 1.6   | 0.9   | 9     | 0.3   | 0.8   | 0.3   | 82    | 0.08  | 0.040 |
| CHA 85657  | Soil                             | 1.8   | 33.7  | 12.3  | 76    | 0.2   | 21.2  | 6.5   | 350   | 2.95  | 8.6   | 0.6   | 1.3   | 2.0   | 18    | 0.6   | 0.6   | 0.5   | 89    | 0.18  | 0.032 |
| CHA 85652  | Soil                             | 1.3   | 23.1  | 21.1  | 64    | 0.2   | 17.4  | 25.7  | 1307  | 2.89  | 14.6  | 0.9   | 2.6   | 1.8   | 21    | 0.2   | 0.7   | 0.3   | 58    | 0.24  | 0.049 |
| CHA 85640  | Soil                             | 2.5   | 25.0  | 59.2  | 66    | 0.3   | 21.2  | 8.5   | 311   | 2.88  | 108.6 | 0.9   | 7.4   | 2.9   | 18    | 0.5   | 2.9   | 2.6   | 58    | 0.15  | 0.060 |
| CHA 85641  | Soil                             | 2.6   | 14.2  | 44.9  | 44    | 0.3   | 15.9  | 4.8   | 228   | 2.52  | 46.6  | 0.4   | 1.1   | 1.9   | 11    | 0.5   | 1.3   | 0.8   | 81    | 0.08  | 0.055 |
| CHA 85670  | Soil                             | 1.0   | 55.7  | 10.0  | 84    | <0.1  | 14.5  | 32.1  | 1912  | 5.82  | 4.6   | 0.4   | 0.9   | 1.5   | 15    | 0.2   | 1.1   | 0.1   | 168   | 0.34  | 0.043 |
| CHA 85780  | Soil                             | 1.6   | 63.2  | 10.9  | 123   | 0.3   | 63.5  | 14.3  | 231   | 3.70  | 13.0  | 1.4   | 2.0   | 5.1   | 18    | 0.4   | 0.8   | 0.2   | 77    | 0.20  | 0.038 |
| CHA 85766  | Soil                             | 0.8   | 42.7  | 9.8   | 67    | 0.2   | 9.6   | 4.9   | 360   | 2.26  | 4.2   | 1.1   | 1.0   | 2.1   | 20    | 0.2   | 0.4   | 0.2   | 40    | 0.26  | 0.030 |
| CHA 85775  | Soil                             | 1.1   | 28.7  | 6.0   | 56    | <0.1  | 12.8  | 11.0  | 359   | 3.88  | 5.3   | 0.4   | <0.5  | 2.4   | 8     | <0.1  | 0.5   | 0.1   | 105   | 0.10  | 0.033 |
| CHA 85764  | Soil                             | 0.7   | 20.7  | 13.2  | 61    | 0.1   | 18.0  | 8.4   | 300   | 2.52  | 6.0   | 0.8   | 3.6   | 3.5   | 18    | 0.2   | 0.4   | 0.3   | 41    | 0.25  | 0.048 |
| CHA 85779  | Soil                             | 0.8   | 20.8  | 7.5   | 62    | <0.1  | 20.8  | 12.1  | 286   | 3.07  | 6.8   | 0.5   | 4.1   | 3.0   | 11    | 0.1   | 0.4   | 0.1   | 52    | 0.14  | 0.034 |
| CHA 85757  | Soil                             | 0.8   | 29.3  | 12.5  | 59    | <0.1  | 17.9  | 8.9   | 498   | 2.48  | 10.6  | 0.6   | 2.6   | 1.8   | 18    | 0.2   | 0.6   | 0.3   | 52    | 0.24  | 0.044 |
| CHA 85776  | Soil                             | 1.1   | 8.1   | 8.7   | 29    | <0.1  | 9.5   | 5.9   | 203   | 2.41  | 5.3   | 0.2   | 0.5   | 1.5   | 7     | 0.2   | 0.3   | 0.2   | 82    | 0.09  | 0.029 |
| CHA 85781  | Soil                             | 1.7   | 44.3  | 10.4  | 80    | 0.2   | 27.5  | 13.3  | 502   | 3.58  | 11.0  | 1.2   | 5.6   | 3.7   | 24    | 0.2   | 1.0   | 0.2   | 74    | 0.42  | 0.040 |
| CHA 85758  | Soil                             | 1.1   | 34.1  | 12.9  | 55    | 0.2   | 19.7  | 8.1   | 336   | 2.43  | 10.3  | 0.8   | 2.9   | 1.2   | 16    | 0.2   | 0.6   | 0.4   | 52    | 0.16  | 0.051 |
| CHA 85777  | Soil                             | 0.7   | 31.9  | 6.1   | 71    | <0.1  | 19.6  | 19.5  | 467   | 3.90  | 6.2   | 0.5   | 1.0   | 2.6   | 19    | <0.1  | 0.5   | <0.1  | 102   | 0.45  | 0.065 |
| CHA 85759  | Soil                             | 0.7   | 28.0  | 12.0  | 54    | 0.2   | 18.2  | 9.2   | 296   | 2.37  | 8.1   | 0.8   | 2.4   | 1.3   | 17    | 0.2   | 0.5   | 0.4   | 50    | 0.20  | 0.047 |
| CHA 85761  | Soil                             | 0.6   | 29.1  | 8.9   | 56    | 0.1   | 18.2  | 7.6   | 284   | 2.47  | 6.0   | 0.7   | 3.2   | 3.4   | 18    | 0.1   | 0.5   | 0.3   | 45    | 0.29  | 0.054 |
| CHA 111989 | Soil                             | 0.7   | 46.6  | 5.6   | 61    | 0.3   | 11.0  | 17.0  | 717   | 4.15  | 5.2   | 0.6   | 1.9   | 1.7   | 13    | <0.1  | 0.4   | <0.1  | 101   | 0.29  | 0.046 |
| CHA 111993 | Soil                             | 0.9   | 33.9  | 7.3   | 54    | 0.1   | 17.6  | 10.8  | 305   | 3.25  | 7.9   | 0.4   | 0.9   | 2.3   | 17    | 0.1   | 0.4   | 0.1   | 84    | 0.21  | 0.037 |
| CHA 111984 | Soil                             | 2.5   | 49.5  | 13.9  | 73    | 0.3   | 43.5  | 26.0  | 1066  | 5.00  | 7.6   | 1.4   | 1.4   | 11.8  | 23    | 0.1   | 0.8   | 0.4   | 44    | 0.45  | 0.088 |
| CHA 111948 | Soil                             | 1.4   | 34.1  | 14.1  | 84    | 0.2   | 16.5  | 10.5  | 446   | 3.26  | 13.7  | 0.9   | 1.5   | 2.0   | 38    | 0.3   | 0.7   | 0.1   | 54    | 0.97  | 0.057 |
| CHA 111946 | Soil                             | 1.3   | 28.6  | 8.6   | 81    | 0.2   | 18.0  | 11.2  | 383   | 3.47  | 7.9   | 1.0   | 0.8   | 3.0   | 27    | 0.1   | 0.7   | 0.2   | 71    | 0.41  | 0.062 |
| CHA 111991 | Soil                             | 0.8   | 28.5  | 4.3   | 54    | <0.1  | 14.1  | 16.6  | 440   | 4.61  | 4.2   | 0.3   | <0.5  | 1.3   | 13    | <0.1  | 0.4   | <0.1  | 131   | 0.20  | 0.018 |



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Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|            |                                  | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.01  | 0.1   | 0.05  | 1     | 0.5   |
| CHA 85656  | Soil                             | 10    | 37    | 1.10  | 369   | 0.164 | <1    | 2.19  | 0.009 | 0.23  | 0.1   | 0.01  | 3.8   | 0.2   | <0.05 | 6     | <0.5  |
| CHA 85655  | Soil                             | 9     | 37    | 1.18  | 357   | 0.173 | 1     | 2.28  | 0.010 | 0.25  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 7     | <0.5  |
| CHA 85658  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 85654  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 85647  | Soil                             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 128662 | Soil                             | 7     | 13    | 0.81  | 315   | 0.252 | <1    | 2.23  | 0.009 | 0.46  | <0.1  | 0.01  | 8.7   | 0.2   | <0.05 | 9     | <0.5  |
| CHA 85659  | Soil                             | 11    | 31    | 0.82  | 183   | 0.031 | <1    | 2.13  | 0.005 | 0.08  | <0.1  | 0.01  | 2.3   | 0.1   | <0.05 | 8     | <0.5  |
| CHA 85657  | Soil                             | 11    | 51    | 0.62  | 389   | 0.117 | <1    | 1.82  | 0.010 | 0.14  | <0.1  | 0.02  | 3.1   | 0.2   | <0.05 | 9     | <0.5  |
| CHA 85652  | Soil                             | 12    | 26    | 0.54  | 352   | 0.041 | <1    | 1.75  | 0.008 | 0.06  | 0.2   | 0.04  | 2.9   | 0.1   | <0.05 | 6     | <0.5  |
| CHA 85640  | Soil                             | 13    | 31    | 0.45  | 223   | 0.048 | 1     | 1.80  | 0.009 | 0.08  | 0.3   | 0.04  | 2.8   | 0.1   | <0.05 | 5     | 0.6   |
| CHA 85641  | Soil                             | 10    | 26    | 0.18  | 235   | 0.079 | <1    | 0.93  | 0.007 | 0.06  | 0.2   | 0.02  | 1.6   | <0.1  | <0.05 | 8     | <0.5  |
| CHA 85670  | Soil                             | 6     | 28    | 1.66  | 239   | 0.113 | 1     | 2.81  | 0.010 | 0.37  | 0.1   | 0.01  | 13.0  | 0.2   | <0.05 | 10    | <0.5  |
| CHA 85780  | Soil                             | 22    | 91    | 1.10  | 414   | 0.122 | <1    | 2.38  | 0.012 | 0.24  | 0.1   | 0.03  | 6.2   | 0.2   | <0.05 | 8     | 0.8   |
| CHA 85766  | Soil                             | 21    | 15    | 0.65  | 480   | 0.036 | <1    | 1.72  | 0.011 | 0.15  | 0.1   | 0.02  | 3.9   | 0.1   | <0.05 | 7     | <0.5  |
| CHA 85775  | Soil                             | 6     | 32    | 0.81  | 246   | 0.111 | <1    | 2.15  | 0.008 | 0.43  | <0.1  | 0.02  | 8.1   | 0.2   | <0.05 | 7     | <0.5  |
| CHA 85764  | Soil                             | 23    | 28    | 0.51  | 288   | 0.050 | <1    | 1.64  | 0.008 | 0.18  | 0.1   | 0.04  | 2.8   | 0.2   | <0.05 | 6     | <0.5  |
| CHA 85779  | Soil                             | 8     | 24    | 0.70  | 240   | 0.047 | <1    | 2.23  | 0.009 | 0.09  | 0.1   | 0.02  | 3.6   | <0.1  | <0.05 | 6     | <0.5  |
| CHA 85757  | Soil                             | 11    | 28    | 0.53  | 268   | 0.034 | 1     | 1.52  | 0.009 | 0.08  | 0.2   | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| CHA 85776  | Soil                             | 7     | 62    | 0.56  | 104   | 0.077 | <1    | 1.31  | 0.012 | 0.04  | 0.1   | 0.02  | 2.5   | <0.1  | <0.05 | 7     | <0.5  |
| CHA 85781  | Soil                             | 15    | 36    | 0.84  | 361   | 0.059 | 1     | 2.19  | 0.013 | 0.10  | 0.2   | 0.03  | 7.2   | <0.1  | <0.05 | 6     | <0.5  |
| CHA 85758  | Soil                             | 10    | 28    | 0.46  | 232   | 0.033 | 1     | 1.67  | 0.010 | 0.08  | 0.2   | 0.05  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| CHA 85777  | Soil                             | 8     | 82    | 1.33  | 300   | 0.140 | <1    | 2.25  | 0.011 | 0.50  | 0.1   | <0.01 | 7.2   | 0.2   | <0.05 | 7     | <0.5  |
| CHA 85759  | Soil                             | 12    | 30    | 0.52  | 264   | 0.039 | 1     | 1.68  | 0.012 | 0.07  | 0.2   | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| CHA 85761  | Soil                             | 21    | 32    | 0.69  | 330   | 0.049 | 1     | 1.81  | 0.008 | 0.19  | 0.1   | 0.03  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| CHA 111989 | Soil                             | 9     | 20    | 1.26  | 258   | 0.061 | <1    | 2.33  | 0.016 | 0.20  | <0.1  | 0.03  | 9.0   | <0.1  | <0.05 | 7     | <0.5  |
| CHA 111993 | Soil                             | 7     | 26    | 0.78  | 197   | 0.120 | 1     | 2.27  | 0.017 | 0.15  | 0.1   | 0.02  | 3.7   | <0.1  | <0.05 | 7     | <0.5  |
| CHA 111984 | Soil                             | 40    | 52    | 1.05  | 526   | 0.042 | <1    | 1.72  | 0.010 | 0.32  | 0.2   | 0.03  | 6.3   | 0.1   | <0.05 | 6     | 1.7   |
| CHA 111948 | Soil                             | 12    | 41    | 0.92  | 535   | 0.055 | 2     | 1.71  | 0.013 | 0.19  | <0.1  | 0.05  | 5.1   | 0.1   | 0.08  | 6     | <0.5  |
| CHA 111946 | Soil                             | 12    | 29    | 0.84  | 426   | 0.113 | 1     | 2.01  | 0.019 | 0.25  | 0.1   | 0.03  | 5.6   | 0.1   | <0.05 | 6     | <0.5  |
| CHA 111991 | Soil                             | 5     | 21    | 1.32  | 334   | 0.159 | <1    | 2.39  | 0.016 | 0.39  | 0.1   | 0.02  | 6.9   | 0.2   | <0.05 | 9     | <0.5  |



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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|            |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|            |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| CHA 111942 | Soil                             | 1.7   | 61.3  | 9.3   | 140   | <0.1  | 15.7  | 19.8  | 719   | 4.90  | 14.1  | 0.7   | <0.5  | 2.7   | 21    | 0.2   | 0.8   | 0.2   | 107   | 0.45  | 0.070 |
| CHA 111987 | Soil                             | 0.6   | 18.6  | 5.0   | 92    | <0.1  | 7.5   | 13.7  | 395   | 4.31  | 4.1   | 0.6   | <0.5  | 3.6   | 16    | 0.1   | 0.3   | <0.1  | 83    | 0.52  | 0.107 |
| CHA 111945 | Soil                             | 0.8   | 19.5  | 6.9   | 67    | <0.1  | 13.0  | 10.1  | 329   | 3.35  | 5.7   | 0.6   | 1.1   | 2.6   | 17    | <0.1  | 0.4   | 0.1   | 66    | 0.24  | 0.038 |
| CHA 111930 | Soil                             | 1.3   | 33.6  | 14.5  | 97    | <0.1  | 22.2  | 10.0  | 381   | 3.03  | 16.9  | 0.7   | 2.2   | 3.3   | 18    | 0.2   | 0.8   | 0.3   | 64    | 0.33  | 0.038 |
| CHA 111994 | Soil                             | 1.0   | 29.9  | 8.1   | 72    | 0.1   | 23.2  | 11.0  | 483   | 2.73  | 7.7   | 0.6   | 4.3   | 3.5   | 31    | 0.2   | 0.6   | 0.1   | 62    | 0.45  | 0.071 |
| CHA 111988 | Soil                             | 1.0   | 17.8  | 6.0   | 66    | 0.2   | 10.7  | 10.9  | 386   | 3.24  | 9.5   | 0.5   | 1.0   | 2.2   | 17    | 0.2   | 0.6   | 0.1   | 83    | 0.47  | 0.038 |
| CHA 111889 | Soil                             | 0.7   | 43.8  | 4.3   | 79    | <0.1  | 14.1  | 21.1  | 727   | 5.58  | 4.4   | 0.3   | 1.1   | 1.4   | 9     | 0.1   | 0.3   | <0.1  | 167   | 0.24  | 0.071 |
| CHA 111892 | Soil                             | 1.0   | 19.8  | 6.4   | 42    | <0.1  | 10.7  | 7.7   | 240   | 3.11  | 4.9   | 0.2   | 1.2   | 1.1   | 8     | <0.1  | 0.4   | 0.1   | 117   | 0.11  | 0.023 |
| CHA 111898 | Soil                             | 0.9   | 29.0  | 7.6   | 71    | 0.1   | 16.1  | 9.7   | 234   | 2.92  | 6.8   | 0.9   | 1.1   | 2.7   | 20    | 0.2   | 0.4   | 0.1   | 65    | 0.28  | 0.055 |
| CHA 111893 | Soil                             | 0.8   | 52.0  | 7.5   | 69    | 0.1   | 18.7  | 13.3  | 410   | 3.40  | 5.5   | 0.5   | 2.3   | 2.4   | 22    | 0.1   | 0.4   | 0.1   | 91    | 0.49  | 0.037 |
| CHA 111880 | Soil                             | 0.4   | 101.9 | 4.7   | 108   | 0.2   | 14.6  | 23.8  | 1222  | 6.09  | 1.4   | 0.4   | 0.9   | 1.8   | 14    | 0.2   | 0.4   | <0.1  | 150   | 0.57  | 0.162 |
| CHA 112338 | Soil                             | 0.1   | 65.4  | 5.2   | 74    | <0.1  | 11.7  | 33.0  | 1627  | 6.13  | 0.8   | 0.5   | <0.5  | 1.3   | 12    | <0.1  | 0.3   | <0.1  | 99    | 0.29  | 0.049 |
| CHA 111732 | Soil                             | 0.5   | 44.0  | 5.4   | 63    | <0.1  | 16.6  | 16.4  | 749   | 4.11  | 5.6   | 0.6   | <0.5  | 2.9   | 15    | <0.1  | 0.9   | <0.1  | 98    | 0.25  | 0.034 |
| CHA 111883 | Soil                             | 1.0   | 27.5  | 7.3   | 79    | 0.1   | 10.5  | 11.0  | 677   | 4.99  | 6.9   | 0.6   | <0.5  | 3.9   | 7     | 0.1   | 0.4   | 0.1   | 122   | 0.09  | 0.031 |
| CHA 111885 | Soil                             | 0.9   | 23.8  | 6.4   | 56    | <0.1  | 16.0  | 9.9   | 419   | 3.32  | 7.8   | 0.7   | 2.5   | 3.5   | 11    | 0.1   | 0.4   | 0.1   | 75    | 0.11  | 0.028 |
| CHA 111897 | Soil                             | 0.7   | 23.0  | 8.9   | 66    | 0.1   | 15.5  | 11.0  | 317   | 3.29  | 9.6   | 0.6   | 2.1   | 2.5   | 18    | 0.2   | 0.5   | 0.2   | 76    | 0.27  | 0.050 |
| CHA 111891 | Soil                             | 0.7   | 47.2  | 5.4   | 66    | <0.1  | 16.1  | 20.5  | 657   | 4.71  | 6.0   | 0.4   | 0.9   | 2.2   | 14    | <0.1  | 0.4   | <0.1  | 138   | 0.30  | 0.039 |
| CHA 111895 | Soil                             | 0.7   | 28.2  | 8.2   | 65    | 0.2   | 14.0  | 11.8  | 398   | 3.07  | 7.7   | 0.8   | 2.2   | 2.1   | 26    | 0.2   | 0.4   | 0.1   | 78    | 0.47  | 0.051 |
| CHA 111938 | Soil                             | 1.1   | 32.3  | 18.5  | 152   | 0.1   | 11.5  | 10.4  | 435   | 4.16  | 6.5   | 0.5   | 1.5   | 2.7   | 13    | 0.4   | 0.6   | 0.2   | 62    | 0.16  | 0.051 |
| CHA 111937 | Soil                             | 1.4   | 37.3  | 7.6   | 88    | 0.2   | 17.4  | 14.8  | 578   | 3.75  | 4.9   | 0.7   | 1.7   | 2.3   | 15    | 0.1   | 0.3   | 0.2   | 96    | 0.29  | 0.053 |
| CHA 111936 | Soil                             | 3.6   | 36.5  | 11.0  | 98    | 0.1   | 11.4  | 7.8   | 462   | 5.98  | 4.0   | 1.5   | 1.4   | 4.0   | 72    | <0.1  | 0.2   | 0.3   | 157   | 0.36  | 0.089 |
| CHA 111935 | Soil                             | 1.0   | 26.2  | 6.9   | 111   | 0.1   | 25.9  | 14.2  | 620   | 2.92  | 5.4   | 0.9   | 4.1   | 5.1   | 18    | 0.4   | 0.4   | 0.3   | 83    | 0.40  | 0.118 |
| CHA 111940 | Soil                             | 1.3   | 21.4  | 11.8  | 75    | 0.2   | 18.3  | 9.6   | 383   | 3.50  | 14.9  | 0.5   | 1.7   | 2.6   | 12    | 0.2   | 0.8   | 0.2   | 69    | 0.17  | 0.048 |
| CHA 111931 | Soil                             | 1.4   | 26.8  | 12.9  | 86    | 0.2   | 20.0  | 10.6  | 472   | 2.90  | 17.3  | 0.8   | 4.4   | 3.1   | 16    | 0.2   | 0.7   | 0.4   | 56    | 0.20  | 0.053 |
| CHA 111934 | Soil                             | 1.5   | 30.9  | 15.1  | 81    | 0.2   | 16.3  | 10.6  | 676   | 2.75  | 9.8   | 0.6   | 1.4   | 1.6   | 13    | 0.3   | 0.6   | 0.3   | 69    | 0.10  | 0.053 |
| CHA 111932 | Soil                             | 1.7   | 33.3  | 11.3  | 85    | 0.3   | 16.5  | 9.0   | 432   | 4.25  | 9.7   | 0.8   | 5.4   | 3.8   | 17    | 0.1   | 0.5   | 0.4   | 69    | 0.19  | 0.046 |
| CHA 128686 | Soil                             | 0.8   | 25.5  | 8.8   | 58    | 0.1   | 23.5  | 8.3   | 304   | 2.36  | 8.0   | 0.8   | 4.6   | 3.0   | 33    | 0.2   | 0.6   | 0.2   | 48    | 0.49  | 0.072 |
| CHA 111933 | Soil                             | 1.3   | 25.2  | 13.0  | 63    | 0.2   | 17.9  | 6.7   | 214   | 2.54  | 12.6  | 0.9   | 1.4   | 1.4   | 16    | 0.2   | 0.5   | 0.4   | 51    | 0.15  | 0.050 |
| CHA 128975 | Soil                             | 0.7   | 38.9  | 11.3  | 44    | <0.1  | 24.1  | 13.8  | 314   | 2.72  | 6.2   | 0.3   | 2.3   | 1.2   | 52    | 0.1   | 0.4   | 0.3   | 69    | 0.20  | 0.044 |
| CHA 128684 | Soil                             | 0.8   | 30.7  | 9.0   | 71    | 0.1   | 25.8  | 9.7   | 382   | 2.54  | 8.7   | 0.5   | 3.8   | 3.8   | 30    | 0.3   | 0.8   | 0.2   | 49    | 0.58  | 0.076 |



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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 111942 | Soil                             | 8     | 37    | 1.57  | 616   | 0.210 | <1    | 2.74  | 0.017 | 0.68  | <0.1  | 0.01  | 5.3   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111987 | Soil                             | 10    | 17    | 1.21  | 596   | 0.131 | <1    | 2.28  | 0.012 | 0.67  | 0.1   | <0.01 | 9.4   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111945 | Soil                             | 10    | 28    | 0.78  | 304   | 0.126 | <1    | 1.86  | 0.015 | 0.22  | 0.1   | <0.01 | 5.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111930 | Soil                             | 11    | 34    | 0.84  | 246   | 0.077 | 1     | 1.87  | 0.013 | 0.09  | 0.3   | 0.03  | 3.6   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111994 | Soil                             | 13    | 29    | 0.72  | 294   | 0.084 | 1     | 1.48  | 0.030 | 0.10  | 0.2   | 0.02  | 4.3   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 111988 | Soil                             | 10    | 26    | 0.84  | 277   | 0.076 | <1    | 1.72  | 0.010 | 0.26  | <0.1  | 0.03  | 6.7   | 0.1   | <0.05 | 6     | <0.5  | 0.3   |
| CHA 111889 | Soil                             | 5     | 19    | 1.67  | 357   | 0.287 | <1    | 2.72  | 0.014 | 0.98  | 0.1   | 0.02  | 5.9   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111892 | Soil                             | 5     | 18    | 0.63  | 72    | 0.133 | <1    | 1.33  | 0.015 | 0.05  | 0.1   | 0.02  | 3.3   | <0.1  | <0.05 | 8     | <0.5  | <0.2  |
| CHA 111898 | Soil                             | 13    | 33    | 0.73  | 316   | 0.095 | 1     | 1.91  | 0.016 | 0.07  | 0.2   | 0.04  | 4.2   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111893 | Soil                             | 10    | 28    | 0.99  | 386   | 0.098 | 1     | 2.15  | 0.020 | 0.08  | 0.1   | 0.03  | 6.0   | <0.1  | <0.05 | 6     | <0.5  | 0.2   |
| CHA 111880 | Soil                             | 14    | 28    | 1.00  | 623   | 0.125 | <1    | 1.55  | 0.012 | 0.60  | 0.1   | 0.03  | 24.1  | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 112338 | Soil                             | 7     | 11    | 0.81  | 428   | 0.008 | 3     | 1.89  | 0.011 | 0.20  | <0.1  | <0.01 | 18.6  | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 111732 | Soil                             | 11    | 23    | 0.85  | 392   | 0.121 | 1     | 1.63  | 0.018 | 0.31  | <0.1  | 0.02  | 7.3   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 111883 | Soil                             | 12    | 26    | 1.30  | 357   | 0.235 | <1    | 3.16  | 0.009 | 1.06  | <0.1  | 0.01  | 12.0  | 0.8   | <0.05 | 10    | <0.5  | <0.2  |
| CHA 111885 | Soil                             | 12    | 30    | 0.78  | 268   | 0.113 | <1    | 2.29  | 0.014 | 0.25  | 0.1   | 0.03  | 7.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111897 | Soil                             | 11    | 26    | 0.71  | 301   | 0.089 | 2     | 1.92  | 0.015 | 0.09  | 0.1   | 0.04  | 4.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111891 | Soil                             | 9     | 25    | 1.45  | 396   | 0.165 | <1    | 2.61  | 0.016 | 0.36  | 0.1   | 0.01  | 7.9   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 111895 | Soil                             | 11    | 24    | 0.84  | 307   | 0.093 | <1    | 2.04  | 0.017 | 0.11  | 0.1   | 0.04  | 5.3   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111938 | Soil                             | 7     | 21    | 0.97  | 349   | 0.134 | <1    | 2.17  | 0.010 | 0.33  | 0.1   | 0.03  | 3.8   | 0.2   | 0.08  | 8     | 1.0   | <0.2  |
| CHA 111937 | Soil                             | 8     | 51    | 1.58  | 372   | 0.170 | <1    | 2.32  | 0.013 | 0.55  | 0.1   | 0.02  | 5.8   | 0.2   | 0.11  | 9     | 0.7   | <0.2  |
| CHA 111936 | Soil                             | 16    | 219   | 2.08  | 343   | 0.105 | <1    | 2.51  | 0.095 | 0.66  | <0.1  | 0.01  | 15.0  | 0.2   | 0.73  | 9     | 5.0   | 0.3   |
| CHA 111935 | Soil                             | 15    | 59    | 1.41  | 368   | 0.097 | <1    | 2.20  | 0.011 | 0.32  | <0.1  | 0.02  | 5.2   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111940 | Soil                             | 10    | 38    | 0.78  | 205   | 0.044 | <1    | 2.12  | 0.007 | 0.08  | 0.1   | 0.02  | 4.0   | <0.1  | <0.05 | 8     | 0.6   | 0.3   |
| CHA 111931 | Soil                             | 10    | 30    | 0.76  | 198   | 0.060 | 2     | 1.87  | 0.016 | 0.08  | 0.3   | 0.07  | 3.3   | <0.1  | <0.05 | 6     | 0.9   | <0.2  |
| CHA 111934 | Soil                             | 9     | 28    | 0.63  | 177   | 0.079 | <1    | 1.56  | 0.008 | 0.14  | <0.1  | 0.02  | 2.3   | 0.1   | <0.05 | 8     | <0.5  | 0.3   |
| CHA 111932 | Soil                             | 12    | 28    | 1.12  | 298   | 0.041 | 1     | 2.25  | 0.010 | 0.12  | <0.1  | 0.03  | 5.2   | <0.1  | <0.05 | 7     | 1.7   | 0.4   |
| CHA 128686 | Soil                             | 13    | 27    | 0.49  | 301   | 0.059 | <1    | 1.42  | 0.019 | 0.06  | 0.2   | 0.03  | 3.5   | <0.1  | <0.05 | 5     | 0.5   | <0.2  |
| CHA 111933 | Soil                             | 13    | 29    | 0.63  | 222   | 0.033 | 1     | 1.78  | 0.008 | 0.06  | <0.1  | 0.03  | 2.7   | 0.1   | <0.05 | 6     | 1.1   | <0.2  |
| CHA 128975 | Soil                             | 5     | 39    | 0.87  | 195   | 0.099 | <1    | 2.21  | 0.014 | 0.09  | <0.1  | 0.04  | 2.5   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128684 | Soil                             | 13    | 29    | 0.57  | 342   | 0.068 | 1     | 1.41  | 0.024 | 0.09  | 0.2   | 0.03  | 3.6   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            |      | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|------------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|            |      |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P    |
|            |      |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %    |
|            |      |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2     | 0.01 |
| CHA 85768  | Soil | 1.0                              | 19.5  | 10.9  | 55    | <0.1  | 20.7  | 8.5   | 271   | 2.89  | 8.5   | 0.6   | 1.9   | 4.0   | 13    | 0.1   | 0.5   | 0.2   | 62    | 0.15  | 0.017 |      |
| CHA 85752  | Soil | 1.3                              | 38.9  | 21.9  | 94    | <0.1  | 27.0  | 22.5  | 781   | 4.20  | 32.0  | 0.9   | 15.9  | 2.7   | 27    | 0.4   | 2.0   | 0.6   | 85    | 0.47  | 0.152 |      |
| CHA 85773  | Soil | 0.6                              | 37.0  | 7.1   | 95    | <0.1  | 5.7   | 19.0  | 457   | 5.81  | 8.2   | 0.2   | <0.5  | 0.6   | 9     | 0.2   | 0.4   | <0.1  | 186   | 0.22  | 0.076 |      |
| CHA 85772  | Soil | 0.6                              | 47.6  | 6.5   | 93    | <0.1  | 13.8  | 25.9  | 793   | 5.99  | 14.9  | 0.5   | 0.7   | 1.1   | 12    | 0.2   | 0.6   | <0.1  | 190   | 0.23  | 0.045 |      |
| CHA 85774  | Soil | 1.1                              | 22.0  | 8.5   | 81    | 0.4   | 34.8  | 19.6  | 543   | 5.51  | 9.2   | 0.6   | 1.4   | 3.2   | 13    | <0.1  | 0.5   | <0.1  | 148   | 0.29  | 0.057 |      |
| CHA 85770  | Soil | 0.8                              | 51.8  | 7.7   | 80    | 0.1   | 23.8  | 16.4  | 595   | 4.10  | 6.7   | 1.0   | 2.0   | 4.7   | 18    | 0.2   | 0.4   | 0.2   | 85    | 0.33  | 0.087 |      |
| CHA 85771  | Soil | 1.2                              | 66.4  | 13.3  | 169   | <0.1  | 35.0  | 28.0  | 1146  | 6.10  | 6.9   | 1.2   | 1.0   | 4.1   | 20    | 0.3   | 0.5   | 0.2   | 116   | 0.29  | 0.092 |      |
| CHA 85769  | Soil | 1.2                              | 32.5  | 13.0  | 71    | <0.1  | 35.0  | 13.9  | 270   | 3.31  | 9.5   | 1.5   | 2.3   | 8.9   | 11    | 0.3   | 0.7   | 0.2   | 60    | 0.09  | 0.033 |      |
| CHA 85783  | Soil | 1.1                              | 19.6  | 10.1  | 55    | 0.2   | 14.3  | 7.7   | 429   | 2.10  | 6.8   | 0.8   | 1.1   | 1.7   | 44    | 0.3   | 0.5   | 0.2   | 43    | 0.86  | 0.069 |      |
| CHA 85754  | Soil | 1.9                              | 20.3  | 33.2  | 34    | 0.3   | 12.3  | 4.7   | 224   | 2.79  | 12.8  | 0.5   | 6.1   | 0.7   | 13    | 0.3   | 1.9   | 0.4   | 82    | 0.11  | 0.076 |      |
| CHA 85756  | Soil | 0.8                              | 22.0  | 14.4  | 51    | 0.2   | 15.9  | 8.9   | 521   | 2.20  | 10.0  | 0.8   | 2.2   | 1.7   | 21    | 0.2   | 0.8   | 0.9   | 44    | 0.30  | 0.071 |      |
| CHA 85753  | Soil | 2.5                              | 38.5  | 204.2 | 48    | 0.9   | 15.3  | 12.5  | 524   | 3.24  | 34.6  | 1.1   | 15.7  | 0.8   | 41    | 0.1   | 2.5   | 1.0   | 63    | 0.48  | 0.134 |      |
| CHA 128995 | Soil | 0.6                              | 46.0  | 3.9   | 46    | <0.1  | 8.8   | 14.5  | 330   | 4.70  | 3.8   | 0.2   | 2.3   | 0.7   | 4     | <0.1  | 0.2   | <0.1  | 163   | 0.15  | 0.033 |      |
| CHA 128983 | Soil | 1.1                              | 13.9  | 12.3  | 44    | <0.1  | 15.5  | 6.1   | 202   | 2.83  | 9.0   | 0.7   | 1.2   | 3.1   | 13    | 0.2   | 0.6   | 0.2   | 70    | 0.09  | 0.033 |      |
| CHA 128996 | Soil | 0.9                              | 14.6  | 10.6  | 49    | <0.1  | 14.7  | 10.0  | 382   | 3.68  | 7.6   | 0.3   | 0.7   | 1.9   | 13    | 0.2   | 0.5   | 0.2   | 107   | 0.15  | 0.027 |      |
| CHA 128987 | Soil | 0.9                              | 11.6  | 11.3  | 38    | <0.1  | 14.1  | 5.9   | 161   | 2.91  | 9.8   | 0.6   | 2.0   | 3.0   | 16    | <0.1  | 0.5   | 0.2   | 60    | 0.14  | 0.033 |      |
| CHA 128668 | Soil | 0.1                              | 1.8   | 2.2   | 51    | <0.1  | 14.1  | 14.6  | 750   | 3.33  | 0.6   | 0.1   | <0.5  | 0.7   | 13    | <0.1  | <0.1  | <0.1  | 51    | 0.29  | 0.089 |      |
| CHA 128671 | Soil | 1.1                              | 155.7 | 347.3 | 191   | 0.1   | 35.0  | 18.7  | 1021  | 2.94  | 57.1  | 1.5   | 2.2   | 4.2   | 8     | 0.3   | 4.9   | 2.8   | 50    | 0.07  | 0.019 |      |
| CHA 128667 | Soil | 0.3                              | 28.9  | 5.4   | 58    | <0.1  | 20.8  | 15.3  | 843   | 4.54  | 10.2  | 1.0   | <0.5  | 5.3   | 23    | 0.1   | 0.5   | 0.1   | 66    | 0.43  | 0.079 |      |
| CHA 128991 | Soil | 0.9                              | 33.5  | 12.9  | 58    | 0.1   | 9.5   | 12.8  | 493   | 4.85  | 4.9   | 0.4   | 5.7   | 1.1   | 13    | 0.2   | 0.3   | 0.2   | 179   | 0.17  | 0.035 |      |
| CHA 128988 | Soil | 1.2                              | 22.3  | 14.7  | 52    | 0.2   | 17.1  | 11.1  | 342   | 3.35  | 7.7   | 0.6   | 3.4   | 2.4   | 12    | 0.2   | 0.4   | 0.2   | 79    | 0.12  | 0.031 |      |
| CHA 128986 | Soil | 1.6                              | 13.7  | 17.5  | 54    | 0.1   | 16.4  | 7.2   | 190   | 2.82  | 8.3   | 0.4   | 1.9   | 1.9   | 12    | 0.3   | 0.7   | 0.3   | 59    | 0.09  | 0.035 |      |
| CHA 128669 | Soil | 0.1                              | 8.9   | 2.8   | 38    | <0.1  | 22.6  | 12.5  | 456   | 2.41  | 0.7   | 1.0   | 0.7   | 6.2   | 11    | <0.1  | <0.1  | <0.1  | 42    | 0.24  | 0.090 |      |
| CHA 128990 | Soil | 0.8                              | 34.3  | 9.2   | 45    | <0.1  | 16.7  | 10.4  | 359   | 2.66  | 6.6   | 0.5   | 3.5   | 1.5   | 18    | 0.1   | 0.4   | 0.2   | 64    | 0.20  | 0.042 |      |
| CHA 111990 | Soil | 0.4                              | 53.1  | 3.1   | 79    | 0.1   | 10.1  | 21.0  | 1005  | 5.00  | 7.1   | 0.5   | 2.0   | 1.7   | 16    | 0.2   | 0.3   | <0.1  | 149   | 0.53  | 0.081 |      |
| CHA 111985 | Soil | 0.6                              | 37.3  | 9.8   | 61    | 0.2   | 20.9  | 13.0  | 704   | 3.06  | 8.7   | 1.6   | 2.7   | 3.2   | 29    | 0.2   | 0.7   | 0.1   | 66    | 1.12  | 0.039 |      |
| CHA 111986 | Soil | 1.0                              | 55.5  | 18.0  | 117   | 0.2   | 32.3  | 22.2  | 1335  | 4.33  | 12.6  | 1.1   | 2.1   | 2.3   | 27    | 0.5   | 1.7   | 0.1   | 91    | 1.41  | 0.102 |      |
| CHA 111983 | Soil | 1.1                              | 35.2  | 11.2  | 71    | 0.1   | 23.4  | 13.3  | 553   | 2.99  | 6.2   | 0.9   | <0.5  | 2.1   | 40    | 0.2   | 0.5   | 0.2   | 63    | 1.83  | 0.054 |      |
| CHA 111949 | Soil | 3.2                              | 52.5  | 16.0  | 141   | 0.1   | 23.6  | 16.2  | 814   | 4.79  | 13.6  | 0.7   | 0.7   | 4.5   | 31    | 0.1   | 0.5   | 0.2   | 107   | 0.78  | 0.062 |      |
| CHA 111944 | Soil | 1.5                              | 41.9  | 11.0  | 115   | <0.1  | 10.8  | 18.2  | 491   | 5.19  | 7.7   | 0.3   | <0.5  | 1.6   | 11    | 0.1   | 0.6   | 0.1   | 99    | 0.20  | 0.096 |      |



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September 02, 2010

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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 85768  | Soil                             | 13    | 32    | 0.60  | 178   | 0.075 | 2     | 1.98  | 0.009 | 0.08  | 0.1   | 0.02  | 3.4   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85752  | Soil                             | 21    | 21    | 0.84  | 387   | 0.068 | <1    | 2.06  | 0.012 | 0.37  | 0.2   | 0.07  | 5.7   | 0.7   | <0.05 | 7     | 0.6   | 0.4   |
| CHA 85773  | Soil                             | 2     | 11    | 1.29  | 335   | 0.260 | <1    | 3.02  | 0.011 | 0.85  | 0.2   | 0.01  | 5.6   | 0.3   | <0.05 | 10    | 0.5   | <0.2  |
| CHA 85772  | Soil                             | 4     | 22    | 1.58  | 374   | 0.156 | <1    | 3.00  | 0.014 | 0.34  | <0.1  | 0.02  | 9.5   | 0.2   | <0.05 | 9     | 0.6   | 0.4   |
| CHA 85774  | Soil                             | 15    | 101   | 1.61  | 406   | 0.144 | <1    | 2.72  | 0.007 | 0.30  | <0.1  | 0.03  | 15.2  | 0.2   | <0.05 | 10    | <0.5  | 0.3   |
| CHA 85770  | Soil                             | 13    | 80    | 1.45  | 432   | 0.094 | <1    | 2.46  | 0.012 | 0.21  | 0.1   | 0.02  | 8.2   | 0.1   | <0.05 | 7     | 1.0   | <0.2  |
| CHA 85771  | Soil                             | 15    | 147   | 2.15  | 912   | 0.140 | <1    | 3.58  | 0.014 | 0.68  | <0.1  | 0.02  | 11.4  | 0.3   | <0.05 | 11    | 0.7   | 0.3   |
| CHA 85769  | Soil                             | 20    | 36    | 0.63  | 143   | 0.077 | <1    | 2.54  | 0.008 | 0.24  | 0.2   | 0.03  | 3.2   | 0.2   | <0.05 | 6     | 0.9   | 0.4   |
| CHA 85783  | Soil                             | 8     | 24    | 0.46  | 260   | 0.040 | <1    | 1.32  | 0.014 | 0.05  | 0.2   | 0.04  | 3.2   | <0.1  | 0.06  | 4     | 0.9   | <0.2  |
| CHA 85754  | Soil                             | 8     | 22    | 0.22  | 163   | 0.054 | 1     | 1.11  | 0.009 | 0.07  | 0.2   | 0.09  | 2.1   | 0.1   | 0.08  | 7     | 0.6   | <0.2  |
| CHA 85756  | Soil                             | 12    | 24    | 0.40  | 303   | 0.031 | <1    | 1.40  | 0.010 | 0.07  | 0.2   | 0.04  | 2.1   | <0.1  | <0.05 | 5     | 0.6   | <0.2  |
| CHA 85753  | Soil                             | 13    | 22    | 0.47  | 838   | 0.018 | 2     | 1.54  | 0.019 | 0.12  | 0.2   | 0.14  | 3.7   | 0.3   | 0.18  | 5     | 1.5   | 0.3   |
| CHA 128995 | Soil                             | 2     | 14    | 1.02  | 97    | 0.077 | <1    | 2.07  | 0.020 | 0.10  | <0.1  | 0.03  | 7.6   | <0.1  | <0.05 | 9     | 0.5   | <0.2  |
| CHA 128983 | Soil                             | 10    | 33    | 0.35  | 154   | 0.048 | <1    | 2.40  | 0.008 | 0.03  | 0.2   | 0.03  | 3.3   | 0.1   | <0.05 | 7     | <0.5  | 0.3   |
| CHA 128996 | Soil                             | 7     | 24    | 0.56  | 286   | 0.091 | 1     | 2.01  | 0.010 | 0.06  | 0.1   | 0.03  | 3.0   | 0.1   | <0.05 | 8     | <0.5  | 0.4   |
| CHA 128987 | Soil                             | 10    | 29    | 0.41  | 150   | 0.052 | 1     | 1.88  | 0.008 | 0.05  | 0.1   | 0.03  | 2.5   | <0.1  | <0.05 | 6     | 0.8   | 0.3   |
| CHA 128668 | Soil                             | 2     | 72    | 1.70  | 537   | 0.249 | <1    | 2.57  | 0.016 | 0.96  | 0.1   | <0.01 | 2.0   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128671 | Soil                             | 15    | 25    | 0.46  | 88    | 0.051 | <1    | 1.64  | 0.004 | 0.04  | <0.1  | 0.07  | 7.1   | 0.1   | <0.05 | 6     | 0.8   | 0.7   |
| CHA 128667 | Soil                             | 23    | 28    | 1.33  | 843   | 0.069 | <1    | 2.11  | 0.011 | 0.51  | <0.1  | 0.01  | 8.8   | 0.2   | <0.05 | 9     | <0.5  | 0.6   |
| CHA 128991 | Soil                             | 6     | 19    | 1.49  | 375   | 0.208 | <1    | 2.66  | 0.011 | 0.58  | <0.1  | 0.02  | 5.9   | 0.4   | <0.05 | 10    | 0.8   | <0.2  |
| CHA 128988 | Soil                             | 9     | 27    | 0.56  | 260   | 0.077 | <1    | 2.15  | 0.008 | 0.08  | <0.1  | 0.02  | 3.9   | 0.2   | <0.05 | 8     | 0.6   | <0.2  |
| CHA 128986 | Soil                             | 7     | 25    | 0.28  | 245   | 0.043 | <1    | 2.01  | 0.008 | 0.04  | 0.1   | 0.05  | 2.0   | <0.1  | <0.05 | 6     | 0.5   | <0.2  |
| CHA 128669 | Soil                             | 33    | 52    | 1.27  | 309   | 0.193 | <1    | 1.93  | 0.010 | 0.94  | <0.1  | <0.01 | 1.4   | 0.4   | <0.05 | 5     | <0.5  | 0.3   |
| CHA 128990 | Soil                             | 8     | 25    | 0.68  | 207   | 0.077 | 1     | 1.54  | 0.013 | 0.07  | 0.1   | 0.03  | 2.7   | 0.1   | <0.05 | 5     | <0.5  | 0.3   |
| CHA 111990 | Soil                             | 7     | 18    | 1.83  | 851   | 0.125 | <1    | 2.65  | 0.011 | 0.56  | 0.1   | <0.01 | 15.6  | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111985 | Soil                             | 24    | 34    | 0.84  | 796   | 0.094 | 1     | 1.84  | 0.012 | 0.22  | 0.2   | 0.05  | 5.4   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111986 | Soil                             | 11    | 51    | 1.87  | 661   | 0.105 | <1    | 2.08  | 0.010 | 0.29  | 0.2   | 0.04  | 6.5   | 0.4   | <0.05 | 7     | 0.6   | <0.2  |
| CHA 111983 | Soil                             | 13    | 41    | 1.05  | 612   | 0.091 | 2     | 1.71  | 0.012 | 0.26  | <0.1  | 0.04  | 4.6   | 0.2   | 0.09  | 6     | 0.8   | <0.2  |
| CHA 111949 | Soil                             | 14    | 76    | 2.25  | 855   | 0.136 | 1     | 2.77  | 0.015 | 0.72  | 0.2   | 0.02  | 10.3  | 0.3   | 0.22  | 9     | 0.8   | <0.2  |
| CHA 111944 | Soil                             | 4     | 31    | 1.10  | 294   | 0.245 | <1    | 2.49  | 0.014 | 0.70  | 0.1   | <0.01 | 6.8   | 0.3   | <0.05 | 10    | 0.8   | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      |
|------------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
|            |                                  | Mo         | Cu         | Pb         | Zn       | Ag         | Ni         | Co         | Mn       | Fe        | As         | U          | Au         | Th         | Sr       | Cd         | Sb         | Bi         | V        | Ca        | P          |
|            |                                  | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| CHA 111992 | Soil                             | 0.6        | 49.7       | 5.0        | 75       | <0.1       | 14.5       | 25.3       | 1175     | 5.59      | 4.2        | 0.5        | <0.5       | 1.5        | 17       | <0.1       | 0.6        | <0.1       | 169      | 0.58      | 0.036      |
| CHA 111950 | Soil                             | 1.9        | 47.4       | 8.6        | 89       | 0.2        | 26.5       | 15.3       | 448      | 3.78      | 12.0       | 1.1        | 0.8        | 3.5        | 18       | 0.1        | 0.5        | 0.2        | 78       | 0.45      | 0.045      |
| CHA 111941 | Soil                             | 0.9        | 32.2       | 8.2        | 86       | <0.1       | 23.5       | 12.7       | 367      | 3.09      | 10.2       | 0.4        | <0.5       | 2.5        | 15       | 0.1        | 0.6        | 0.1        | 68       | 0.27      | 0.041      |
| CHA 111943 | Soil                             | 2.3        | 148.0      | 76.7       | 184      | 0.5        | 12.6       | 15.8       | 453      | 5.91      | 14.6       | 1.2        | 1.0        | 3.1        | 27       | 0.5        | 1.0        | 0.6        | 84       | 0.39      | 0.084      |
| CHA 111939 | Soil                             | 1.2        | 22.2       | 10.1       | 56       | 0.1        | 13.1       | 8.9        | 264      | 2.93      | 7.2        | 0.5        | 1.0        | 1.8        | 12       | 0.2        | 0.5        | 0.2        | 72       | 0.13      | 0.028      |
| CHA 111947 | Soil                             | 0.8        | 31.3       | 8.9        | 69       | 0.1        | 26.1       | 11.2       | 435      | 2.59      | 8.5        | 0.7        | 10.4       | 3.4        | 33       | 0.2        | 0.6        | 0.1        | 57       | 0.55      | 0.076      |
| CHA 128969 | Soil                             | 0.8        | 35.8       | 13.6       | 57       | <0.1       | 19.9       | 10.0       | 276      | 3.36      | 12.6       | 0.7        | 4.3        | 3.0        | 16       | 0.2        | 0.5        | 0.3        | 83       | 0.18      | 0.030      |
| CHA 128973 | Soil                             | 1.1        | 36.1       | 10.0       | 39       | <0.1       | 11.9       | 8.6        | 220      | 3.03      | 8.6        | 0.3        | <0.5       | 1.3        | 72       | 0.1        | 0.8        | 0.2        | 81       | 0.14      | 0.030      |
| CHA 128966 | Soil                             | 1.2        | 22.2       | 14.8       | 67       | 0.1        | 23.7       | 14.3       | 308      | 3.61      | 15.6       | 0.6        | 5.2        | 2.3        | 19       | 0.3        | 0.6        | 0.3        | 80       | 0.21      | 0.043      |
| CHA 128979 | Soil                             | 0.8        | 7.6        | 6.3        | 16       | <0.1       | 4.7        | 2.2        | 64       | 1.14      | 1.4        | 0.3        | 1.1        | 0.1        | 23       | <0.1       | 0.2        | 0.1        | 37       | 0.09      | 0.022      |
| CHA 128680 | Soil                             | 0.7        | 31.9       | 8.5        | 72       | <0.1       | 23.3       | 12.7       | 394      | 3.04      | 7.6        | 0.6        | 2.2        | 3.5        | 27       | 0.1        | 0.5        | 0.1        | 72       | 0.38      | 0.067      |
| CHA 128965 | Soil                             | 1.3        | 28.2       | 10.9       | 22       | 0.3        | 15.7       | 3.7        | 108      | 1.09      | 4.2        | 1.5        | 1.1        | 0.1        | 22       | 0.9        | 0.3        | 0.2        | 24       | 0.16      | 0.152      |
| CHA 128970 | Soil                             | 0.9        | 19.8       | 10.9       | 48       | <0.1       | 16.5       | 10.3       | 278      | 3.21      | 7.4        | 0.6        | 2.8        | 2.1        | 39       | 0.1        | 0.4        | 0.4        | 86       | 0.30      | 0.072      |
| CHA 128682 | Soil                             | 0.9        | 37.0       | 9.0        | 85       | 0.1        | 24.8       | 12.8       | 398      | 2.91      | 7.7        | 0.9        | 1.9        | 3.4        | 32       | 0.3        | 0.7        | 0.2        | 68       | 0.49      | 0.057      |
| CHA 128688 | Soil                             | 1.1        | 24.7       | 8.5        | 63       | <0.1       | 22.8       | 10.8       | 273      | 2.91      | 8.3        | 0.5        | 3.0        | 3.5        | 20       | 0.2        | 0.6        | 0.2        | 67       | 0.21      | 0.039      |
| CHA 128689 | Soil                             | 1.0        | 25.0       | 8.8        | 63       | <0.1       | 21.9       | 10.6       | 292      | 2.92      | 8.0        | 0.5        | 2.9        | 3.5        | 21       | 0.1        | 0.6        | 0.2        | 67       | 0.23      | 0.041      |
| CHA 128683 | Soil                             | 1.0        | 43.7       | 9.0        | 74       | 0.2        | 24.6       | 11.9       | 351      | 2.70      | 8.6        | 0.6        | 4.5        | 3.3        | 35       | 0.4        | 0.7        | 0.2        | 63       | 0.57      | 0.061      |
| CHA 128679 | Soil                             | 0.7        | 40.7       | 8.3        | 83       | <0.1       | 26.1       | 20.6       | 632      | 4.50      | 5.1        | 0.6        | 0.6        | 3.0        | 20       | <0.1       | 0.6        | 0.2        | 104      | 0.24      | 0.023      |
| CHA 128974 | Soil                             | 0.9        | 15.1       | 10.1       | 32       | <0.1       | 10.1       | 6.5        | 214      | 2.90      | 6.9        | 0.6        | 155.9      | 2.9        | 13       | 0.1        | 0.4        | 0.4        | 74       | 0.11      | 0.032      |
| CHA 128978 | Soil                             | 0.9        | 13.5       | 12.5       | 41       | <0.1       | 8.4        | 4.1        | 137      | 1.55      | 3.9        | 0.4        | 1.9        | 0.1        | 15       | 0.4        | 0.4        | 0.2        | 36       | 0.13      | 0.057      |
| CHA 128967 | Soil                             | 1.1        | 29.6       | 12.9       | 55       | 0.3        | 19.7       | 10.7       | 228      | 2.95      | 12.4       | 0.9        | 5.2        | 0.9        | 20       | 0.2        | 0.5        | 0.3        | 79       | 0.20      | 0.052      |
| CHA 128977 | Soil                             | 0.7        | 8.0        | 11.6       | 20       | 0.2        | 8.3        | 2.5        | 50       | 0.96      | 2.9        | 0.4        | 4.0        | 0.3        | 44       | 0.1        | 0.3        | 0.2        | 24       | 0.15      | 0.048      |
| CHA 128976 | Soil                             | 1.2        | 25.8       | 17.6       | 76       | 0.1        | 30.5       | 12.3       | 429      | 3.03      | 12.5       | 0.6        | 2.9        | 3.0        | 16       | 0.3        | 0.7        | 0.3        | 66       | 0.14      | 0.031      |
| CHA 128685 | Soil                             | 0.9        | 26.1       | 8.3        | 61       | 0.1        | 23.6       | 10.2       | 404      | 2.39      | 8.2        | 0.8        | 4.8        | 3.1        | 39       | 0.3        | 0.8        | 0.1        | 52       | 0.64      | 0.077      |
| CHA 128687 | Soil                             | 0.8        | 33.8       | 8.4        | 74       | 0.1        | 27.6       | 10.6       | 380      | 2.65      | 9.7        | 0.5        | 7.6        | 4.1        | 32       | 0.3        | 0.7        | 0.1        | 56       | 0.52      | 0.083      |
| CHA 128681 | Soil                             | 0.8        | 50.5       | 7.2        | 73       | <0.1       | 26.6       | 20.1       | 583      | 4.34      | 6.9        | 0.5        | 1.5        | 3.5        | 23       | <0.1       | 1.3        | 0.1        | 97       | 0.31      | 0.033      |
| CHA 128971 | Soil                             | 0.5        | 32.0       | 8.5        | 67       | <0.1       | 17.1       | 14.9       | 338      | 4.19      | 7.9        | 0.8        | 21.1       | 2.8        | 29       | 0.2        | 0.5        | 0.8        | 102      | 0.25      | 0.025      |
| CHA 128972 | Soil                             | 1.6        | 50.6       | 7.1        | 49       | <0.1       | 11.8       | 11.6       | 277      | 3.13      | 8.9        | 0.7        | 0.9        | 3.3        | 61       | 0.1        | 0.7        | 0.7        | 94       | 0.15      | 0.049      |
| CHA 128980 | Soil                             | 0.9        | 23.7       | 8.0        | 62       | <0.1       | 20.1       | 10.3       | 240      | 2.73      | 5.8        | 0.6        | 5.0        | 3.6        | 44       | 0.2        | 0.5        | 0.1        | 80       | 0.47      | 0.100      |
| CHA 128968 | Soil                             | 1.0        | 31.8       | 17.5       | 56       | <0.1       | 14.6       | 11.8       | 337      | 3.55      | 19.1       | 0.6        | 14.1       | 2.7        | 17       | 0.2        | 0.8        | 0.6        | 85       | 0.15      | 0.039      |



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Report Date:

September 02, 2010

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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 111992 | Soil                             | 6     | 22    | 1.86  | 482   | 0.146 | <1    | 2.88  | 0.012 | 0.32  | 0.2   | 0.02  | 14.9  | 0.1   | <0.05 | 10    | <0.5  | <0.2  |
| CHA 111950 | Soil                             | 15    | 70    | 1.25  | 532   | 0.138 | <1    | 2.24  | 0.011 | 0.38  | <0.1  | 0.03  | 6.9   | 0.2   | <0.05 | 7     | 0.8   | <0.2  |
| CHA 111941 | Soil                             | 8     | 71    | 1.05  | 247   | 0.138 | <1    | 1.96  | 0.010 | 0.13  | 0.1   | <0.01 | 3.4   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111943 | Soil                             | 12    | 38    | 1.43  | 551   | 0.118 | <1    | 2.74  | 0.025 | 0.28  | <0.1  | 0.03  | 8.3   | 0.1   | 0.25  | 8     | 3.0   | <0.2  |
| CHA 111939 | Soil                             | 9     | 46    | 0.63  | 230   | 0.095 | <1    | 1.71  | 0.009 | 0.08  | 0.1   | 0.01  | 3.6   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111947 | Soil                             | 13    | 32    | 0.59  | 369   | 0.070 | 2     | 1.53  | 0.018 | 0.06  | 0.3   | 0.03  | 3.9   | <0.1  | <0.05 | 5     | 0.8   | <0.2  |
| CHA 128969 | Soil                             | 10    | 35    | 0.66  | 207   | 0.089 | 2     | 2.20  | 0.009 | 0.13  | 0.2   | 0.03  | 4.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128973 | Soil                             | 5     | 20    | 0.45  | 138   | 0.109 | <1    | 1.70  | 0.011 | 0.14  | 0.1   | 0.03  | 2.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128966 | Soil                             | 10    | 31    | 0.70  | 178   | 0.078 | 2     | 2.13  | 0.011 | 0.09  | 0.2   | 0.04  | 4.6   | 0.1   | <0.05 | 6     | 0.7   | <0.2  |
| CHA 128979 | Soil                             | 5     | 11    | 0.12  | 61    | 0.038 | <1    | 0.67  | 0.011 | 0.03  | <0.1  | <0.01 | 0.5   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 128680 | Soil                             | 12    | 36    | 0.84  | 378   | 0.126 | 1     | 1.81  | 0.016 | 0.20  | 0.2   | 0.02  | 5.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128965 | Soil                             | 12    | 18    | 0.09  | 337   | 0.007 | 1     | 0.84  | 0.012 | 0.05  | <0.1  | 0.09  | 0.5   | <0.1  | 0.11  | 2     | 0.6   | <0.2  |
| CHA 128970 | Soil                             | 11    | 33    | 0.65  | 168   | 0.095 | 1     | 2.28  | 0.019 | 0.08  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 128682 | Soil                             | 12    | 37    | 0.83  | 365   | 0.108 | 1     | 2.00  | 0.025 | 0.13  | 0.2   | 0.03  | 4.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128688 | Soil                             | 11    | 31    | 0.57  | 251   | 0.073 | 1     | 1.65  | 0.013 | 0.10  | 0.2   | 0.01  | 3.3   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128689 | Soil                             | 11    | 33    | 0.58  | 246   | 0.078 | 1     | 1.70  | 0.015 | 0.09  | 0.2   | 0.02  | 3.3   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128683 | Soil                             | 12    | 33    | 0.73  | 316   | 0.093 | <1    | 1.85  | 0.037 | 0.10  | 0.2   | 0.04  | 4.3   | <0.1  | <0.05 | 5     | 0.5   | <0.2  |
| CHA 128679 | Soil                             | 10    | 59    | 1.56  | 513   | 0.147 | 1     | 2.75  | 0.013 | 0.35  | 0.1   | 0.02  | 6.9   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 128974 | Soil                             | 10    | 24    | 0.41  | 148   | 0.093 | 1     | 1.75  | 0.012 | 0.08  | 0.1   | 0.03  | 3.1   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 128978 | Soil                             | 7     | 14    | 0.21  | 174   | 0.034 | <1    | 1.03  | 0.016 | 0.03  | <0.1  | 0.02  | 0.9   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 128967 | Soil                             | 10    | 30    | 0.66  | 245   | 0.059 | 3     | 2.02  | 0.011 | 0.09  | 0.1   | 0.04  | 4.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128977 | Soil                             | 6     | 14    | 0.12  | 311   | 0.027 | 3     | 0.62  | 0.009 | 0.04  | <0.1  | 0.06  | 1.2   | <0.1  | 0.06  | 3     | <0.5  | <0.2  |
| CHA 128976 | Soil                             | 10    | 35    | 0.60  | 186   | 0.080 | 2     | 2.49  | 0.012 | 0.09  | 0.1   | 0.04  | 3.4   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128685 | Soil                             | 14    | 26    | 0.50  | 374   | 0.069 | 2     | 1.30  | 0.021 | 0.06  | 0.3   | 0.03  | 3.2   | <0.1  | <0.05 | 4     | 0.6   | <0.2  |
| CHA 128687 | Soil                             | 14    | 30    | 0.59  | 309   | 0.080 | 3     | 1.33  | 0.025 | 0.09  | 0.3   | 0.03  | 3.6   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| CHA 128681 | Soil                             | 11    | 48    | 1.30  | 486   | 0.125 | <1    | 2.21  | 0.015 | 0.23  | 0.2   | 0.04  | 9.1   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128971 | Soil                             | 16    | 22    | 1.10  | 166   | 0.121 | 1     | 2.32  | 0.014 | 0.19  | <0.1  | 0.02  | 7.2   | 0.2   | <0.05 | 7     | <0.5  | 0.2   |
| CHA 128972 | Soil                             | 9     | 22    | 0.71  | 248   | 0.158 | <1    | 1.71  | 0.016 | 0.57  | 0.1   | <0.01 | 6.3   | 0.3   | 0.09  | 7     | 0.8   | 0.2   |
| CHA 128980 | Soil                             | 14    | 27    | 0.75  | 218   | 0.118 | 2     | 1.73  | 0.029 | 0.14  | 0.2   | 0.03  | 3.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128968 | Soil                             | 11    | 23    | 0.81  | 174   | 0.111 | 6     | 1.86  | 0.011 | 0.26  | 0.2   | 0.01  | 5.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| CHA 85782  | Soil   |         |      |     | 0.9   | 39.6  | 7.8   | 72    | 0.2   | 22.3  | 9.3   | 420   | 2.24  | 9.1   | 1.0   | 2.9   | 1.7   | 50    | 0.4   | 0.8   | 0.2   | 42    | 1.19 | 0.068 |
| CHA 85760  | Soil   |         |      |     | 0.6   | 18.7  | 10.2  | 53    | 0.1   | 15.8  | 8.6   | 246   | 2.12  | 6.7   | 0.6   | 18.9  | 1.5   | 15    | 0.1   | 0.5   | 0.3   | 46    | 0.22 | 0.053 |
| CHA 128999 | Soil   |         |      |     | 0.4   | 9.6   | 3.7   | 18    | <0.1  | 3.7   | 3.2   | 90    | 1.14  | 1.7   | 0.2   | 0.8   | 0.1   | 7     | <0.1  | 0.1   | <0.1  | 37    | 0.08 | 0.022 |
| CHA 128981 | Soil   |         |      |     | 0.6   | 10.5  | 4.1   | 25    | 0.1   | 6.2   | 3.8   | 135   | 1.13  | 1.8   | 0.2   | 1.2   | <0.1  | 18    | 0.3   | 0.2   | 0.1   | 29    | 0.10 | 0.033 |
| CHA 85767  | Soil   |         |      |     | 0.8   | 20.9  | 11.9  | 60    | <0.1  | 16.5  | 8.6   | 344   | 2.66  | 7.0   | 0.5   | 0.7   | 4.4   | 14    | 0.1   | 0.5   | 0.2   | 52    | 0.18 | 0.019 |
| CHA 85755  | Soil   |         |      |     | 1.4   | 19.4  | 18.6  | 55    | 0.2   | 14.5  | 10.5  | 434   | 2.54  | 14.6  | 0.7   | 3.8   | 1.5   | 22    | 0.2   | 1.1   | 0.4   | 58    | 0.25 | 0.067 |
| CHA 85765  | Soil   |         |      |     | 0.7   | 19.1  | 13.3  | 62    | 0.2   | 16.9  | 7.6   | 217   | 2.47  | 7.9   | 0.9   | 4.7   | 2.6   | 26    | 0.1   | 0.5   | 0.3   | 42    | 0.29 | 0.059 |
| CHA 128997 | Soil   |         |      |     | 1.1   | 26.2  | 9.8   | 51    | 0.1   | 18.8  | 11.2  | 326   | 3.31  | 8.7   | 0.5   | 3.5   | 2.5   | 14    | <0.1  | 0.6   | 0.2   | 86    | 0.16 | 0.020 |
| CHA 85778  | Soil   |         |      |     | 2.8   | 80.4  | 16.4  | 160   | <0.1  | 42.2  | 26.4  | 671   | 3.45  | 13.6  | 1.5   | 2.7   | 5.0   | 24    | 0.6   | 1.0   | 0.3   | 71    | 0.20 | 0.036 |
| CHA 128998 | Soil   |         |      |     | 0.9   | 24.3  | 8.0   | 48    | <0.1  | 20.0  | 12.5  | 298   | 3.27  | 9.6   | 0.4   | 1.0   | 2.2   | 13    | 0.1   | 0.5   | 0.1   | 78    | 0.15 | 0.028 |
| CHA 128985 | Soil   |         |      |     | 2.4   | 21.4  | 7.3   | 48    | <0.1  | 20.5  | 11.4  | 308   | 3.72  | 7.0   | 0.4   | 2.3   | 1.8   | 27    | 0.1   | 0.5   | 0.1   | 90    | 0.24 | 0.054 |
| CHA 128984 | Soil   |         |      |     | 0.8   | 26.3  | 8.3   | 49    | 0.1   | 20.0  | 8.5   | 281   | 2.80  | 4.9   | 0.6   | 4.3   | 1.5   | 54    | 0.1   | 0.4   | 0.2   | 75    | 0.44 | 0.083 |
| CHA 128675 | Soil   |         |      |     | 0.5   | 26.6  | 5.5   | 92    | <0.1  | 20.2  | 18.1  | 523   | 4.23  | 3.5   | 0.4   | 0.7   | 2.4   | 15    | 0.3   | 0.8   | 0.2   | 109   | 0.15 | 0.018 |
| CHA 128676 | Soil   |         |      |     | 0.8   | 54.2  | 14.2  | 131   | <0.1  | 14.4  | 13.0  | 471   | 3.78  | 7.2   | 0.6   | 1.8   | 2.8   | 12    | 0.3   | 1.0   | 0.3   | 89    | 0.11 | 0.018 |
| CHA 128674 | Soil   |         |      |     | 0.6   | 48.4  | 6.9   | 101   | <0.1  | 19.3  | 16.6  | 835   | 4.24  | 3.4   | 0.7   | 0.6   | 4.4   | 9     | 0.1   | 0.3   | 0.3   | 122   | 0.12 | 0.048 |
| CHA 128670 | Soil   |         |      |     | 0.4   | 35.8  | 16.3  | 86    | <0.1  | 27.1  | 14.1  | 550   | 3.42  | 5.8   | 0.9   | 0.7   | 13.9  | 8     | 0.2   | 0.4   | 0.1   | 33    | 0.12 | 0.054 |
| CHA 128677 | Soil   |         |      |     | 0.7   | 49.0  | 10.5  | 112   | <0.1  | 13.4  | 12.7  | 561   | 3.25  | 5.4   | 0.4   | 2.3   | 2.2   | 20    | 0.2   | 0.4   | 0.2   | 89    | 0.25 | 0.027 |
| CHA 128672 | Soil   |         |      |     | 0.3   | 20.2  | 17.8  | 88    | <0.1  | 27.1  | 12.1  | 554   | 4.12  | 4.1   | 1.2   | <0.5  | 12.7  | 16    | 0.2   | 0.3   | 0.2   | 59    | 0.20 | 0.045 |
| CHA 128678 | Soil   |         |      |     | 1.1   | 43.6  | 21.1  | 109   | <0.1  | 19.9  | 11.5  | 436   | 3.72  | 8.3   | 0.5   | 2.0   | 2.8   | 16    | 0.2   | 0.7   | 0.3   | 86    | 0.17 | 0.021 |
| CHA 128989 | Soil   |         |      |     | 0.8   | 61.2  | 7.3   | 41    | <0.1  | 9.9   | 16.8  | 312   | 3.15  | 3.4   | 0.2   | 5.4   | 0.7   | 8     | <0.1  | 0.2   | <0.1  | 107   | 0.22 | 0.028 |
| CHA 128673 | Soil   |         |      |     | 0.8   | 32.4  | 12.8  | 77    | <0.1  | 19.9  | 10.5  | 365   | 3.52  | 7.0   | 0.7   | 0.8   | 9.6   | 11    | <0.1  | 0.5   | 0.3   | 67    | 0.09 | 0.020 |
| CHA 128992 | Soil   |         |      |     | 0.9   | 24.9  | 8.2   | 31    | 0.1   | 11.7  | 6.5   | 549   | 2.67  | 4.8   | 0.2   | 4.2   | 0.6   | 42    | 0.2   | 0.4   | 0.1   | 81    | 0.74 | 0.045 |
| CHA 128994 | Soil   |         |      |     | 0.9   | 41.0  | 6.9   | 54    | <0.1  | 13.9  | 14.4  | 367   | 4.25  | 4.8   | 0.3   | 0.6   | 1.2   | 12    | 0.1   | 0.4   | 0.1   | 153   | 0.18 | 0.030 |
| CHA 128993 | Soil   |         |      |     | 1.0   | 22.8  | 9.3   | 43    | 0.1   | 12.4  | 10.8  | 1086  | 3.09  | 5.5   | 0.3   | 0.5   | 1.0   | 23    | 1.1   | 0.5   | 0.2   | 116   | 0.32 | 0.038 |
| CHA 111890 | Soil   |         |      |     | 0.9   | 38.7  | 6.2   | 53    | 0.1   | 13.6  | 12.1  | 368   | 3.45  | 7.2   | 0.4   | 1.3   | 1.8   | 14    | <0.1  | 0.4   | 0.1   | 107   | 0.23 | 0.029 |
| CHA 111886 | Soil   |         |      |     | 0.8   | 21.5  | 7.1   | 66    | 0.1   | 16.0  | 10.7  | 582   | 3.24  | 6.7   | 0.7   | 1.6   | 2.6   | 15    | 0.1   | 0.3   | 0.1   | 70    | 0.22 | 0.051 |
| CHA 112336 | Soil   |         |      |     | 0.7   | 71.2  | 6.1   | 57    | <0.1  | 21.1  | 17.6  | 674   | 3.67  | 5.2   | 0.5   | 2.1   | 2.0   | 18    | <0.1  | 0.4   | <0.1  | 101   | 0.28 | 0.031 |
| CHA 111888 | Soil   |         |      |     | 0.7   | 33.5  | 6.0   | 69    | 0.1   | 9.8   | 10.3  | 368   | 3.87  | 5.5   | 0.5   | 0.6   | 2.0   | 9     | <0.1  | 0.4   | <0.1  | 96    | 0.15 | 0.038 |
| CHA 111894 | Soil   |         |      |     | 0.8   | 36.1  | 6.9   | 60    | <0.1  | 18.7  | 12.1  | 275   | 2.92  | 6.0   | 0.6   | 1.8   | 2.2   | 21    | 0.1   | 0.4   | 0.1   | 82    | 0.37 | 0.030 |
| CHA 111877 | Soil   |         |      |     | 0.9   | 34.3  | 12.2  | 59    | 0.2   | 21.2  | 11.1  | 302   | 3.34  | 8.2   | 0.4   | 0.9   | 2.2   | 15    | 0.1   | 0.6   | 0.2   | 85    | 0.18 | 0.020 |



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Project: CHA  
Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 85782  | Soil                             | 11    | 24    | 0.52  | 308   | 0.044 | 2     | 1.25  | 0.020 | 0.06  | 0.2   | 0.04  | 3.4   | <0.1  | 0.07  | 4     | 0.7   | <0.2  |
| CHA 85760  | Soil                             | 11    | 27    | 0.47  | 214   | 0.042 | 1     | 1.53  | 0.009 | 0.05  | 0.2   | 0.03  | 2.6   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128999 | Soil                             | 3     | 8     | 0.23  | 87    | 0.054 | <1    | 0.58  | 0.016 | 0.06  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| CHA 128981 | Soil                             | 3     | 10    | 0.21  | 73    | 0.035 | <1    | 0.64  | 0.018 | 0.03  | <0.1  | 0.03  | 0.6   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| CHA 85767  | Soil                             | 13    | 27    | 0.61  | 192   | 0.078 | <1    | 1.79  | 0.008 | 0.15  | <0.1  | <0.01 | 3.2   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85755  | Soil                             | 10    | 25    | 0.59  | 250   | 0.047 | 1     | 1.44  | 0.017 | 0.07  | 0.2   | 0.06  | 2.9   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| CHA 85765  | Soil                             | 18    | 25    | 0.45  | 337   | 0.024 | 1     | 1.65  | 0.010 | 0.07  | 0.1   | 0.04  | 2.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128997 | Soil                             | 9     | 30    | 0.57  | 238   | 0.054 | <1    | 2.19  | 0.010 | 0.04  | 0.1   | 0.02  | 4.0   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85778  | Soil                             | 20    | 44    | 0.98  | 289   | 0.074 | 1     | 2.15  | 0.013 | 0.11  | <0.1  | 0.02  | 7.0   | 0.1   | <0.05 | 6     | 0.7   | <0.2  |
| CHA 128998 | Soil                             | 8     | 26    | 0.58  | 230   | 0.090 | 1     | 2.02  | 0.010 | 0.15  | 0.1   | 0.02  | 4.0   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128985 | Soil                             | 8     | 33    | 0.89  | 125   | 0.124 | 1     | 2.40  | 0.015 | 0.05  | <0.1  | 0.02  | 3.6   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128984 | Soil                             | 12    | 32    | 0.88  | 217   | 0.080 | <1    | 2.25  | 0.020 | 0.07  | <0.1  | 0.02  | 4.3   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128675 | Soil                             | 8     | 56    | 1.69  | 430   | 0.143 | <1    | 2.84  | 0.014 | 0.38  | <0.1  | 0.01  | 7.6   | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 128676 | Soil                             | 9     | 31    | 0.92  | 299   | 0.072 | <1    | 2.46  | 0.010 | 0.33  | 0.1   | 0.02  | 6.7   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128674 | Soil                             | 17    | 73    | 2.14  | 764   | 0.182 | <1    | 2.76  | 0.018 | 0.64  | <0.1  | <0.01 | 12.6  | 0.3   | <0.05 | 11    | <0.5  | <0.2  |
| CHA 128670 | Soil                             | 52    | 29    | 0.79  | 126   | 0.062 | <1    | 2.08  | 0.007 | 0.34  | <0.1  | <0.01 | 2.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128677 | Soil                             | 8     | 28    | 1.09  | 430   | 0.154 | <1    | 1.96  | 0.015 | 0.45  | <0.1  | 0.01  | 4.6   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128672 | Soil                             | 47    | 51    | 1.01  | 243   | 0.177 | <1    | 2.70  | 0.012 | 0.70  | <0.1  | 0.01  | 6.2   | 0.3   | <0.05 | 11    | <0.5  | <0.2  |
| CHA 128678 | Soil                             | 8     | 41    | 0.84  | 358   | 0.101 | <1    | 2.44  | 0.013 | 0.26  | <0.1  | 0.01  | 5.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128989 | Soil                             | 3     | 15    | 0.96  | 134   | 0.182 | <1    | 1.53  | 0.029 | 0.37  | <0.1  | 0.02  | 3.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| CHA 128673 | Soil                             | 28    | 34    | 0.76  | 180   | 0.114 | <1    | 2.65  | 0.009 | 0.22  | <0.1  | 0.02  | 4.4   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 128992 | Soil                             | 5     | 16    | 0.47  | 279   | 0.035 | <1    | 1.50  | 0.016 | 0.08  | <0.1  | 0.05  | 3.6   | 0.1   | <0.05 | 6     | 0.5   | <0.2  |
| CHA 128994 | Soil                             | 6     | 27    | 1.06  | 157   | 0.127 | <1    | 2.11  | 0.016 | 0.08  | <0.1  | 0.03  | 7.4   | <0.1  | <0.05 | 9     | <0.5  | <0.2  |
| CHA 128993 | Soil                             | 7     | 20    | 0.42  | 376   | 0.089 | <1    | 1.36  | 0.011 | 0.07  | <0.1  | 0.04  | 3.9   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 111890 | Soil                             | 8     | 22    | 0.79  | 283   | 0.148 | <1    | 1.90  | 0.015 | 0.18  | 0.1   | 0.02  | 5.4   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111886 | Soil                             | 14    | 27    | 0.75  | 236   | 0.095 | <1    | 1.98  | 0.012 | 0.21  | 0.1   | 0.02  | 7.0   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 112336 | Soil                             | 9     | 28    | 1.06  | 406   | 0.122 | <1    | 2.18  | 0.020 | 0.15  | 0.1   | 0.02  | 8.0   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111888 | Soil                             | 9     | 17    | 0.90  | 248   | 0.173 | <1    | 1.80  | 0.013 | 0.25  | 0.1   | 0.01  | 7.6   | 0.1   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111894 | Soil                             | 9     | 26    | 0.79  | 267   | 0.094 | 1     | 1.91  | 0.019 | 0.06  | 0.1   | 0.03  | 5.0   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111877 | Soil                             | 8     | 26    | 0.63  | 283   | 0.060 | 2     | 2.44  | 0.011 | 0.10  | <0.1  | 0.02  | 5.7   | 0.1   | <0.05 | 6     | 0.5   | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| CHA 112335 | Soil   |         |      |     | 0.8   | 31.1  | 7.4   | 54    | <0.1  | 18.9  | 12.6  | 454   | 3.07  | 7.6   | 0.5   | 2.7   | 2.5   | 19    | <0.1  | 0.5   | 0.1   | 85    | 0.26 | 0.066 |
| CHA 112340 | Soil   |         |      |     | 0.4   | 77.3  | 3.5   | 75    | <0.1  | 9.8   | 25.8  | 1282  | 6.21  | 1.2   | 0.5   | <0.5  | 1.5   | 12    | 0.1   | 0.2   | <0.1  | 170   | 0.27 | 0.056 |
| CHA 111884 | Soil   |         |      |     | 0.7   | 36.7  | 6.7   | 65    | <0.1  | 17.6  | 13.9  | 574   | 4.16  | 8.7   | 0.8   | 1.8   | 3.1   | 13    | 0.2   | 0.4   | 0.1   | 130   | 0.23 | 0.038 |
| CHA 111896 | Soil   |         |      |     | 0.7   | 35.0  | 7.3   | 70    | 0.1   | 20.3  | 11.9  | 300   | 3.00  | 6.9   | 0.8   | 1.7   | 3.2   | 26    | 0.1   | 0.6   | 0.1   | 75    | 0.41 | 0.053 |
| CHA 111878 | Soil   |         |      |     | 1.1   | 41.6  | 7.3   | 56    | <0.1  | 20.6  | 13.4  | 389   | 3.69  | 7.6   | 0.3   | 3.7   | 1.9   | 16    | 0.1   | 0.6   | 0.1   | 106   | 0.25 | 0.031 |
| CHA 111887 | Soil   |         |      |     | 1.0   | 21.4  | 7.4   | 38    | <0.1  | 11.7  | 6.6   | 156   | 2.69  | 8.7   | 0.4   | 1.9   | 3.0   | 9     | <0.1  | 0.4   | 0.2   | 103   | 0.09 | 0.027 |
| CHA 85785  | Soil   |         |      |     | 0.8   | 28.1  | 11.8  | 76    | <0.1  | 31.0  | 13.8  | 481   | 3.44  | 13.2  | 1.5   | 1.2   | 10.9  | 20    | 0.1   | 0.7   | 0.1   | 58    | 0.16 | 0.030 |
| CHA 85787  | Soil   |         |      |     | 0.3   | 11.0  | 74.8  | 257   | <0.1  | 19.3  | 21.4  | 858   | 5.03  | 3.8   | 0.5   | <0.5  | 1.6   | 33    | 1.4   | 0.9   | <0.1  | 145   | 0.48 | 0.071 |
| CHA 128661 | Soil   |         |      |     | 1.1   | 32.9  | 8.9   | 65    | <0.1  | 23.4  | 15.8  | 605   | 3.78  | 8.5   | 0.5   | 2.8   | 2.8   | 20    | <0.1  | 0.6   | 0.1   | 82    | 0.35 | 0.031 |
| CHA 128637 | Soil   |         |      |     | 0.6   | 42.6  | 14.6  | 181   | <0.1  | 19.3  | 22.2  | 789   | 4.54  | 5.8   | 0.4   | 0.6   | 2.0   | 8     | 0.4   | 0.6   | 0.2   | 112   | 0.13 | 0.028 |
| CHA 85786  | Soil   |         |      |     | 1.3   | 66.5  | 14.2  | 93    | 0.1   | 24.3  | 16.6  | 457   | 5.37  | 7.5   | 1.4   | 2.3   | 8.6   | 17    | 0.1   | 0.6   | 0.7   | 142   | 0.10 | 0.033 |
| CHA 128663 | Soil   |         |      |     | 0.5   | 21.4  | 3.9   | 96    | <0.1  | 9.2   | 16.1  | 505   | 4.46  | 6.9   | 0.8   | 2.4   | 3.9   | 20    | <0.1  | 0.3   | <0.1  | 115   | 0.35 | 0.075 |
| CHA 128660 | Soil   |         |      |     | 1.5   | 25.8  | 8.6   | 59    | 0.1   | 23.1  | 11.1  | 386   | 3.67  | 8.8   | 1.1   | 2.6   | 4.1   | 25    | 0.1   | 0.5   | 0.2   | 80    | 0.28 | 0.030 |
| CHA 128638 | Soil   |         |      |     | 0.7   | 36.8  | 11.4  | 69    | <0.1  | 26.2  | 12.1  | 377   | 2.94  | 8.2   | 1.0   | 3.3   | 4.0   | 23    | <0.1  | 0.6   | 0.2   | 67    | 0.26 | 0.062 |
| CHA 128639 | Soil   |         |      |     | 0.8   | 28.2  | 10.9  | 70    | <0.1  | 24.4  | 9.5   | 351   | 2.74  | 5.9   | 1.0   | 4.0   | 4.8   | 19    | 0.1   | 0.6   | 0.1   | 55    | 0.26 | 0.067 |
| CHA 128650 | Soil   |         |      |     | 1.2   | 29.2  | 11.3  | 54    | <0.1  | 23.7  | 12.2  | 418   | 3.56  | 6.9   | 1.0   | 7.7   | 6.6   | 12    | 0.1   | 0.5   | 0.3   | 56    | 0.10 | 0.045 |
| CHA 128634 | Soil   |         |      |     | 0.8   | 28.6  | 13.2  | 88    | 0.1   | 24.9  | 13.0  | 495   | 3.32  | 7.5   | 0.9   | 1.0   | 7.2   | 21    | <0.1  | 0.6   | 0.2   | 67    | 0.30 | 0.044 |
| CHA 128632 | Soil   |         |      |     | 0.9   | 38.9  | 18.2  | 86    | 0.2   | 22.3  | 11.9  | 338   | 2.84  | 6.8   | 1.3   | 3.9   | 5.7   | 26    | 0.3   | 0.7   | 0.2   | 62    | 0.31 | 0.050 |
| CHA 128625 | Soil   |         |      |     | 1.0   | 24.3  | 8.7   | 49    | <0.1  | 19.2  | 11.7  | 316   | 3.47  | 7.0   | 0.6   | 1.6   | 1.7   | 15    | 0.1   | 0.5   | 0.3   | 76    | 0.12 | 0.049 |
| CHA 128633 | Soil   |         |      |     | 1.1   | 31.6  | 18.2  | 121   | 0.2   | 20.5  | 13.6  | 590   | 3.54  | 8.7   | 0.8   | 4.3   | 4.6   | 30    | 0.4   | 0.9   | 0.4   | 62    | 0.39 | 0.091 |
| CHA 128630 | Soil   |         |      |     | 1.2   | 28.6  | 30.4  | 83    | 0.3   | 17.2  | 10.9  | 425   | 3.20  | 11.4  | 1.0   | 8.4   | 4.1   | 27    | 0.2   | 1.3   | 0.8   | 62    | 0.23 | 0.043 |
| CHA 128641 | Soil   |         |      |     | 1.4   | 30.5  | 15.1  | 70    | <0.1  | 23.8  | 13.7  | 526   | 3.28  | 13.3  | 0.8   | 4.1   | 5.8   | 14    | 0.3   | 1.7   | 0.2   | 57    | 0.13 | 0.030 |
| CHA 128629 | Soil   |         |      |     | 1.6   | 12.6  | 17.8  | 72    | <0.1  | 13.8  | 10.1  | 346   | 3.18  | 7.9   | 0.5   | 2.5   | 3.7   | 24    | 0.3   | 0.8   | 0.4   | 56    | 0.12 | 0.033 |
| CHA 128628 | Soil   |         |      |     | 1.2   | 26.8  | 16.3  | 65    | 0.2   | 20.3  | 13.7  | 254   | 2.43  | 9.6   | 1.6   | 7.8   | 4.0   | 16    | 0.6   | 0.9   | 0.3   | 46    | 0.16 | 0.057 |
| CHA 128626 | Soil   |         |      |     | 2.0   | 10.9  | 41.6  | 59    | <0.1  | 9.3   | 8.1   | 261   | 2.51  | 5.7   | 1.9   | 1.0   | 10.2  | 32    | 0.1   | 0.5   | 0.5   | 16    | 0.07 | 0.039 |
| CHA 128624 | Soil   |         |      |     | 1.4   | 25.6  | 52.3  | 130   | 0.1   | 24.8  | 6.5   | 466   | 2.33  | 8.4   | 0.8   | 6.5   | 0.7   | 14    | 0.6   | 2.1   | 0.3   | 43    | 0.13 | 0.070 |
| CHA 128623 | Soil   |         |      |     | 1.6   | 17.0  | 14.9  | 58    | <0.1  | 18.9  | 8.7   | 542   | 2.79  | 9.3   | 0.8   | 1.4   | 0.5   | 22    | 0.4   | 0.6   | 0.2   | 61    | 0.16 | 0.086 |
| CHA 128627 | Soil   |         |      |     | 1.4   | 18.0  | 11.5  | 57    | <0.1  | 22.4  | 9.0   | 319   | 2.92  | 11.1  | 0.6   | 4.7   | 3.4   | 12    | 0.2   | 0.8   | 0.2   | 61    | 0.09 | 0.026 |
| CHA 128622 | Soil   |         |      |     | 0.7   | 74.8  | 50.4  | 93    | 0.3   | 12.7  | 15.4  | 912   | 4.46  | 13.3  | 0.5   | 8.1   | 2.4   | 53    | 0.7   | 0.9   | 0.5   | 101   | 0.67 | 0.118 |
| CHA 128631 | Soil   |         |      |     | 1.1   | 19.3  | 20.9  | 77    | 0.2   | 17.8  | 11.9  | 427   | 2.94  | 7.1   | 0.7   | 3.2   | 4.1   | 16    | 0.2   | 0.7   | 0.3   | 64    | 0.18 | 0.043 |



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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000264.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| CHA 112335 | Soil                             | 12    | 27    | 0.69  | 210   | 0.113 | 2     | 1.84  | 0.015 | 0.11  | 0.2   | 0.03  | 3.9   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| CHA 112340 | Soil                             | 9     | 20    | 1.79  | 950   | 0.175 | <1    | 2.99  | 0.009 | 0.89  | <0.1  | <0.01 | 18.0  | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 111884 | Soil                             | 15    | 38    | 1.10  | 410   | 0.161 | 1     | 2.30  | 0.010 | 0.58  | 0.1   | 0.02  | 11.8  | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 111896 | Soil                             | 13    | 27    | 0.78  | 388   | 0.113 | 1     | 1.90  | 0.020 | 0.09  | 0.2   | 0.05  | 6.5   | 0.1   | <0.05 | 6     | 0.5   | <0.2  |
| CHA 111878 | Soil                             | 8     | 27    | 0.69  | 213   | 0.067 | 2     | 2.15  | 0.013 | 0.08  | 0.2   | 0.01  | 5.9   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 111887 | Soil                             | 9     | 33    | 0.54  | 106   | 0.119 | <1    | 1.52  | 0.009 | 0.10  | 0.1   | 0.02  | 3.5   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85785  | Soil                             | 34    | 58    | 0.89  | 210   | 0.104 | 1     | 2.06  | 0.010 | 0.19  | 0.1   | 0.02  | 4.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85787  | Soil                             | 5     | 66    | 1.70  | 1089  | 0.135 | <1    | 2.65  | 0.019 | 0.52  | <0.1  | 0.01  | 13.9  | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| CHA 128661 | Soil                             | 12    | 83    | 0.86  | 279   | 0.053 | <1    | 2.15  | 0.014 | 0.08  | <0.1  | 0.04  | 9.6   | <0.1  | <0.05 | 6     | 0.6   | <0.2  |
| CHA 128637 | Soil                             | 7     | 32    | 1.51  | 223   | 0.133 | <1    | 2.67  | 0.013 | 0.37  | 0.1   | 0.02  | 5.7   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| CHA 85786  | Soil                             | 22    | 72    | 1.62  | 380   | 0.179 | <1    | 3.58  | 0.017 | 0.74  | <0.1  | 0.03  | 11.6  | 0.6   | <0.05 | 10    | 1.2   | <0.2  |
| CHA 128663 | Soil                             | 15    | 12    | 1.38  | 519   | 0.145 | <1    | 2.41  | 0.013 | 0.50  | <0.1  | 0.01  | 11.9  | 0.2   | <0.05 | 9     | <0.5  | <0.2  |
| CHA 128660 | Soil                             | 14    | 56    | 0.95  | 273   | 0.120 | 1     | 2.11  | 0.016 | 0.18  | 0.2   | 0.02  | 7.3   | 0.1   | 0.06  | 7     | <0.5  | <0.2  |
| CHA 128638 | Soil                             | 16    | 32    | 0.76  | 349   | 0.080 | <1    | 1.96  | 0.011 | 0.10  | <0.1  | 0.07  | 4.6   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128639 | Soil                             | 19    | 30    | 0.87  | 273   | 0.094 | <1    | 1.85  | 0.011 | 0.13  | 0.2   | 0.03  | 3.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128650 | Soil                             | 29    | 36    | 0.68  | 174   | 0.067 | <1    | 2.24  | 0.007 | 0.26  | 0.1   | 0.01  | 3.4   | 0.3   | <0.05 | 7     | 0.6   | <0.2  |
| CHA 128634 | Soil                             | 25    | 47    | 1.27  | 342   | 0.178 | <1    | 2.08  | 0.015 | 0.52  | 0.1   | 0.03  | 5.3   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128632 | Soil                             | 17    | 37    | 0.90  | 467   | 0.121 | <1    | 1.84  | 0.016 | 0.17  | 0.2   | 0.06  | 5.3   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| CHA 128625 | Soil                             | 9     | 41    | 0.76  | 163   | 0.123 | <1    | 1.91  | 0.011 | 0.20  | <0.1  | 0.04  | 3.0   | 0.2   | 0.05  | 7     | <0.5  | <0.2  |
| CHA 128633 | Soil                             | 18    | 30    | 1.01  | 684   | 0.086 | <1    | 2.01  | 0.014 | 0.22  | 0.1   | 0.05  | 6.1   | 0.2   | <0.05 | 7     | 0.6   | 0.3   |
| CHA 128630 | Soil                             | 16    | 31    | 0.82  | 406   | 0.080 | <1    | 1.83  | 0.013 | 0.12  | 0.1   | 0.04  | 4.7   | <0.1  | <0.05 | 6     | 0.7   | 0.3   |
| CHA 128641 | Soil                             | 16    | 35    | 0.92  | 214   | 0.096 | <1    | 2.42  | 0.009 | 0.17  | 0.1   | 0.03  | 3.8   | 0.1   | <0.05 | 7     | 0.7   | <0.2  |
| CHA 128629 | Soil                             | 11    | 21    | 0.55  | 160   | 0.062 | <1    | 1.60  | 0.015 | 0.08  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 5     | 0.6   | 0.3   |
| CHA 128628 | Soil                             | 16    | 27    | 0.49  | 409   | 0.030 | <1    | 1.53  | 0.010 | 0.08  | 0.1   | 0.03  | 4.0   | <0.1  | <0.05 | 5     | 0.7   | <0.2  |
| CHA 128626 | Soil                             | 23    | 12    | 0.44  | 211   | 0.010 | <1    | 1.68  | 0.011 | 0.17  | <0.1  | 0.03  | 1.8   | 0.1   | <0.05 | 3     | 0.6   | <0.2  |
| CHA 128624 | Soil                             | 12    | 22    | 0.25  | 160   | 0.016 | <1    | 1.28  | 0.007 | 0.08  | 0.2   | 0.06  | 1.0   | 0.1   | <0.05 | 4     | <0.5  | 0.3   |
| CHA 128623 | Soil                             | 13    | 30    | 0.39  | 385   | 0.037 | 1     | 1.60  | 0.009 | 0.05  | 0.2   | 0.07  | 1.1   | <0.1  | <0.05 | 7     | 0.6   | <0.2  |
| CHA 128627 | Soil                             | 11    | 30    | 0.49  | 130   | 0.057 | <1    | 1.89  | 0.010 | 0.08  | 0.3   | 0.04  | 2.8   | 0.1   | <0.05 | 6     | 0.5   | <0.2  |
| CHA 128622 | Soil                             | 15    | 21    | 1.60  | 141   | 0.045 | <1    | 2.81  | 0.012 | 0.05  | 0.1   | 0.04  | 4.8   | <0.1  | <0.05 | 9     | <0.5  | 0.6   |
| CHA 128631 | Soil                             | 13    | 37    | 0.91  | 248   | 0.087 | <1    | 1.86  | 0.010 | 0.13  | 0.1   | 0.05  | 3.3   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## QUALITY CONTROL REPORT

WHI10000264.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|                 |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
| Pulp Duplicates |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| CHA 128665      | Soil                             | 0.3   | 23.5  | 2.5   | 54    | <0.1  | 2.7   | 14.8  | 513   | 4.87  | 1.3   | 0.8   | 0.8   | 2.1   | 15    | <0.1  | 0.2   | <0.1  | 70    | 0.58  |
| REP CHA 128665  | QC                               | 0.3   | 24.7  | 2.6   | 55    | <0.1  | 2.7   | 15.3  | 533   | 5.17  | 1.4   | 0.8   | <0.5  | 2.2   | 16    | <0.1  | 0.2   | <0.1  | 72    | 0.63  |
| CHA 128657      | Soil                             | 1.5   | 32.1  | 12.4  | 62    | <0.1  | 32.9  | 13.5  | 292   | 3.96  | 7.9   | 1.3   | 1.4   | 17.2  | 9     | 0.1   | 0.5   | 0.3   | 41    | 0.06  |
| REP CHA 128657  | QC                               | 1.7   | 31.7  | 12.9  | 64    | <0.1  | 33.8  | 13.3  | 288   | 3.92  | 7.9   | 1.4   | 0.6   | 17.9  | 9     | 0.1   | 0.5   | 0.3   | 42    | 0.06  |
| CHA 85672       | Soil                             | 0.7   | 36.7  | 7.8   | 68    | 0.1   | 14.5  | 12.8  | 447   | 3.20  | 5.6   | 0.7   | 2.8   | 2.3   | 24    | <0.1  | 0.6   | 0.2   | 80    | 0.45  |
| REP CHA 85672   | QC                               | 0.7   | 34.4  | 7.9   | 65    | 0.1   | 14.0  | 12.6  | 439   | 3.17  | 5.6   | 0.7   | 2.9   | 2.3   | 24    | 0.2   | 0.6   | 0.2   | 78    | 0.43  |
| CHA 85670       | Soil                             | 1.0   | 55.7  | 10.0  | 84    | <0.1  | 14.5  | 32.1  | 1912  | 5.82  | 4.6   | 0.4   | 0.9   | 1.5   | 15    | 0.2   | 1.1   | 0.1   | 168   | 0.34  |
| REP CHA 85670   | QC                               | 0.9   | 57.1  | 9.7   | 83    | <0.1  | 14.7  | 32.7  | 1906  | 5.87  | 4.6   | 0.4   | <0.5  | 1.4   | 15    | 0.2   | 1.0   | 0.1   | 168   | 0.35  |
| CHA 85761       | Soil                             | 0.6   | 29.1  | 8.9   | 56    | 0.1   | 18.2  | 7.6   | 284   | 2.47  | 6.0   | 0.7   | 3.2   | 3.4   | 18    | 0.1   | 0.5   | 0.3   | 45    | 0.29  |
| REP CHA 85761   | QC                               | 0.5   | 29.1  | 9.0   | 58    | 0.1   | 18.3  | 7.9   | 292   | 2.52  | 6.0   | 0.7   | 0.6   | 3.6   | 19    | 0.1   | 0.5   | 0.3   | 46    | 0.28  |
| CHA 111898      | Soil                             | 0.9   | 29.0  | 7.6   | 71    | 0.1   | 16.1  | 9.7   | 234   | 2.92  | 6.8   | 0.9   | 1.1   | 2.7   | 20    | 0.2   | 0.4   | 0.1   | 65    | 0.28  |
| REP CHA 111898  | QC                               | 0.9   | 29.2  | 7.7   | 72    | 0.1   | 16.8  | 9.6   | 232   | 2.96  | 6.4   | 0.9   | 2.3   | 2.8   | 20    | 0.2   | 0.4   | 0.1   | 65    | 0.28  |
| CHA 128686      | Soil                             | 0.8   | 25.5  | 8.8   | 58    | 0.1   | 23.5  | 8.3   | 304   | 2.36  | 8.0   | 0.8   | 4.6   | 3.0   | 33    | 0.2   | 0.6   | 0.2   | 48    | 0.49  |
| REP CHA 128686  | QC                               | 0.8   | 25.7  | 8.8   | 60    | 0.1   | 24.0  | 8.6   | 309   | 2.34  | 8.2   | 0.8   | 2.1   | 3.0   | 33    | 0.2   | 0.6   | 0.1   | 50    | 0.52  |
| CHA 128991      | Soil                             | 0.9   | 33.5  | 12.9  | 58    | 0.1   | 9.5   | 12.8  | 493   | 4.85  | 4.9   | 0.4   | 5.7   | 1.1   | 13    | 0.2   | 0.3   | 0.2   | 179   | 0.17  |
| REP CHA 128991  | QC                               | 0.9   | 34.1  | 13.6  | 60    | 0.1   | 9.6   | 13.4  | 514   | 4.98  | 5.0   | 0.4   | 3.5   | 1.2   | 14    | 0.2   | 0.3   | 0.2   | 184   | 0.19  |
| CHA 111939      | Soil                             | 1.2   | 22.2  | 10.1  | 56    | 0.1   | 13.1  | 8.9   | 264   | 2.93  | 7.2   | 0.5   | 1.0   | 1.8   | 12    | 0.2   | 0.5   | 0.2   | 72    | 0.13  |
| REP CHA 111939  | QC                               | 1.1   | 21.9  | 10.5  | 59    | 0.1   | 12.8  | 9.0   | 260   | 2.97  | 7.3   | 0.5   | 0.9   | 1.9   | 11    | 0.2   | 0.5   | 0.2   | 75    | 0.14  |
| CHA 128970      | Soil                             | 0.9   | 19.8  | 10.9  | 48    | <0.1  | 16.5  | 10.3  | 278   | 3.21  | 7.4   | 0.6   | 2.8   | 2.1   | 39    | 0.1   | 0.4   | 0.4   | 86    | 0.30  |
| REP CHA 128970  | QC                               | 1.1   | 20.0  | 11.0  | 50    | <0.1  | 15.0  | 10.4  | 274   | 3.18  | 7.6   | 0.5   | 0.7   | 2.0   | 37    | <0.1  | 0.3   | 0.4   | 85    | 0.32  |
| CHA 128984      | Soil                             | 0.8   | 26.3  | 8.3   | 49    | 0.1   | 20.0  | 8.5   | 281   | 2.80  | 4.9   | 0.6   | 4.3   | 1.5   | 54    | 0.1   | 0.4   | 0.2   | 75    | 0.44  |
| REP CHA 128984  | QC                               | 0.9   | 26.8  | 8.0   | 52    | <0.1  | 21.8  | 9.1   | 283   | 2.96  | 5.1   | 0.6   | 3.4   | 1.6   | 57    | <0.1  | 0.4   | 0.2   | 81    | 0.46  |
| CHA 128993      | Soil                             | 1.0   | 22.8  | 9.3   | 43    | 0.1   | 12.4  | 10.8  | 1086  | 3.09  | 5.5   | 0.3   | 0.5   | 1.0   | 23    | 1.1   | 0.5   | 0.2   | 116   | 0.32  |
| REP CHA 128993  | QC                               | 1.1   | 21.8  | 8.6   | 41    | 0.1   | 11.7  | 10.6  | 1032  | 2.95  | 5.1   | 0.3   | 1.7   | 0.9   | 23    | 1.0   | 0.5   | 0.2   | 106   | 0.31  |
| CHA 85787       | Soil                             | 0.3   | 11.0  | 74.8  | 257   | <0.1  | 19.3  | 21.4  | 858   | 5.03  | 3.8   | 0.5   | <0.5  | 1.6   | 33    | 1.4   | 0.9   | <0.1  | 145   | 0.48  |
| REP CHA 85787   | QC                               | 0.4   | 11.9  | 74.8  | 262   | <0.1  | 19.6  | 22.1  | 849   | 5.12  | 3.9   | 0.5   | 0.9   | 1.7   | 33    | 1.4   | 1.0   | <0.1  | 143   | 0.49  |
| CHA 128630      | Soil                             | 1.2   | 28.6  | 30.4  | 83    | 0.3   | 17.2  | 10.9  | 425   | 3.20  | 11.4  | 1.0   | 8.4   | 4.1   | 27    | 0.2   | 1.3   | 0.8   | 62    | 0.23  |
| REP CHA 128630  | QC                               | 1.2   | 30.1  | 30.1  | 80    | 0.3   | 17.3  | 10.9  | 422   | 3.11  | 11.4  | 1.1   | 3.9   | 4.5   | 27    | 0.2   | 1.3   | 0.8   | 60    | 0.24  |



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Report Date: September 02, 2010

Page: 1 of 2 Part 2

## QUALITY CONTROL REPORT

WHI10000264.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|                 |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|                 |                                  | 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 |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| CHA 128665      | Soil                             | 8     | 3     | 1.30  | 402   | 0.181 | <1    | 2.50  | 0.009 | 0.28  | <0.1  | <0.01 | 13.8  | <0.1  | <0.05 | 10    | <0.5  | <0.2  |
| REP CHA 128665  | QC                               | 8     | 3     | 1.34  | 402   | 0.194 | <1    | 2.52  | 0.010 | 0.30  | <0.1  | <0.01 | 14.6  | <0.1  | <0.05 | 10    | <0.5  | <0.2  |
| CHA 128657      | Soil                             | 54    | 52    | 0.81  | 154   | 0.085 | <1    | 2.66  | 0.006 | 0.34  | <0.1  | 0.01  | 3.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| REP CHA 128657  | QC                               | 54    | 51    | 0.78  | 161   | 0.087 | <1    | 2.65  | 0.006 | 0.34  | <0.1  | 0.01  | 3.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| CHA 85672       | Soil                             | 9     | 25    | 0.90  | 247   | 0.091 | 2     | 1.89  | 0.014 | 0.13  | 0.2   | 0.03  | 5.9   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| REP CHA 85672   | QC                               | 9     | 23    | 0.87  | 247   | 0.088 | 2     | 1.87  | 0.014 | 0.12  | 0.2   | 0.02  | 5.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 85670       | Soil                             | 6     | 28    | 1.66  | 239   | 0.113 | 1     | 2.81  | 0.010 | 0.37  | 0.1   | 0.01  | 13.0  | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| REP CHA 85670   | QC                               | 5     | 28    | 1.60  | 244   | 0.113 | <1    | 2.65  | 0.010 | 0.35  | 0.1   | 0.01  | 12.6  | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| CHA 85761       | Soil                             | 21    | 32    | 0.69  | 330   | 0.049 | 1     | 1.81  | 0.008 | 0.19  | 0.1   | 0.03  | 2.9   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| REP CHA 85761   | QC                               | 22    | 33    | 0.70  | 337   | 0.049 | <1    | 1.87  | 0.009 | 0.20  | 0.1   | 0.03  | 2.9   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| CHA 111898      | Soil                             | 13    | 33    | 0.73  | 316   | 0.095 | 1     | 1.91  | 0.016 | 0.07  | 0.2   | 0.04  | 4.2   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| REP CHA 111898  | QC                               | 13    | 32    | 0.74  | 317   | 0.094 | 1     | 1.91  | 0.015 | 0.08  | 0.2   | 0.03  | 4.3   | 0.1   | <0.05 | 6     | <0.5  | 0.2   |
| CHA 128686      | Soil                             | 13    | 27    | 0.49  | 301   | 0.059 | <1    | 1.42  | 0.019 | 0.06  | 0.2   | 0.03  | 3.5   | <0.1  | <0.05 | 5     | 0.5   | <0.2  |
| REP CHA 128686  | QC                               | 13    | 28    | 0.48  | 302   | 0.060 | 2     | 1.43  | 0.020 | 0.06  | 0.2   | 0.05  | 3.5   | <0.1  | <0.05 | 5     | <0.5  | 0.3   |
| CHA 128991      | Soil                             | 6     | 19    | 1.49  | 375   | 0.208 | <1    | 2.66  | 0.011 | 0.58  | <0.1  | 0.02  | 5.9   | 0.4   | <0.05 | 10    | 0.8   | <0.2  |
| REP CHA 128991  | QC                               | 7     | 20    | 1.49  | 389   | 0.215 | 1     | 2.71  | 0.012 | 0.59  | <0.1  | 0.03  | 6.5   | 0.4   | <0.05 | 11    | <0.5  | 0.3   |
| CHA 111939      | Soil                             | 9     | 46    | 0.63  | 230   | 0.095 | <1    | 1.71  | 0.009 | 0.08  | 0.1   | 0.01  | 3.6   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| REP CHA 111939  | QC                               | 9     | 45    | 0.66  | 234   | 0.092 | <1    | 1.81  | 0.009 | 0.08  | 0.1   | 0.02  | 3.4   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| CHA 128970      | Soil                             | 11    | 33    | 0.65  | 168   | 0.095 | 1     | 2.28  | 0.019 | 0.08  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| REP CHA 128970  | QC                               | 11    | 34    | 0.65  | 164   | 0.094 | 2     | 2.22  | 0.019 | 0.07  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 7     | <0.5  | 0.2   |
| CHA 128984      | Soil                             | 12    | 32    | 0.88  | 217   | 0.080 | <1    | 2.25  | 0.020 | 0.07  | <0.1  | 0.02  | 4.3   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| REP CHA 128984  | QC                               | 13    | 33    | 0.91  | 223   | 0.086 | <1    | 2.32  | 0.021 | 0.07  | <0.1  | 0.02  | 4.3   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| CHA 128993      | Soil                             | 7     | 20    | 0.42  | 376   | 0.089 | <1    | 1.36  | 0.011 | 0.07  | <0.1  | 0.04  | 3.9   | 0.1   | <0.05 | 8     | <0.5  | <0.2  |
| REP CHA 128993  | QC                               | 7     | 18    | 0.41  | 363   | 0.085 | <1    | 1.30  | 0.011 | 0.06  | 0.1   | 0.04  | 3.8   | 0.1   | 0.05  | 8     | <0.5  | <0.2  |
| CHA 85787       | Soil                             | 5     | 66    | 1.70  | 1089  | 0.135 | <1    | 2.65  | 0.019 | 0.52  | <0.1  | 0.01  | 13.9  | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| REP CHA 85787   | QC                               | 4     | 65    | 1.69  | 1097  | 0.135 | <1    | 2.65  | 0.020 | 0.52  | 0.1   | 0.02  | 13.6  | 0.2   | <0.05 | 10    | <0.5  | <0.2  |
| CHA 128630      | Soil                             | 16    | 31    | 0.82  | 406   | 0.080 | <1    | 1.83  | 0.013 | 0.12  | 0.1   | 0.04  | 4.7   | <0.1  | <0.05 | 6     | 0.7   | 0.3   |
| REP CHA 128630  | QC                               | 16    | 30    | 0.80  | 407   | 0.083 | <1    | 1.88  | 0.013 | 0.12  | 0.1   | 0.04  | 4.7   | <0.1  | <0.05 | 6     | 0.7   | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## QUALITY CONTROL REPORT

WHI10000264.1

|                     |          | 1DX15<br>Mo<br>ppm<br>0.1 | 1DX15<br>Cu<br>ppm<br>0.1 | 1DX15<br>Pb<br>ppm<br>0.1 | 1DX15<br>Zn<br>ppm<br>1 | 1DX15<br>Ag<br>ppm<br>0.1 | 1DX15<br>Ni<br>ppm<br>0.1 | 1DX15<br>Co<br>ppm<br>0.1 | 1DX15<br>Mn<br>ppm<br>1 | 1DX15<br>Fe<br>%<br>0.01 | 1DX15<br>As<br>ppm<br>0.5 | 1DX15<br>U<br>ppm<br>0.1 | 1DX15<br>Au<br>ppb<br>0.5 | 1DX15<br>Th<br>ppm<br>0.1 | 1DX15<br>Sr<br>ppm<br>1 | 1DX15<br>Cd<br>ppm<br>0.1 | 1DX15<br>Sb<br>ppm<br>0.1 | 1DX15<br>Bi<br>ppm<br>0.1 | 1DX15<br>V<br>ppm<br>2 | 1DX15<br>Ca<br>%<br>0.01 | 1DX15<br>P<br>%<br>0.001 |
|---------------------|----------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|---------------------------|------------------------|--------------------------|--------------------------|
| Reference Materials |          |                           |                           |                           |                         |                           |                           |                           |                         |                          |                           |                          |                           |                           |                         |                           |                           |                           |                        |                          |                          |
| STD DS7             | Standard | 23.4                      | 114.2                     | 68.4                      | 401                     | 1.0                       | 58.5                      | 9.5                       | 627                     | 2.44                     | 52.8                      | 4.9                      | 82.0                      | 4.9                       | 82                      | 6.0                       | 6.6                       | 4.7                       | 88                     | 0.90                     | 0.078                    |
| STD DS7             | Standard | 21.2                      | 113.1                     | 66.0                      | 401                     | 1.0                       | 53.0                      | 9.4                       | 627                     | 2.41                     | 52.7                      | 4.5                      | 69.9                      | 4.6                       | 70                      | 6.5                       | 6.2                       | 4.6                       | 81                     | 0.94                     | 0.075                    |
| STD DS7             | Standard | 20.3                      | 111.7                     | 63.2                      | 387                     | 1.0                       | 55.7                      | 9.6                       | 612                     | 2.28                     | 53.0                      | 4.3                      | 119.4                     | 4.1                       | 68                      | 5.9                       | 5.6                       | 4.3                       | 82                     | 0.92                     | 0.079                    |
| STD DS7             | Standard | 22.0                      | 112.8                     | 56.5                      | 384                     | 0.9                       | 54.7                      | 9.1                       | 601                     | 2.26                     | 51.6                      | 4.3                      | 63.8                      | 3.8                       | 76                      | 6.0                       | 5.7                       | 4.0                       | 83                     | 0.92                     | 0.073                    |
| STD DS7             | Standard | 19.9                      | 111.6                     | 68.6                      | 401                     | 1.0                       | 54.7                      | 9.2                       | 639                     | 2.38                     | 52.4                      | 4.8                      | 73.6                      | 4.2                       | 67                      | 6.3                       | 5.8                       | 4.7                       | 84                     | 0.92                     | 0.082                    |
| STD DS7             | Standard | 20.4                      | 100.5                     | 65.4                      | 383                     | 1.0                       | 51.6                      | 8.9                       | 618                     | 2.32                     | 48.8                      | 4.4                      | 77.5                      | 4.3                       | 74                      | 6.1                       | 5.3                       | 4.3                       | 81                     | 0.93                     | 0.072                    |
| STD DS7             | Standard | 22.3                      | 121.3                     | 65.7                      | 425                     | 1.0                       | 57.9                      | 9.8                       | 636                     | 2.39                     | 53.4                      | 5.1                      | 66.7                      | 4.6                       | 71                      | 6.6                       | 6.6                       | 5.1                       | 85                     | 0.96                     | 0.078                    |
| STD DS7 Expected    |          | 20.5                      | 109                       | 70.6                      | 411                     | 0.9                       | 56                        | 9.7                       | 627                     | 2.39                     | 48.2                      | 4.9                      | 70                        | 4.4                       | 69                      | 6.4                       | 4.6                       | 4.5                       | 84                     | 0.93                     | 0.08                     |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |
| BLK                 | Blank    | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <1                      | <0.01                    | <0.5                      | <0.1                     | <0.5                      | <0.1                      | <1                      | <0.1                      | <0.1                      | <0.1                      | <2                     | <0.01                    | <0.001                   |



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Report Date:

September 02, 2010

Page:

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Part 2

## QUALITY CONTROL REPORT

WHI10000264.1

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|                     |          | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    |
|                     |          | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |
|                     |          | 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   |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |
| STD DS7             | Standard | 14    | 198   | 1.06  | 426   | 0.126  | 42    | 1.06  | 0.103  | 0.46  | 3.7   | 0.24  | 2.5   | 4.4   | 0.17  | 5     | 3.4   |
| STD DS7             | Standard | 13    | 181   | 1.01  | 402   | 0.124  | 38    | 1.08  | 0.094  | 0.47  | 3.9   | 0.20  | 2.4   | 4.0   | 0.20  | 5     | 3.5   |
| STD DS7             | Standard | 12    | 185   | 1.05  | 399   | 0.119  | 46    | 1.06  | 0.102  | 0.45  | 3.6   | 0.21  | 2.3   | 4.2   | 0.21  | 5     | 3.8   |
| STD DS7             | Standard | 13    | 181   | 1.01  | 393   | 0.132  | 37    | 0.99  | 0.089  | 0.46  | 3.6   | 0.21  | 2.6   | 4.1   | 0.18  | 5     | 2.9   |
| STD DS7             | Standard | 12    | 185   | 1.07  | 398   | 0.114  | 41    | 1.03  | 0.108  | 0.48  | 3.5   | 0.22  | 2.6   | 4.1   | 0.22  | 5     | 3.3   |
| STD DS7             | Standard | 13    | 183   | 1.04  | 407   | 0.117  | 39    | 1.06  | 0.098  | 0.48  | 3.5   | 0.22  | 2.4   | 4.0   | 0.18  | 5     | 2.9   |
| STD DS7             | Standard | 13    | 191   | 1.11  | 415   | 0.134  | 38    | 1.08  | 0.098  | 0.48  | 3.7   | 0.24  | 2.4   | 4.1   | 0.22  | 5     | 3.2   |
| STD DS7 Expected    |          | 12    | 179   | 1.05  | 410   | 0.124  | 39    | 0.959 | 0.089  | 0.44  | 3.4   | 0.2   | 2.5   | 4.2   | 0.19  | 5     | 3.5   |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |



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Submitted By: Email Distribution

Receiving Lab: Canada-Whitehorse

Received: August 13, 2010

Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

### CLIENT JOB INFORMATION

Project: ECH  
Shipment ID: ECH1  
P.O. Number  
Number of Samples: 304

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Ryan Gold  
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Vancouver BC V6C1L6  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                           | Test Wgt (g) | Report Status | Lab |
|-------------|-------------------|--------------------------------------------|--------------|---------------|-----|
| SS80        | 304               | Dry at 60C sieve 100g to -80 mesh          |              |               | WHI |
| Dry at 60C  | 304               | Dry at 60C                                 |              |               | WHI |
| 1DX2        | 303               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     | VAN |

### ADDITIONAL COMMENTS



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



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Project:

ECH

Report Date:

September 02, 2010

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| ECH 128525 | Soil   |         |      |     | 0.9   | 18.3  | 8.6   | 67    | <0.1  | 22.8  | 12.1  | 464   | 2.97  | 5.6   | 2.5   | 4.3   | 5.0   | 15    | 0.2   | 0.3   | 0.3   | 64    | 0.27 | 0.084 |
| ECH 128524 | Soil   |         |      |     | 0.8   | 16.6  | 8.2   | 58    | <0.1  | 20.0  | 10.1  | 462   | 2.82  | 6.4   | 2.5   | 10.9  | 4.6   | 16    | 0.2   | 0.3   | 0.2   | 59    | 0.27 | 0.078 |
| ECH 128522 | Soil   |         |      |     | 0.6   | 17.7  | 9.4   | 51    | <0.1  | 20.8  | 11.0  | 364   | 3.07  | 6.9   | 1.5   | 3.1   | 4.6   | 11    | 0.1   | 0.4   | 0.2   | 58    | 0.15 | 0.033 |
| ECH 128521 | Soil   |         |      |     | 1.0   | 15.5  | 11.4  | 43    | <0.1  | 17.9  | 8.2   | 279   | 3.01  | 6.5   | 1.7   | 2.3   | 2.9   | 9     | 0.2   | 0.4   | 0.2   | 58    | 0.10 | 0.034 |
| ECH 111849 | Soil   |         |      |     | 1.7   | 20.5  | 12.4  | 48    | 0.2   | 17.2  | 5.7   | 243   | 2.59  | 4.7   | 5.8   | 1.7   | 2.4   | 24    | 0.2   | 0.4   | 0.3   | 48    | 0.34 | 0.080 |
| ECH 128520 | Soil   |         |      |     | 0.9   | 17.5  | 7.9   | 47    | <0.1  | 21.3  | 9.9   | 294   | 3.18  | 6.6   | 1.4   | 1.1   | 4.6   | 11    | <0.1  | 0.4   | 0.3   | 65    | 0.14 | 0.032 |
| ECH 111851 | Soil   |         |      |     | 1.1   | 19.1  | 9.5   | 47    | <0.1  | 18.9  | 8.2   | 272   | 2.79  | 8.4   | 0.9   | 2.9   | 3.4   | 13    | 0.2   | 0.5   | 0.2   | 76    | 0.16 | 0.031 |
| ECH 128519 | Soil   |         |      |     | 1.0   | 22.3  | 9.1   | 56    | <0.1  | 23.8  | 11.1  | 347   | 3.23  | 7.6   | 1.7   | 1.1   | 4.2   | 11    | 0.1   | 0.5   | 0.3   | 68    | 0.12 | 0.027 |
| ECH 111852 | Soil   |         |      |     | 1.4   | 17.3  | 10.7  | 51    | <0.1  | 15.9  | 6.7   | 288   | 2.83  | 8.6   | 1.0   | 3.0   | 3.2   | 11    | 0.1   | 0.6   | 0.3   | 76    | 0.11 | 0.026 |
| ECH 111855 | Soil   |         |      |     | 1.3   | 21.1  | 7.7   | 58    | <0.1  | 26.4  | 12.3  | 404   | 3.09  | 5.9   | 2.9   | 1.0   | 7.2   | 14    | 0.1   | 0.4   | 0.2   | 67    | 0.21 | 0.052 |
| ECH 111854 | Soil   |         |      |     | 0.9   | 20.4  | 9.1   | 49    | <0.1  | 20.1  | 9.8   | 380   | 3.07  | 7.0   | 3.3   | 2.9   | 8.2   | 12    | 0.2   | 0.5   | 0.3   | 69    | 0.13 | 0.027 |
| ECH 111853 | Soil   |         |      |     | 1.0   | 24.4  | 10.6  | 59    | <0.1  | 26.2  | 11.4  | 438   | 3.03  | 9.1   | 2.2   | 2.5   | 3.0   | 13    | 0.1   | 0.5   | 0.2   | 69    | 0.15 | 0.034 |
| ECH 111780 | Soil   |         |      |     | 3.1   | 72.9  | 12.3  | 251   | 0.3   | 66.6  | 18.3  | 421   | 3.95  | 5.0   | 15.2  | 4.0   | 5.3   | 26    | 0.8   | 0.4   | 1.8   | 119   | 0.44 | 0.155 |
| ECH 111777 | Soil   |         |      |     | 2.5   | 60.6  | 14.1  | 113   | 0.2   | 43.8  | 13.9  | 382   | 3.34  | 7.4   | 3.3   | 3.2   | 3.0   | 19    | 0.2   | 0.5   | 0.5   | 96    | 0.24 | 0.076 |
| ECH 111773 | Soil   |         |      |     | 0.8   | 20.7  | 12.5  | 62    | <0.1  | 23.2  | 10.8  | 519   | 2.85  | 5.8   | 7.7   | 2.6   | 4.5   | 14    | 0.1   | 0.4   | 0.6   | 78    | 0.23 | 0.041 |
| ECH 85572  | Soil   |         |      |     | 0.5   | 18.3  | 10.1  | 41    | 0.2   | 11.2  | 3.7   | 175   | 1.78  | 2.3   | 7.5   | 1.0   | 1.2   | 15    | 0.1   | 0.2   | 1.2   | 42    | 0.17 | 0.153 |
| ECH 85573  | Soil   |         |      |     | 0.4   | 17.9  | 7.0   | 64    | <0.1  | 17.2  | 8.3   | 331   | 2.44  | 3.6   | 2.0   | 2.5   | 6.8   | 22    | 0.1   | 0.3   | 0.6   | 60    | 0.34 | 0.086 |
| ECH 85586  | Soil   |         |      |     | 0.7   | 12.5  | 24.2  | 77    | <0.1  | 13.1  | 8.1   | 785   | 2.31  | 4.2   | 11.4  | 2.2   | 4.2   | 13    | 0.2   | 0.3   | 1.0   | 41    | 0.20 | 0.070 |
| ECH 85574  | Soil   |         |      |     | 0.6   | 29.1  | 7.0   | 70    | <0.1  | 25.1  | 9.4   | 351   | 2.67  | 6.1   | 1.4   | 4.7   | 4.8   | 19    | 0.2   | 0.4   | 0.3   | 66    | 0.30 | 0.076 |
| ECH 85579  | Soil   |         |      |     | 0.8   | 25.0  | 12.9  | 72    | <0.1  | 24.7  | 10.8  | 610   | 3.01  | 8.1   | 3.9   | 2.7   | 4.1   | 15    | 0.2   | 0.4   | 1.1   | 69    | 0.21 | 0.071 |
| ECH 85701  | Soil   |         |      |     | 0.5   | 14.1  | 11.4  | 57    | <0.1  | 16.1  | 7.1   | 249   | 1.91  | 3.5   | 3.9   | 1.6   | 5.2   | 15    | 0.1   | 0.3   | 0.3   | 48    | 0.27 | 0.072 |
| ECH 85575  | Soil   |         |      |     | 0.7   | 28.7  | 10.3  | 81    | <0.1  | 27.8  | 12.2  | 713   | 3.01  | 7.4   | 4.7   | 2.4   | 5.3   | 22    | 0.3   | 0.4   | 1.2   | 69    | 0.32 | 0.095 |
| ECH 85587  | Soil   |         |      |     | 0.4   | 11.0  | 23.2  | 48    | 0.1   | 13.2  | 5.7   | 155   | 1.98  | 3.9   | 7.6   | 0.9   | 3.1   | 13    | <0.1  | 0.3   | 0.7   | 47    | 0.19 | 0.066 |
| ECH 85578  | Soil   |         |      |     | 0.6   | 22.0  | 9.0   | 62    | <0.1  | 21.6  | 9.5   | 497   | 2.56  | 6.1   | 2.8   | 7.6   | 3.6   | 13    | 0.2   | 0.3   | 0.8   | 61    | 0.19 | 0.068 |
| ECH 111836 | Soil   |         |      |     | 1.1   | 25.1  | 16.4  | 63    | 0.2   | 18.3  | 12.3  | 679   | 2.97  | 6.2   | 6.8   | 0.9   | 2.7   | 26    | 0.4   | 0.3   | 0.4   | 59    | 0.31 | 0.060 |
| ECH 111822 | Soil   |         |      |     | 0.7   | 19.4  | 8.3   | 55    | <0.1  | 19.9  | 9.5   | 289   | 2.55  | 7.5   | 1.5   | 2.9   | 3.8   | 14    | 0.2   | 0.4   | 0.3   | 60    | 0.22 | 0.060 |
| ECH 111832 | Soil   |         |      |     | 1.5   | 17.2  | 13.3  | 67    | 0.2   | 24.2  | 11.5  | 402   | 3.58  | 8.8   | 6.8   | 2.6   | 5.0   | 22    | <0.1  | 0.3   | 0.3   | 78    | 0.38 | 0.065 |
| ECH 111837 | Soil   |         |      |     | 1.3   | 40.6  | 14.1  | 69    | 0.2   | 24.0  | 10.9  | 510   | 3.58  | 7.8   | 8.8   | 0.8   | 3.4   | 22    | 0.2   | 0.3   | 0.4   | 74    | 0.24 | 0.046 |
| ECH 111833 | Soil   |         |      |     | 1.9   | 21.2  | 18.1  | 76    | 0.2   | 28.4  | 13.0  | 763   | 3.63  | 7.2   | 13.2  | 3.8   | 3.8   | 32    | 0.1   | 0.3   | 0.4   | 70    | 0.54 | 0.059 |
| ECH 111850 | Soil   |         |      |     | 1.3   | 19.2  | 11.3  | 53    | <0.1  | 17.9  | 7.2   | 315   | 2.86  | 7.0   | 1.3   | 1.3   | 4.0   | 11    | 0.1   | 0.5   | 0.3   | 59    | 0.12 | 0.047 |



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**Project:** ECH  
**Report Date:** September 02, 2010

**Page:** 2 of 12 **Part** 2

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 128525 | Soil                             | 14    | 41    | 0.78  | 219   | 0.130 | 1     | 1.93  | 0.015 | 0.25  | 0.4   | 0.02  | 3.1   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 128524 | Soil                             | 14    | 31    | 0.60  | 154   | 0.108 | 1     | 1.75  | 0.015 | 0.17  | 0.4   | 0.03  | 3.1   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128522 | Soil                             | 13    | 36    | 0.61  | 89    | 0.091 | <1    | 2.22  | 0.009 | 0.13  | 0.2   | 0.04  | 3.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128521 | Soil                             | 10    | 33    | 0.51  | 62    | 0.088 | 1     | 1.87  | 0.007 | 0.14  | 0.2   | 0.06  | 2.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111849 | Soil                             | 55    | 27    | 0.35  | 386   | 0.037 | 2     | 1.56  | 0.015 | 0.09  | 0.2   | 0.07  | 3.2   | 0.3   | 0.10  | 5     | <0.5  | <0.2  |
| ECH 128520 | Soil                             | 15    | 35    | 0.71  | 121   | 0.121 | 2     | 2.18  | 0.010 | 0.22  | 0.2   | 0.03  | 3.4   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111851 | Soil                             | 10    | 29    | 0.37  | 116   | 0.098 | 1     | 1.93  | 0.009 | 0.07  | 0.2   | 0.06  | 2.7   | 0.1   | <0.05 | 8     | <0.5  | 0.2   |
| ECH 128519 | Soil                             | 13    | 35    | 0.66  | 97    | 0.117 | 1     | 2.42  | 0.010 | 0.19  | 0.2   | 0.05  | 3.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111852 | Soil                             | 11    | 27    | 0.33  | 67    | 0.095 | 2     | 1.58  | 0.007 | 0.07  | 0.2   | 0.04  | 2.3   | 0.1   | <0.05 | 8     | <0.5  | 0.2   |
| ECH 111855 | Soil                             | 13    | 36    | 0.67  | 147   | 0.108 | 2     | 2.16  | 0.012 | 0.19  | 0.8   | 0.05  | 3.9   | 0.4   | <0.05 | 6     | <0.5  | 0.2   |
| ECH 111854 | Soil                             | 22    | 31    | 0.43  | 141   | 0.095 | 2     | 1.89  | 0.010 | 0.09  | 0.2   | 0.04  | 3.7   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111853 | Soil                             | 10    | 35    | 0.60  | 109   | 0.086 | 2     | 2.33  | 0.011 | 0.07  | 0.1   | 0.05  | 3.3   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111780 | Soil                             | 16    | 47    | 1.01  | 373   | 0.136 | 1     | 2.26  | 0.022 | 0.43  | 0.3   | 0.02  | 4.6   | 0.4   | 0.06  | 7     | 1.6   | <0.2  |
| ECH 111777 | Soil                             | 12    | 41    | 0.73  | 213   | 0.116 | 1     | 2.22  | 0.014 | 0.19  | 0.2   | 0.05  | 3.4   | 0.2   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 111773 | Soil                             | 12    | 40    | 0.83  | 136   | 0.120 | 1     | 2.16  | 0.020 | 0.15  | 0.4   | 0.03  | 5.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85572  | Soil                             | 23    | 27    | 0.31  | 132   | 0.047 | <1    | 1.83  | 0.010 | 0.14  | <0.1  | 0.08  | 2.6   | 0.3   | 0.13  | 7     | <0.5  | <0.2  |
| ECH 85573  | Soil                             | 18    | 28    | 0.64  | 128   | 0.154 | <1    | 1.90  | 0.016 | 0.27  | <0.1  | 0.02  | 3.7   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85586  | Soil                             | 15    | 20    | 0.28  | 135   | 0.042 | <1    | 1.38  | 0.009 | 0.11  | <0.1  | 0.03  | 2.3   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85574  | Soil                             | 15    | 33    | 0.62  | 134   | 0.134 | 2     | 1.95  | 0.017 | 0.14  | 0.1   | 0.02  | 3.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85579  | Soil                             | 16    | 32    | 0.59  | 165   | 0.102 | 2     | 2.19  | 0.012 | 0.12  | 0.1   | 0.05  | 3.5   | 0.3   | <0.05 | 7     | <0.5  | 0.4   |
| ECH 85701  | Soil                             | 14    | 23    | 0.42  | 102   | 0.090 | 1     | 1.43  | 0.012 | 0.09  | 0.1   | 0.05  | 2.4   | 0.1   | <0.05 | 5     | <0.5  | 0.3   |
| ECH 85575  | Soil                             | 19    | 34    | 0.66  | 193   | 0.124 | 2     | 2.32  | 0.014 | 0.15  | 0.1   | 0.03  | 4.1   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85587  | Soil                             | 13    | 23    | 0.36  | 111   | 0.046 | <1    | 1.84  | 0.008 | 0.10  | 0.1   | 0.03  | 2.5   | 0.3   | <0.05 | 6     | <0.5  | 0.4   |
| ECH 85578  | Soil                             | 13    | 28    | 0.50  | 120   | 0.106 | 1     | 2.00  | 0.010 | 0.12  | 0.1   | 0.04  | 2.7   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111836 | Soil                             | 21    | 34    | 0.45  | 229   | 0.076 | <1    | 2.36  | 0.014 | 0.21  | 0.1   | 0.03  | 3.8   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111822 | Soil                             | 12    | 30    | 0.50  | 120   | 0.089 | 1     | 1.83  | 0.010 | 0.09  | 0.2   | 0.01  | 3.0   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111832 | Soil                             | 18    | 52    | 0.63  | 243   | 0.097 | 2     | 2.42  | 0.016 | 0.23  | 0.2   | 0.05  | 6.2   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111837 | Soil                             | 21    | 42    | 0.57  | 244   | 0.102 | 1     | 2.89  | 0.014 | 0.23  | 0.2   | 0.03  | 5.4   | 0.4   | <0.05 | 10    | <0.5  | <0.2  |
| ECH 111833 | Soil                             | 19    | 56    | 0.62  | 327   | 0.081 | 2     | 2.99  | 0.011 | 0.23  | 0.2   | 0.07  | 6.1   | 0.4   | <0.05 | 9     | <0.5  | 0.3   |
| ECH 111850 | Soil                             | 12    | 30    | 0.34  | 85    | 0.067 | 1     | 1.69  | 0.008 | 0.06  | 0.1   | 0.05  | 2.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| ECH 111823 | Soil   |         |      |     | 1.0   | 17.7  | 9.3   | 63    | <0.1  | 20.6  | 10.7  | 407   | 2.73  | 7.3   | 1.7   | 3.0   | 2.5   | 15    | 0.2   | 0.4   | 0.3   | 67    | 0.20 | 0.065 |
| ECH 111856 | Soil   |         |      |     | 1.1   | 17.5  | 5.0   | 70    | <0.1  | 7.1   | 9.6   | 477   | 2.91  | 0.9   | 4.7   | <0.5  | 6.2   | 21    | <0.1  | 0.1   | 1.0   | 91    | 0.56 | 0.089 |
| ECH 111821 | Soil   |         |      |     | 1.1   | 12.1  | 11.6  | 49    | 0.1   | 14.8  | 19.1  | 2075  | 2.59  | 6.9   | 1.7   | 1.3   | 1.3   | 12    | <0.1  | 0.3   | 0.3   | 59    | 0.15 | 0.061 |
| ECH 111835 | Soil   |         |      |     | 0.9   | 13.0  | 10.5  | 55    | <0.1  | 15.9  | 8.3   | 360   | 2.75  | 5.7   | 2.2   | 2.3   | 3.9   | 14    | 0.1   | 0.3   | 0.3   | 58    | 0.17 | 0.037 |
| ECH 111848 | Soil   |         |      |     | 1.7   | 15.8  | 8.9   | 49    | <0.1  | 11.4  | 4.7   | 324   | 2.15  | 4.6   | 1.7   | 2.5   | 0.9   | 14    | 0.1   | 0.6   | 0.3   | 60    | 0.13 | 0.058 |
| ECH 85683  | Soil   |         |      |     | 0.5   | 17.1  | 15.2  | 66    | <0.1  | 16.6  | 7.6   | 612   | 2.02  | 3.4   | 19.4  | 0.7   | 5.9   | 18    | 0.2   | 0.3   | 1.1   | 43    | 0.27 | 0.079 |
| ECH 85679  | Soil   |         |      |     | 0.4   | 17.2  | 14.7  | 56    | <0.1  | 18.4  | 6.7   | 357   | 1.98  | 2.8   | 5.3   | 0.9   | 5.6   | 21    | <0.1  | 0.2   | 0.7   | 48    | 0.29 | 0.070 |
| ECH 85681  | Soil   |         |      |     | 0.6   | 18.0  | 9.3   | 56    | <0.1  | 18.9  | 7.7   | 343   | 2.12  | 5.1   | 2.8   | 4.5   | 3.3   | 13    | 0.2   | 0.4   | 0.3   | 52    | 0.19 | 0.070 |
| ECH 85682  | Soil   |         |      |     | 0.5   | 16.4  | 14.3  | 66    | <0.1  | 18.3  | 7.7   | 585   | 2.16  | 4.5   | 12.3  | 0.5   | 4.6   | 14    | 0.2   | 0.3   | 0.4   | 50    | 0.23 | 0.089 |
| ECH 111783 | Soil   |         |      |     | 1.1   | 15.5  | 13.2  | 103   | 0.1   | 28.5  | 10.8  | 261   | 2.71  | 3.4   | 3.0   | 4.8   | 5.0   | 13    | 0.1   | 0.3   | 1.0   | 84    | 0.22 | 0.063 |
| ECH 128505 | Soil   |         |      |     | 0.6   | 13.8  | 6.4   | 45    | <0.1  | 17.4  | 7.7   | 394   | 2.49  | 4.6   | 3.3   | 3.5   | 5.8   | 11    | 0.2   | 0.3   | 1.1   | 48    | 0.26 | 0.103 |
| ECH 111788 | Soil   |         |      |     | 0.6   | 13.0  | 11.3  | 65    | <0.1  | 14.8  | 4.1   | 133   | 1.32  | 2.2   | 2.7   | 2.4   | 5.6   | 12    | 0.2   | 0.3   | 1.1   | 53    | 0.20 | 0.059 |
| ECH 111786 | Soil   |         |      |     | 0.9   | 29.2  | 12.7  | 71    | 0.2   | 17.1  | 4.9   | 185   | 1.56  | 4.5   | 11.3  | 4.3   | 4.3   | 12    | 0.3   | 0.3   | 1.1   | 46    | 0.17 | 0.056 |
| ECH 111782 | Soil   |         |      |     | 1.7   | 24.8  | 15.2  | 120   | 0.2   | 27.1  | 6.8   | 181   | 2.41  | 5.3   | 4.7   | 2.2   | 5.2   | 14    | 0.3   | 0.4   | 1.2   | 98    | 0.25 | 0.083 |
| ECH 105715 | Soil   |         |      |     | 1.2   | 16.6  | 14.5  | 54    | <0.1  | 19.0  | 7.0   | 320   | 2.96  | 8.6   | 4.2   | 2.9   | 3.5   | 19    | 0.3   | 0.4   | 0.4   | 70    | 0.19 | 0.039 |
| ECH 128506 | Soil   |         |      |     | 0.5   | 17.2  | 5.3   | 53    | <0.1  | 20.2  | 8.7   | 483   | 2.29  | 4.5   | 3.0   | 7.2   | 7.1   | 15    | 0.2   | 0.3   | 0.2   | 52    | 0.30 | 0.100 |
| ECH 85692  | Soil   |         |      |     | 0.4   | 8.8   | 8.9   | 33    | <0.1  | 10.3  | 3.1   | 93    | 1.43  | 3.0   | 1.2   | 5.2   | 1.4   | 11    | 0.2   | 0.3   | 0.2   | 43    | 0.14 | 0.063 |
| ECH 111858 | Soil   |         |      |     | 1.7   | 12.9  | 8.4   | 40    | <0.1  | 11.0  | 6.6   | 704   | 2.31  | 5.1   | 1.0   | 2.4   | 1.8   | 14    | 0.2   | 0.5   | 0.2   | 71    | 0.12 | 0.055 |
| ECH 85676  | Soil   |         |      |     | 0.5   | 14.4  | 23.1  | 50    | <0.1  | 17.6  | 5.9   | 329   | 1.78  | 4.3   | 2.5   | 2.5   | 2.9   | 14    | 0.1   | 0.3   | 0.3   | 42    | 0.17 | 0.064 |
| ECH 111861 | Soil   |         |      |     | 0.7   | 15.1  | 8.8   | 45    | 0.1   | 19.9  | 10.6  | 369   | 2.70  | 5.4   | 2.5   | 5.1   | 7.6   | 15    | 0.2   | 0.2   | 0.1   | 55    | 0.22 | 0.067 |
| ECH 111860 | Soil   |         |      |     | 0.8   | 16.7  | 10.1  | 45    | 0.1   | 20.3  | 9.0   | 253   | 2.73  | 6.4   | 1.6   | 2.1   | 4.8   | 13    | <0.1  | 0.3   | 0.2   | 60    | 0.18 | 0.047 |
| ECH 111866 | Soil   |         |      |     | 1.0   | 13.7  | 14.2  | 50    | <0.1  | 20.7  | 9.8   | 351   | 2.78  | 6.0   | 3.7   | 1.8   | 7.6   | 24    | 0.1   | 0.4   | 0.2   | 55    | 0.41 | 0.083 |
| ECH 111857 | Soil   |         |      |     | 1.0   | 18.7  | 8.5   | 50    | <0.1  | 20.9  | 9.8   | 325   | 2.51  | 5.9   | 3.4   | 3.2   | 8.6   | 20    | 0.2   | 0.4   | 0.3   | 59    | 0.25 | 0.059 |
| ECH 111859 | Soil   |         |      |     | 0.9   | 14.1  | 8.4   | 37    | <0.1  | 18.4  | 8.7   | 230   | 2.65  | 6.0   | 1.1   | 1.9   | 5.6   | 14    | 0.2   | 0.4   | 0.2   | 59    | 0.19 | 0.051 |
| ECH 85607  | Soil   |         |      |     | 0.6   | 26.0  | 11.3  | 70    | <0.1  | 24.4  | 10.3  | 414   | 2.76  | 5.9   | 4.8   | 2.4   | 4.4   | 32    | 0.3   | 0.4   | 0.2   | 65    | 0.46 | 0.089 |
| ECH 111864 | Soil   |         |      |     | 0.7   | 13.7  | 9.2   | 42    | <0.1  | 22.2  | 11.5  | 320   | 2.81  | 6.4   | 1.7   | 5.8   | 6.6   | 14    | 0.2   | 0.3   | 0.2   | 56    | 0.22 | 0.065 |
| ECH 111862 | Soil   |         |      |     | 1.0   | 11.7  | 7.7   | 36    | <0.1  | 15.3  | 7.1   | 288   | 2.49  | 4.7   | 0.8   | 2.3   | 3.1   | 13    | <0.1  | 0.3   | 0.1   | 57    | 0.15 | 0.040 |
| ECH 85608  | Soil   |         |      |     | 0.5   | 16.4  | 12.5  | 60    | <0.1  | 32.4  | 9.3   | 480   | 2.17  | 3.1   | 9.7   | 5.3   | 4.5   | 22    | 0.2   | 0.2   | 0.2   | 54    | 0.29 | 0.088 |
| ECH 111863 | Soil   |         |      |     | 0.6   | 17.9  | 7.3   | 47    | <0.1  | 24.5  | 13.7  | 310   | 3.06  | 5.2   | 0.8   | 4.3   | 4.5   | 22    | 0.2   | 0.3   | 0.2   | 66    | 0.32 | 0.073 |
| ECH 111831 | Soil   |         |      |     | 1.3   | 17.9  | 13.7  | 72    | 0.2   | 21.9  | 10.2  | 512   | 2.87  | 6.0   | 5.2   | 1.9   | 3.5   | 26    | 0.2   | 0.3   | 0.3   | 61    | 0.33 | 0.056 |



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September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 111823 | Soil                             | 11    | 36    | 0.57  | 146   | 0.087 | 2     | 2.07  | 0.010 | 0.08  | 0.1   | 0.02  | 3.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111856 | Soil                             | 19    | 17    | 1.04  | 342   | 0.146 | 2     | 1.53  | 0.025 | 0.63  | 3.9   | 0.03  | 5.4   | 0.6   | 0.06  | 9     | <0.5  | <0.2  |
| ECH 111821 | Soil                             | 9     | 28    | 0.40  | 128   | 0.061 | 1     | 1.55  | 0.010 | 0.07  | 0.1   | 0.03  | 2.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111835 | Soil                             | 12    | 29    | 0.49  | 137   | 0.109 | 1     | 1.90  | 0.011 | 0.19  | 0.1   | 0.02  | 2.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111848 | Soil                             | 9     | 20    | 0.14  | 136   | 0.049 | <1    | 0.81  | 0.008 | 0.08  | 0.1   | 0.08  | 1.3   | 0.1   | 0.07  | 6     | <0.5  | <0.2  |
| ECH 85683  | Soil                             | 16    | 20    | 0.30  | 95    | 0.070 | <1    | 1.26  | 0.015 | 0.08  | <0.1  | 0.02  | 2.8   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 85679  | Soil                             | 16    | 32    | 0.55  | 114   | 0.087 | 1     | 1.66  | 0.014 | 0.16  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85681  | Soil                             | 11    | 24    | 0.48  | 83    | 0.078 | 1     | 1.76  | 0.012 | 0.07  | 0.2   | 0.04  | 2.1   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85682  | Soil                             | 14    | 23    | 0.40  | 100   | 0.074 | 1     | 1.57  | 0.011 | 0.08  | <0.1  | 0.04  | 2.5   | 0.2   | <0.05 | 4     | <0.5  | 0.3   |
| ECH 111783 | Soil                             | 12    | 74    | 0.92  | 225   | 0.118 | 1     | 1.94  | 0.012 | 0.25  | 0.1   | 0.04  | 5.4   | 0.3   | <0.05 | 7     | 0.6   | <0.2  |
| ECH 128505 | Soil                             | 15    | 26    | 0.44  | 115   | 0.086 | 1     | 1.43  | 0.012 | 0.18  | 0.6   | 0.03  | 2.5   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111788 | Soil                             | 13    | 33    | 0.46  | 153   | 0.089 | 1     | 1.63  | 0.010 | 0.14  | 0.2   | 0.05  | 3.2   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111786 | Soil                             | 13    | 31    | 0.43  | 186   | 0.061 | 1     | 1.63  | 0.009 | 0.17  | 0.1   | 0.07  | 3.8   | 0.3   | 0.07  | 5     | 0.7   | <0.2  |
| ECH 111782 | Soil                             | 14    | 40    | 0.76  | 243   | 0.107 | <1    | 1.85  | 0.011 | 0.27  | 0.2   | 0.03  | 3.3   | 0.3   | <0.05 | 6     | 0.9   | 0.3   |
| ECH 105715 | Soil                             | 13    | 31    | 0.47  | 170   | 0.078 | 2     | 2.11  | 0.012 | 0.15  | 0.1   | 0.02  | 2.9   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 128506 | Soil                             | 17    | 26    | 0.64  | 133   | 0.119 | 1     | 1.52  | 0.016 | 0.24  | 0.3   | 0.02  | 2.9   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85692  | Soil                             | 10    | 23    | 0.28  | 60    | 0.060 | 2     | 1.38  | 0.009 | 0.06  | <0.1  | 0.05  | 1.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111858 | Soil                             | 9     | 21    | 0.17  | 118   | 0.073 | 1     | 0.97  | 0.010 | 0.06  | 0.3   | 0.10  | 1.3   | <0.1  | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85676  | Soil                             | 12    | 21    | 0.34  | 68    | 0.052 | 1     | 1.47  | 0.010 | 0.06  | 0.1   | 0.03  | 1.6   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |
| ECH 111861 | Soil                             | 16    | 29    | 0.56  | 97    | 0.100 | 1     | 1.84  | 0.012 | 0.17  | 0.2   | 0.06  | 2.8   | 0.2   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 111860 | Soil                             | 13    | 34    | 0.61  | 108   | 0.095 | 3     | 2.18  | 0.011 | 0.16  | 0.5   | 0.06  | 3.4   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111866 | Soil                             | 18    | 30    | 0.50  | 185   | 0.068 | 1     | 1.54  | 0.016 | 0.16  | 0.2   | 0.05  | 3.5   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111857 | Soil                             | 17    | 32    | 0.51  | 140   | 0.092 | 2     | 1.75  | 0.015 | 0.12  | 0.7   | 0.03  | 3.4   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111859 | Soil                             | 13    | 32    | 0.55  | 111   | 0.097 | 1     | 1.99  | 0.011 | 0.14  | 0.6   | 0.05  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85607  | Soil                             | 14    | 38    | 0.61  | 147   | 0.124 | 2     | 1.73  | 0.035 | 0.15  | 0.2   | 0.03  | 4.5   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111864 | Soil                             | 15    | 31    | 0.58  | 115   | 0.097 | 1     | 2.33  | 0.013 | 0.18  | 0.2   | 0.06  | 3.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111862 | Soil                             | 11    | 28    | 0.45  | 84    | 0.096 | 1     | 1.51  | 0.010 | 0.12  | 0.2   | 0.06  | 2.2   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85608  | Soil                             | 15    | 58    | 0.69  | 155   | 0.105 | <1    | 1.72  | 0.018 | 0.25  | 0.2   | 0.02  | 4.0   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111863 | Soil                             | 11    | 33    | 0.76  | 144   | 0.135 | 1     | 2.53  | 0.016 | 0.24  | 0.1   | 0.03  | 3.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111831 | Soil                             | 17    | 41    | 0.61  | 239   | 0.089 | 2     | 2.31  | 0.013 | 0.18  | 0.2   | 0.06  | 4.3   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      |
|------------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
|            |                                  | Mo         | Cu         | Pb         | Zn       | Ag         | Ni         | Co         | Mn       | Fe        | As         | U          | Au         | Th         | Sr       | Cd         | Sb         | Bi         | V        | Ca        | P          |
|            |                                  | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| ECH 111785 | Soil                             | 1.3        | 22.9       | 14.7       | 96       | 0.1        | 23.0       | 5.2        | 209      | 1.86      | 6.3        | 7.3        | 2.6        | 5.5        | 14       | 0.2        | 0.3        | 2.1        | 64       | 0.21      | 0.067      |
| ECH 85680  | Soil                             | 0.4        | 13.9       | 8.6        | 59       | <0.1       | 28.3       | 10.4       | 558      | 2.35      | 2.8        | 7.1        | 1.3        | 4.9        | 29       | 0.1        | 0.2        | 0.6        | 54       | 0.35      | 0.091      |
| ECH 111784 | Soil                             | 1.4        | 33.2       | 15.8       | 109      | 0.1        | 30.9       | 8.3        | 227      | 2.69      | 7.8        | 8.8        | 1.5        | 5.6        | 19       | 0.2        | 0.4        | 1.7        | 77       | 0.28      | 0.074      |
| ECH 128507 | Soil                             | 1.5        | 19.8       | 8.5        | 53       | <0.1       | 23.0       | 10.5       | 485      | 2.66      | 6.9        | 3.5        | 3.7        | 4.2        | 16       | 0.3        | 0.4        | 0.4        | 59       | 0.24      | 0.078      |
| ECH 105716 | Soil                             | 0.7        | 20.3       | 6.5        | 60       | <0.1       | 20.1       | 8.0        | 460      | 2.39      | 4.3        | 7.8        | 2.5        | 6.9        | 14       | 0.2        | 0.3        | 0.7        | 52       | 0.27      | 0.104      |
| ECH 111781 | Soil                             | 2.9        | 42.8       | 23.5       | 191      | 0.4        | 42.2       | 8.7        | 205      | 2.58      | 5.2        | 9.9        | 2.5        | 4.9        | 21       | 0.5        | 0.5        | 0.8        | 103      | 0.31      | 0.114      |
| ECH 111787 | Soil                             | 0.6        | 16.5       | 11.2       | 69       | 0.1        | 16.5       | 3.7        | 128      | 1.61      | 4.0        | 4.6        | 2.6        | 4.3        | 12       | 0.2        | 0.3        | 1.5        | 60       | 0.15      | 0.040      |
| ECH 111961 | Soil                             | 1.0        | 6.0        | 7.8        | 16       | 0.1        | 4.6        | 1.3        | 119      | 0.75      | 1.1        | 2.5        | 0.7        | 0.3        | 14       | <0.1       | 0.1        | 0.2        | 22       | 0.14      | 0.095      |
| ECH 128508 | Soil                             | 1.5        | 11.1       | 10.4       | 50       | <0.1       | 18.5       | 8.3        | 446      | 2.24      | 3.9        | 4.0        | 3.3        | 5.3        | 13       | 0.1        | 0.3        | 0.4        | 54       | 0.17      | 0.051      |
| ECH 85570  | Soil                             | 0.8        | 19.5       | 7.8        | 64       | <0.1       | 19.8       | 9.2        | 421      | 2.65      | 5.4        | 2.9        | 1.5        | 3.2        | 12       | 0.2        | 0.4        | 0.3        | 57       | 0.21      | 0.099      |
| ECH 128504 | Soil                             | 0.8        | 17.2       | 8.1        | 63       | <0.1       | 21.8       | 9.4        | 479      | 2.64      | 4.5        | 3.9        | 1.9        | 7.0        | 12       | 0.1        | 0.2        | 0.5        | 53       | 0.22      | 0.095      |
| ECH 85639  | Soil                             | 0.9        | 19.1       | 10.0       | 60       | 0.1        | 19.2       | 9.8        | 669      | 2.42      | 5.9        | 5.0        | 0.9        | 2.2        | 21       | 0.2        | 0.3        | 0.3        | 56       | 0.24      | 0.048      |
| ECH 85638  | Soil                             | 1.7        | 17.8       | 16.1       | 67       | <0.1       | 28.8       | 13.4       | 524      | 3.54      | 8.9        | 2.7        | 9.5        | 4.2        | 17       | 0.3        | 0.4        | 0.4        | 70       | 0.20      | 0.045      |
| ECH 111953 | Soil                             | 1.8        | 30.9       | 8.6        | 77       | <0.1       | 33.1       | 13.6       | 476      | 2.92      | 6.9        | 2.1        | 5.1        | 3.3        | 14       | 0.3        | 0.5        | 0.9        | 66       | 0.17      | 0.040      |
| ECH 85635  | Soil                             | 0.9        | 20.4       | 13.0       | 61       | <0.1       | 25.5       | 11.4       | 432      | 2.93      | 8.3        | 5.6        | 2.4        | 5.9        | 20       | <0.1       | 0.5        | 0.4        | 56       | 0.23      | 0.042      |
| ECH 85637  | Soil                             | 1.3        | 14.2       | 14.9       | 63       | <0.1       | 18.4       | 9.0        | 517      | 2.64      | 5.0        | 11.1       | 2.9        | 5.1        | 19       | 0.1        | 0.3        | 0.6        | 48       | 0.31      | 0.076      |
| ECH 111957 | Soil                             | 1.3        | 13.9       | 10.6       | 44       | <0.1       | 10.9       | 4.4        | 178      | 1.95      | 5.0        | 0.8        | 2.4        | 1.1        | 9        | 0.2        | 0.5        | 0.5        | 60       | 0.08      | 0.054      |
| ECH 111951 | Soil                             | 0.6        | 13.1       | 8.5        | 70       | <0.1       | 15.1       | 5.2        | 208      | 1.86      | 4.2        | 2.4        | 3.9        | 3.1        | 14       | 0.2        | 0.4        | 1.8        | 42       | 0.24      | 0.084      |
| ECH 111511 | Soil                             | 1.0        | 12.6       | 14.7       | 67       | <0.1       | 19.3       | 7.0        | 320      | 3.01      | 9.1        | 5.6        | 0.7        | 3.4        | 17       | 0.2        | 0.5        | 0.5        | 59       | 0.22      | 0.061      |
| ECH 111586 | Soil                             | 0.6        | 27.4       | 14.4       | 73       | <0.1       | 18.9       | 12.7       | 478      | 3.66      | 4.9        | 18.4       | 2.7        | 9.4        | 27       | 0.2        | 0.4        | 0.3        | 93       | 0.55      | 0.129      |
| ECH 105708 | Soil                             | 0.5        | 18.4       | 13.4       | 66       | <0.1       | 16.5       | 7.8        | 317      | 2.42      | 5.3        | 5.8        | 2.4        | 7.8        | 17       | 0.2        | 0.6        | 0.5        | 50       | 0.27      | 0.078      |
| ECH 111966 | Soil                             | 0.8        | 22.2       | 10.1       | 60       | <0.1       | 26.8       | 10.8       | 447      | 2.63      | 7.9        | 0.7        | 7.6        | 2.6        | 12       | <0.1       | 0.5        | 0.2        | 56       | 0.15      | 0.038      |
| ECH 111584 | Soil                             | 0.2        | 9.5        | 13.2       | 82       | <0.1       | 9.4        | 7.2        | 470      | 2.32      | 1.4        | 3.6        | <0.5       | 6.7        | 16       | <0.1       | 0.3        | 0.5        | 40       | 0.36      | 0.108      |
| ECH 111210 | Soil                             | 0.6        | 19.1       | 9.0        | 67       | <0.1       | 21.9       | 6.8        | 218      | 2.23      | 5.9        | 2.3        | 3.3        | 3.6        | 20       | 0.2        | 0.4        | 0.3        | 57       | 0.34      | 0.096      |
| ECH 85636  | Soil                             | 1.3        | 14.7       | 14.7       | 68       | <0.1       | 18.9       | 9.6        | 528      | 2.89      | 5.5        | 10.9       | 1.8        | 5.0        | 22       | 0.1        | 0.3        | 0.5        | 50       | 0.35      | 0.080      |
| ECH 111973 | Soil                             | 0.5        | 19.8       | 11.2       | 72       | <0.1       | 20.1       | 9.3        | 510      | 2.58      | 4.8        | 3.5        | 3.7        | 6.0        | 29       | 0.2        | 0.4        | 0.4        | 58       | 0.35      | 0.096      |
| ECH 111975 | Soil                             | 0.3        | 11.0       | 11.0       | 59       | <0.1       | 11.6       | 5.2        | 432      | 1.74      | 2.3        | 2.4        | 1.6        | 5.7        | 25       | 0.1        | 0.2        | 1.3        | 34       | 0.24      | 0.075      |
| ECH 111974 | Soil                             | 0.4        | 16.6       | 7.3        | 59       | <0.1       | 14.6       | 7.7        | 323      | 1.99      | 2.7        | 3.4        | 7.2        | 4.1        | 27       | 0.1        | 0.2        | 0.7        | 46       | 0.33      | 0.088      |
| ECH 85631  | Soil                             | 1.1        | 15.8       | 19.5       | 72       | 0.2        | 18.4       | 8.8        | 458      | 2.40      | 8.4        | 13.7       | 0.9        | 2.9        | 18       | 0.2        | 0.4        | 0.9        | 56       | 0.22      | 0.072      |
| ECH 85630  | Soil                             | 0.6        | 15.8       | 13.9       | 82       | <0.1       | 20.6       | 9.4        | 498      | 2.75      | 5.1        | 15.5       | 4.6        | 3.0        | 19       | 0.2        | 0.3        | 0.7        | 53       | 0.27      | 0.090      |



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September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 111785 | Soil                             | 14    | 39    | 0.70  | 207   | 0.118 | 1     | 2.18  | 0.010 | 0.35  | 0.1   | 0.04  | 3.9   | 0.4   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85680  | Soil                             | 16    | 52    | 0.83  | 156   | 0.134 | 1     | 1.80  | 0.024 | 0.34  | 0.1   | 0.02  | 3.6   | 0.4   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111784 | Soil                             | 15    | 48    | 0.70  | 205   | 0.107 | 1     | 1.70  | 0.016 | 0.21  | 0.2   | 0.03  | 4.3   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 128507 | Soil                             | 13    | 29    | 0.53  | 147   | 0.088 | 1     | 1.80  | 0.016 | 0.09  | 0.2   | 0.03  | 2.8   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 105716 | Soil                             | 18    | 26    | 0.45  | 128   | 0.117 | <1    | 1.68  | 0.016 | 0.23  | 0.2   | 0.02  | 2.9   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111781 | Soil                             | 15    | 45    | 0.82  | 253   | 0.117 | 1     | 2.08  | 0.015 | 0.28  | 0.2   | 0.04  | 3.6   | 0.3   | <0.05 | 6     | 1.3   | <0.2  |
| ECH 111787 | Soil                             | 12    | 40    | 0.47  | 172   | 0.097 | <1    | 1.57  | 0.010 | 0.16  | 0.2   | 0.05  | 3.2   | 0.2   | 0.06  | 6     | <0.5  | <0.2  |
| ECH 111961 | Soil                             | 5     | 12    | 0.10  | 71    | 0.026 | <1    | 0.57  | 0.016 | 0.05  | <0.1  | 0.08  | 0.8   | 0.2   | 0.10  | 3     | <0.5  | <0.2  |
| ECH 128508 | Soil                             | 15    | 29    | 0.61  | 139   | 0.122 | 1     | 1.61  | 0.012 | 0.20  | 0.5   | 0.03  | 2.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85570  | Soil                             | 13    | 25    | 0.45  | 92    | 0.089 | 1     | 1.67  | 0.012 | 0.18  | 0.2   | 0.05  | 2.4   | 0.3   | 0.06  | 7     | <0.5  | <0.2  |
| ECH 128504 | Soil                             | 16    | 31    | 0.62  | 164   | 0.124 | <1    | 2.09  | 0.013 | 0.32  | 0.7   | 0.03  | 3.0   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85639  | Soil                             | 13    | 27    | 0.42  | 190   | 0.073 | 1     | 1.66  | 0.017 | 0.14  | 0.1   | 0.03  | 2.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85638  | Soil                             | 11    | 43    | 0.66  | 144   | 0.113 | 2     | 2.12  | 0.010 | 0.18  | 0.3   | 0.03  | 3.4   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111953 | Soil                             | 10    | 31    | 0.58  | 101   | 0.107 | 2     | 1.99  | 0.013 | 0.10  | 0.2   | 0.04  | 2.9   | 0.3   | 0.06  | 5     | 0.8   | <0.2  |
| ECH 85635  | Soil                             | 15    | 32    | 0.59  | 180   | 0.087 | 1     | 2.20  | 0.012 | 0.10  | 0.2   | 0.03  | 3.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85637  | Soil                             | 18    | 28    | 0.49  | 135   | 0.068 | 1     | 1.61  | 0.011 | 0.18  | 0.2   | 0.02  | 3.0   | 0.3   | <0.05 | 6     | 0.5   | <0.2  |
| ECH 111957 | Soil                             | 8     | 19    | 0.18  | 51    | 0.071 | 1     | 1.18  | 0.007 | 0.05  | 0.1   | 0.06  | 1.4   | 0.1   | 0.08  | 7     | <0.5  | <0.2  |
| ECH 111951 | Soil                             | 12    | 21    | 0.27  | 67    | 0.063 | 1     | 1.39  | 0.009 | 0.04  | 0.1   | 0.04  | 1.7   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 111511 | Soil                             | 11    | 30    | 0.50  | 140   | 0.083 | 2     | 1.93  | 0.008 | 0.15  | 0.2   | 0.03  | 3.0   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111586 | Soil                             | 30    | 27    | 1.28  | 235   | 0.189 | 1     | 2.60  | 0.016 | 0.54  | 0.3   | 0.03  | 8.1   | 0.6   | <0.05 | 10    | <0.5  | <0.2  |
| ECH 105708 | Soil                             | 22    | 27    | 0.46  | 121   | 0.088 | 1     | 1.47  | 0.011 | 0.14  | 0.2   | 0.04  | 4.3   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111966 | Soil                             | 9     | 28    | 0.55  | 83    | 0.080 | 2     | 1.90  | 0.014 | 0.08  | 0.2   | 0.04  | 2.9   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111584 | Soil                             | 18    | 14    | 0.70  | 118   | 0.090 | <1    | 2.02  | 0.009 | 0.61  | 0.1   | 0.01  | 3.8   | 0.8   | <0.05 | 10    | <0.5  | <0.2  |
| ECH 111210 | Soil                             | 12    | 32    | 0.55  | 110   | 0.085 | 1     | 1.68  | 0.012 | 0.08  | 0.3   | 0.04  | 2.9   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85636  | Soil                             | 20    | 29    | 0.50  | 141   | 0.079 | 1     | 1.69  | 0.011 | 0.19  | 0.2   | 0.03  | 3.3   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111973 | Soil                             | 18    | 32    | 0.56  | 172   | 0.125 | 1     | 1.83  | 0.014 | 0.20  | 0.1   | 0.04  | 4.7   | 0.4   | <0.05 | 6     | <0.5  | 0.2   |
| ECH 111975 | Soil                             | 15    | 18    | 0.34  | 96    | 0.080 | <1    | 1.50  | 0.010 | 0.16  | 0.1   | 0.03  | 2.8   | 0.5   | <0.05 | 5     | 0.5   | <0.2  |
| ECH 111974 | Soil                             | 14    | 25    | 0.45  | 133   | 0.120 | <1    | 1.55  | 0.013 | 0.17  | <0.1  | 0.02  | 3.6   | 0.2   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85631  | Soil                             | 14    | 30    | 0.54  | 182   | 0.057 | 1     | 1.94  | 0.011 | 0.14  | 0.1   | 0.04  | 3.8   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85630  | Soil                             | 18    | 32    | 0.62  | 148   | 0.064 | <1    | 1.98  | 0.009 | 0.11  | 0.2   | 0.02  | 4.3   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |



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ECH

Report Date:

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| ECH 85632  | Soil   |         |      |     | 1.6   | 15.0  | 16.1  | 73    | <0.1  | 18.8  | 8.1   | 504   | 2.52  | 6.1   | 9.2   | 1.7   | 4.0   | 19    | 0.2   | 0.5   | 1.0   | 49    | 0.25 | 0.054 |
| ECH 111978 | Soil   |         |      |     | 0.5   | 18.0  | 9.2   | 66    | <0.1  | 20.0  | 8.6   | 545   | 2.34  | 4.8   | 3.8   | 1.7   | 4.5   | 17    | 0.2   | 0.3   | 0.4   | 51    | 0.21 | 0.064 |
| ECH 111982 | Soil   |         |      |     | 0.9   | 18.6  | 14.6  | 62    | <0.1  | 20.8  | 8.5   | 462   | 2.70  | 7.5   | 2.1   | 7.9   | 2.5   | 11    | 0.3   | 0.5   | 0.8   | 59    | 0.14 | 0.056 |
| ECH 111980 | Soil   |         |      |     | 0.9   | 20.1  | 11.3  | 62    | <0.1  | 24.7  | 10.5  | 468   | 2.91  | 8.2   | 2.1   | 1.5   | 3.5   | 14    | 0.2   | 0.5   | 0.5   | 67    | 0.17 | 0.042 |
| ECH 111963 | Soil   |         |      |     | 0.6   | 16.3  | 11.3  | 68    | <0.1  | 18.0  | 6.9   | 459   | 2.14  | 4.0   | 2.7   | 2.1   | 3.9   | 25    | 0.1   | 0.3   | 0.6   | 45    | 0.25 | 0.075 |
| ECH 111976 | Soil   |         |      |     | 0.6   | 19.9  | 9.3   | 66    | <0.1  | 21.6  | 8.6   | 343   | 2.39  | 5.5   | 2.0   | 5.2   | 3.9   | 18    | 0.2   | 0.4   | 0.7   | 52    | 0.25 | 0.077 |
| ECH 85633  | Soil   |         |      |     | 2.2   | 15.1  | 14.8  | 73    | <0.1  | 19.4  | 8.5   | 450   | 2.74  | 6.5   | 9.0   | 3.7   | 4.5   | 20    | 0.2   | 0.3   | 0.7   | 54    | 0.25 | 0.043 |
| ECH 85544  | Soil   |         |      |     | 0.7   | 32.4  | 18.2  | 82    | <0.1  | 28.0  | 11.9  | 353   | 2.55  | 7.4   | 11.9  | 4.0   | 4.9   | 23    | 0.4   | 0.6   | 0.5   | 63    | 0.32 | 0.101 |
| ECH 85537  | Soil   |         |      |     | 0.7   | 16.9  | 10.8  | 58    | <0.1  | 20.2  | 7.8   | 270   | 2.36  | 5.1   | 3.1   | 5.8   | 4.2   | 16    | 0.2   | 0.4   | 0.3   | 53    | 0.25 | 0.073 |
| ECH 85540  | Soil   |         |      |     | 0.6   | 17.2  | 11.9  | 60    | <0.1  | 18.7  | 8.5   | 417   | 2.32  | 5.7   | 2.9   | 5.4   | 4.2   | 13    | 0.2   | 0.4   | 0.4   | 52    | 0.18 | 0.067 |
| ECH 85538  | Soil   |         |      |     | 1.2   | 18.9  | 22.6  | 68    | <0.1  | 25.2  | 10.5  | 709   | 3.05  | 7.2   | 5.2   | 2.7   | 2.8   | 17    | 0.2   | 0.4   | 1.0   | 74    | 0.18 | 0.079 |
| ECH 85634  | Soil   |         |      |     | 1.4   | 11.6  | 22.3  | 57    | <0.1  | 16.6  | 7.8   | 370   | 2.49  | 6.2   | 6.7   | 5.8   | 6.1   | 20    | 0.1   | 0.4   | 0.6   | 44    | 0.22 | 0.032 |
| ECH 85546  | Soil   |         |      |     | 0.7   | 20.3  | 9.6   | 66    | <0.1  | 20.5  | 9.3   | 342   | 2.32  | 6.1   | 2.3   | 2.0   | 3.0   | 14    | 0.3   | 0.4   | 0.5   | 52    | 0.21 | 0.069 |
| ECH 85536  | Soil   |         |      |     | 0.6   | 23.9  | 11.6  | 76    | <0.1  | 20.3  | 9.5   | 290   | 2.35  | 4.1   | 6.3   | 3.3   | 5.5   | 18    | 0.3   | 0.4   | 0.3   | 60    | 0.26 | 0.086 |
| ECH 85543  | Soil   |         |      |     | 0.7   | 27.9  | 18.9  | 72    | <0.1  | 22.9  | 10.4  | 375   | 2.65  | 7.3   | 25.8  | 4.3   | 4.1   | 18    | 0.2   | 0.5   | 0.5   | 54    | 0.28 | 0.095 |
| ECH 85541  | Soil   |         |      |     | 0.5   | 30.7  | 14.9  | 76    | <0.1  | 27.1  | 10.7  | 368   | 2.46  | 5.6   | 6.9   | 2.6   | 5.4   | 27    | 0.3   | 0.6   | 0.3   | 63    | 0.36 | 0.084 |
| ECH 111981 | Soil   |         |      |     | 1.2   | 21.6  | 17.8  | 62    | <0.1  | 22.1  | 9.9   | 487   | 3.46  | 10.7  | 4.4   | 2.4   | 2.6   | 13    | 0.2   | 0.6   | 0.8   | 77    | 0.16 | 0.076 |
| ECH 111979 | Soil   |         |      |     | 0.8   | 19.7  | 8.9   | 60    | <0.1  | 20.6  | 8.9   | 451   | 2.40  | 5.9   | 2.4   | 3.4   | 2.5   | 13    | 0.1   | 0.4   | 0.9   | 54    | 0.17 | 0.056 |
| ECH 111546 | Soil   |         |      |     | 1.0   | 11.6  | 10.1  | 55    | <0.1  | 16.4  | 6.6   | 318   | 2.57  | 6.8   | 6.8   | 2.7   | 3.4   | 15    | 0.1   | 0.4   | 0.4   | 53    | 0.21 | 0.051 |
| ECH 111582 | Soil   |         |      |     | 0.5   | 8.5   | 16.6  | 53    | <0.1  | 19.2  | 6.7   | 230   | 1.76  | 2.4   | 3.9   | 1.5   | 4.2   | 13    | <0.1  | 0.4   | 0.4   | 41    | 0.22 | 0.065 |
| ECH 85620  | Soil   |         |      |     | 0.6   | 16.7  | 9.0   | 58    | <0.1  | 18.9  | 9.7   | 501   | 2.34  | 5.5   | 4.3   | 2.2   | 5.0   | 16    | 0.2   | 0.4   | 0.3   | 49    | 0.26 | 0.081 |
| ECH 85625  | Soil   |         |      |     | 0.7   | 14.1  | 18.4  | 63    | <0.1  | 18.9  | 9.5   | 649   | 2.56  | 6.3   | 7.5   | 3.6   | 5.5   | 17    | 0.1   | 0.3   | 0.5   | 52    | 0.27 | 0.053 |
| ECH 105709 | Soil   |         |      |     | 0.7   | 15.7  | 13.2  | 51    | <0.1  | 15.8  | 7.4   | 351   | 2.40  | 5.7   | 3.8   | 4.4   | 3.4   | 10    | 0.1   | 0.6   | 0.4   | 49    | 0.13 | 0.044 |
| ECH 85623  | Soil   |         |      |     | 1.0   | 19.0  | 12.7  | 63    | <0.1  | 20.2  | 9.4   | 459   | 2.90  | 8.6   | 3.3   | 1.7   | 4.2   | 17    | 0.2   | 0.5   | 0.4   | 67    | 0.24 | 0.067 |
| ECH 85588  | Soil   |         |      |     | 0.7   | 13.7  | 32.2  | 64    | <0.1  | 18.0  | 6.6   | 410   | 1.92  | 4.2   | 5.6   | 1.5   | 2.5   | 14    | 0.2   | 0.3   | 0.5   | 37    | 0.20 | 0.076 |
| ECH 105707 | Soil   |         |      |     | 0.6   | 16.7  | 10.9  | 60    | <0.1  | 17.8  | 7.8   | 442   | 2.17  | 4.8   | 4.3   | 3.1   | 5.3   | 14    | 0.2   | 0.5   | 0.7   | 46    | 0.25 | 0.069 |
| ECH 85621  | Soil   |         |      |     | 0.4   | 12.7  | 6.5   | 49    | <0.1  | 14.0  | 6.4   | 277   | 1.69  | 3.5   | 4.4   | 2.0   | 3.8   | 16    | 0.1   | 0.3   | 0.2   | 39    | 0.27 | 0.072 |
| ECH 111585 | Soil   |         |      |     | 0.2   | 14.0  | 16.2  | 63    | <0.1  | 12.3  | 6.0   | 275   | 2.24  | 3.5   | 3.4   | 2.6   | 6.1   | 16    | <0.1  | 0.3   | 0.6   | 36    | 0.27 | 0.064 |
| ECH 85629  | Soil   |         |      |     | 0.4   | 12.7  | 13.0  | 73    | 0.1   | 22.5  | 7.6   | 443   | 2.27  | 4.0   | 12.7  | 1.1   | 1.1   | 28    | 0.2   | 0.3   | 0.3   | 48    | 0.44 | 0.073 |
| ECH 85624  | Soil   |         |      |     | 0.6   | 13.6  | 10.8  | 50    | <0.1  | 19.1  | 8.1   | 332   | 2.73  | 6.5   | 1.3   | 3.0   | 3.8   | 14    | 0.2   | 0.4   | 0.4   | 65    | 0.19 | 0.053 |



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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85632  | Soil                             | 13    | 30    | 0.47  | 128   | 0.068 | 2     | 1.62  | 0.011 | 0.10  | 0.1   | 0.02  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111978 | Soil                             | 12    | 25    | 0.47  | 114   | 0.105 | <1    | 1.66  | 0.012 | 0.13  | 0.2   | 0.02  | 3.0   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111982 | Soil                             | 10    | 28    | 0.46  | 88    | 0.067 | 2     | 1.73  | 0.008 | 0.09  | 0.2   | 0.04  | 2.6   | 0.2   | <0.05 | 6     | 0.8   | <0.2  |
| ECH 111980 | Soil                             | 11    | 30    | 0.53  | 110   | 0.090 | 2     | 2.06  | 0.010 | 0.07  | 0.2   | 0.05  | 3.2   | 0.2   | <0.05 | 6     | 0.5   | <0.2  |
| ECH 111963 | Soil                             | 14    | 25    | 0.37  | 114   | 0.074 | <1    | 1.60  | 0.011 | 0.08  | <0.1  | 0.03  | 2.8   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111976 | Soil                             | 13    | 26    | 0.46  | 109   | 0.088 | 1     | 1.92  | 0.011 | 0.08  | 0.1   | 0.03  | 2.8   | 0.4   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85633  | Soil                             | 14    | 29    | 0.51  | 136   | 0.077 | 1     | 1.76  | 0.012 | 0.14  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85544  | Soil                             | 18    | 34    | 0.60  | 155   | 0.099 | 2     | 1.96  | 0.016 | 0.07  | 0.2   | 0.04  | 4.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85537  | Soil                             | 13    | 27    | 0.52  | 106   | 0.091 | 1     | 1.60  | 0.013 | 0.08  | 0.1   | 0.03  | 2.8   | 0.2   | <0.05 | 5     | 0.5   | <0.2  |
| ECH 85540  | Soil                             | 12    | 23    | 0.40  | 100   | 0.083 | 1     | 1.63  | 0.010 | 0.10  | 0.1   | 0.03  | 2.3   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85538  | Soil                             | 12    | 42    | 0.49  | 199   | 0.113 | <1    | 2.31  | 0.011 | 0.14  | 0.2   | 0.04  | 3.0   | 0.2   | <0.05 | 9     | 0.6   | <0.2  |
| ECH 85634  | Soil                             | 14    | 24    | 0.43  | 113   | 0.056 | <1    | 1.57  | 0.010 | 0.12  | 0.2   | 0.05  | 2.7   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85546  | Soil                             | 10    | 25    | 0.45  | 77    | 0.077 | <1    | 1.75  | 0.013 | 0.06  | 0.1   | 0.05  | 2.4   | 0.1   | <0.05 | 5     | 0.8   | <0.2  |
| ECH 85536  | Soil                             | 18    | 31    | 0.52  | 165   | 0.115 | <1    | 1.83  | 0.013 | 0.11  | <0.1  | 0.26  | 4.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85543  | Soil                             | 16    | 26    | 0.49  | 108   | 0.066 | 1     | 1.81  | 0.015 | 0.07  | 0.2   | 0.04  | 3.3   | 0.2   | <0.05 | 6     | 0.8   | <0.2  |
| ECH 85541  | Soil                             | 18    | 34    | 0.58  | 194   | 0.103 | 2     | 1.82  | 0.020 | 0.08  | 0.1   | 0.03  | 5.2   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111981 | Soil                             | 12    | 35    | 0.50  | 112   | 0.063 | 1     | 2.40  | 0.009 | 0.08  | 0.2   | 0.06  | 3.3   | 0.2   | 0.05  | 8     | 1.0   | 0.2   |
| ECH 111979 | Soil                             | 11    | 25    | 0.46  | 103   | 0.087 | 2     | 1.83  | 0.012 | 0.08  | 0.2   | 0.04  | 2.7   | 0.2   | 0.06  | 5     | <0.5  | <0.2  |
| ECH 111546 | Soil                             | 11    | 27    | 0.47  | 144   | 0.073 | <1    | 1.70  | 0.008 | 0.13  | 0.2   | 0.02  | 2.9   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111582 | Soil                             | 11    | 39    | 0.58  | 90    | 0.064 | <1    | 1.48  | 0.008 | 0.12  | 0.1   | 0.03  | 2.5   | 0.3   | <0.05 | 4     | <0.5  | 0.3   |
| ECH 85620  | Soil                             | 14    | 27    | 0.52  | 131   | 0.086 | <1    | 1.71  | 0.011 | 0.14  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85625  | Soil                             | 14    | 30    | 0.54  | 163   | 0.067 | <1    | 1.82  | 0.009 | 0.14  | 0.2   | 0.04  | 3.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 105709 | Soil                             | 14    | 25    | 0.49  | 78    | 0.047 | <1    | 1.66  | 0.007 | 0.09  | 0.1   | 0.03  | 2.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85623  | Soil                             | 13    | 31    | 0.57  | 142   | 0.105 | <1    | 1.85  | 0.009 | 0.13  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 8     | 0.6   | 0.2   |
| ECH 85588  | Soil                             | 10    | 21    | 0.28  | 80    | 0.031 | <1    | 1.14  | 0.010 | 0.07  | 0.1   | 0.04  | 1.7   | <0.1  | <0.05 | 3     | <0.5  | <0.2  |
| ECH 105707 | Soil                             | 14    | 23    | 0.43  | 93    | 0.072 | <1    | 1.37  | 0.010 | 0.12  | 0.2   | 0.02  | 2.8   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85621  | Soil                             | 12    | 20    | 0.41  | 107   | 0.075 | <1    | 1.26  | 0.009 | 0.11  | <0.1  | 0.01  | 2.4   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 111585 | Soil                             | 15    | 20    | 0.53  | 128   | 0.039 | <1    | 2.04  | 0.006 | 0.25  | <0.1  | 0.04  | 4.1   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 85629  | Soil                             | 13    | 37    | 0.59  | 190   | 0.031 | <1    | 1.74  | 0.010 | 0.07  | 0.6   | 0.03  | 2.6   | 0.2   | 0.06  | 6     | <0.5  | <0.2  |
| ECH 85624  | Soil                             | 9     | 28    | 0.50  | 85    | 0.107 | <1    | 1.82  | 0.014 | 0.09  | 0.2   | 0.02  | 2.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |



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ECH

Report Date:

September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca   | P     |
|            |        |         |      |     | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %    | %     |
|            |        |         |      |     | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2    | 0.01  |
| ECH 85615  | Soil   |         |      |     | 0.6   | 14.4  | 8.9   | 62    | <0.1  | 17.5  | 8.2   | 370   | 2.41  | 6.1   | 3.8   | 2.6   | 5.9   | 17    | 0.1   | 0.3   | 1.3   | 54    | 0.26 | 0.074 |
| ECH 85555  | Soil   |         |      |     | 0.7   | 25.8  | 11.3  | 68    | <0.1  | 22.1  | 8.9   | 374   | 2.39  | 5.8   | 7.9   | 1.5   | 3.7   | 18    | 0.2   | 0.5   | 0.6   | 56    | 0.26 | 0.092 |
| ECH 85618  | Soil   |         |      |     | 0.6   | 14.0  | 8.2   | 57    | <0.1  | 17.1  | 9.3   | 485   | 2.47  | 4.9   | 3.7   | 4.3   | 4.7   | 15    | 0.1   | 0.3   | 0.7   | 50    | 0.24 | 0.074 |
| ECH 85610  | Soil   |         |      |     | 0.7   | 19.5  | 13.0  | 58    | <0.1  | 17.6  | 6.6   | 159   | 2.20  | 7.1   | 4.9   | 3.4   | 2.1   | 14    | 0.2   | 0.5   | 0.4   | 53    | 0.21 | 0.088 |
| ECH 85612  | Soil   |         |      |     | 0.5   | 23.1  | 12.4  | 65    | <0.1  | 21.1  | 9.6   | 686   | 2.20  | 5.8   | 2.1   | 2.0   | 3.8   | 13    | <0.1  | 0.5   | 0.3   | 55    | 0.22 | 0.075 |
| ECH 85559  | Soil   |         |      |     | 0.5   | 21.1  | 7.1   | 60    | <0.1  | 19.9  | 8.5   | 286   | 2.16  | 4.3   | 4.0   | 2.4   | 4.5   | 18    | 0.2   | 0.4   | 0.4   | 51    | 0.30 | 0.084 |
| ECH 85614  | Soil   |         |      |     | 1.0   | 12.9  | 8.6   | 54    | <0.1  | 14.4  | 11.9  | 1351  | 2.61  | 6.0   | 5.2   | 1.8   | 1.6   | 17    | 0.2   | 0.3   | 0.7   | 54    | 0.19 | 0.072 |
| ECH 85562  | Soil   |         |      |     | 0.8   | 20.7  | 11.6  | 62    | <0.1  | 21.8  | 8.8   | 340   | 2.54  | 6.4   | 2.7   | 4.2   | 4.2   | 14    | 0.2   | 0.4   | 0.3   | 60    | 0.20 | 0.066 |
| ECH 85565  | Soil   |         |      |     | 0.7   | 19.5  | 18.6  | 65    | <0.1  | 20.9  | 8.9   | 497   | 2.61  | 6.0   | 6.2   | 2.8   | 4.6   | 12    | 0.2   | 0.4   | 0.6   | 54    | 0.18 | 0.067 |
| ECH 85561  | Soil   |         |      |     | 0.6   | 24.0  | 22.0  | 54    | 0.1   | 27.4  | 9.3   | 249   | 2.24  | 4.4   | 12.1  | 1.7   | 3.6   | 16    | 0.1   | 0.5   | 0.5   | 66    | 0.18 | 0.066 |
| ECH 85592  | Soil   |         |      |     | 0.8   | 21.8  | 14.6  | 67    | <0.1  | 19.8  | 9.7   | 513   | 3.03  | 6.7   | 4.9   | 3.3   | 6.9   | 12    | 0.1   | 0.4   | 0.6   | 64    | 0.16 | 0.062 |
| ECH 85564  | Soil   |         |      |     | 1.2   | 16.9  | 14.6  | 58    | <0.1  | 21.1  | 8.8   | 416   | 2.55  | 6.2   | 2.6   | 3.8   | 3.8   | 19    | 0.2   | 0.4   | 0.5   | 58    | 0.25 | 0.072 |
| ECH 85571  | Soil   |         |      |     | 0.9   | 22.8  | 9.6   | 67    | <0.1  | 22.4  | 9.6   | 482   | 2.88  | 6.3   | 6.0   | 2.2   | 4.5   | 13    | 0.2   | 0.4   | 0.3   | 56    | 0.23 | 0.099 |
| ECH 85693  | Soil   |         |      |     | 0.6   | 12.7  | 24.0  | 52    | <0.1  | 15.0  | 6.4   | 866   | 1.88  | 3.6   | 7.6   | 2.4   | 4.3   | 23    | 0.2   | 0.4   | 0.2   | 39    | 0.25 | 0.052 |
| ECH 128501 | Soil   |         |      |     | 0.7   | 23.4  | 7.3   | 69    | <0.1  | 23.5  | 11.0  | 558   | 2.81  | 5.8   | 3.9   | 1.2   | 5.7   | 15    | 0.3   | 0.3   | 0.2   | 56    | 0.30 | 0.106 |
| ECH 85568  | Soil   |         |      |     | 0.5   | 21.7  | 6.6   | 73    | <0.1  | 26.9  | 11.8  | 351   | 2.66  | 3.7   | 3.2   | 1.6   | 4.2   | 22    | 0.2   | 0.2   | 0.5   | 79    | 0.35 | 0.083 |
| ECH 128503 | Soil   |         |      |     | 1.2   | 25.8  | 12.0  | 75    | <0.1  | 26.3  | 11.4  | 613   | 3.43  | 7.3   | 8.6   | 4.0   | 3.9   | 13    | 0.2   | 0.5   | 1.4   | 72    | 0.18 | 0.080 |
| ECH 128502 | Soil   |         |      |     | 1.2   | 26.4  | 10.7  | 76    | <0.1  | 24.1  | 11.5  | 693   | 3.16  | 7.3   | 5.8   | 1.5   | 3.2   | 15    | 0.2   | 0.5   | 0.6   | 67    | 0.21 | 0.100 |
| ECH 85569  | Soil   |         |      |     | 0.9   | 23.8  | 7.2   | 77    | <0.1  | 22.1  | 9.0   | 500   | 2.67  | 4.7   | 7.9   | 3.3   | 6.2   | 16    | 0.3   | 0.4   | 0.6   | 54    | 0.29 | 0.111 |
| ECH 85566  | Soil   |         |      |     | 0.7   | 17.4  | 7.0   | 65    | <0.1  | 19.1  | 8.1   | 447   | 2.38  | 3.8   | 4.9   | 2.5   | 5.6   | 22    | 0.2   | 0.3   | 0.7   | 50    | 0.35 | 0.092 |
| ECH 85677  | Soil   |         |      |     | 0.6   | 15.6  | 10.5  | 56    | <0.1  | 16.8  | 7.1   | 330   | 2.06  | 5.0   | 1.6   | 2.8   | 3.0   | 12    | 0.3   | 0.4   | 0.2   | 48    | 0.18 | 0.067 |
| ECH 85678  | Soil   |         |      |     | 0.7   | 26.5  | 10.3  | 68    | <0.1  | 26.1  | 10.3  | 436   | 2.53  | 6.6   | 2.0   | 3.5   | 3.9   | 18    | 0.3   | 0.4   | 0.3   | 63    | 0.25 | 0.070 |
| ECH 85567  | Soil   |         |      |     | 0.8   | 25.7  | 7.9   | 79    | <0.1  | 28.0  | 10.8  | 449   | 2.83  | 5.7   | 6.5   | 1.8   | 4.4   | 28    | 0.3   | 0.4   | 0.4   | 70    | 0.44 | 0.093 |
| ECH 111865 | Soil   |         |      |     | 1.1   | 25.2  | 10.4  | 67    | 0.2   | 27.8  | 12.9  | 483   | 3.27  | 8.6   | 2.9   | 5.1   | 4.9   | 17    | 0.2   | 0.5   | 0.2   | 74    | 0.22 | 0.063 |
| ECH 85590  | Soil   |         |      |     | 0.7   | 17.5  | 22.2  | 78    | <0.1  | 19.8  | 9.3   | 515   | 2.87  | 4.3   | 2.6   | 5.0   | 3.4   | 11    | 0.2   | 0.3   | 0.4   | 58    | 0.15 | 0.071 |
| ECH 85596  | Soil   |         |      |     | 0.5   | 19.9  | 19.5  | 61    | <0.1  | 19.9  | 8.3   | 679   | 2.12  | 3.5   | 4.5   | 4.6   | 4.5   | 23    | 0.3   | 0.3   | 0.6   | 51    | 0.35 | 0.081 |
| ECH 85598  | Soil   |         |      |     | 0.9   | 21.9  | 17.8  | 77    | <0.1  | 21.0  | 8.9   | 433   | 2.92  | 5.3   | 3.6   | 5.0   | 1.1   | 15    | 0.3   | 0.5   | 1.3   | 70    | 0.16 | 0.088 |
| ECH 85593  | Soil   |         |      |     | 0.7   | 21.2  | 15.4  | 67    | <0.1  | 25.0  | 10.7  | 535   | 2.77  | 6.7   | 2.8   | 3.3   | 6.4   | 13    | 0.2   | 0.4   | 0.9   | 66    | 0.18 | 0.063 |
| ECH 85595  | Soil   |         |      |     | 0.5   | 14.9  | 13.3  | 59    | <0.1  | 19.0  | 7.4   | 191   | 2.41  | 4.1   | 3.6   | 4.5   | 4.6   | 16    | 0.1   | 0.4   | 0.5   | 52    | 0.25 | 0.068 |
| ECH 85599  | Soil   |         |      |     | 0.7   | 25.4  | 29.6  | 86    | <0.1  | 26.2  | 12.1  | 865   | 3.03  | 6.5   | 10.5  | 1.2   | 5.2   | 19    | 0.3   | 0.5   | 0.5   | 66    | 0.23 | 0.086 |



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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Ti    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85615  | Soil                             | 15    | 27    | 0.49  | 126   | 0.091 | <1    | 1.65  | 0.011 | 0.12  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85555  | Soil                             | 14    | 28    | 0.49  | 136   | 0.081 | <1    | 1.72  | 0.012 | 0.09  | 0.2   | 0.03  | 3.9   | 0.2   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85618  | Soil                             | 14    | 28    | 0.54  | 131   | 0.102 | <1    | 1.73  | 0.010 | 0.16  | 0.2   | 0.02  | 3.2   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85610  | Soil                             | 11    | 29    | 0.47  | 111   | 0.054 | <1    | 2.12  | 0.009 | 0.06  | <0.1  | 0.05  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | 0.2   |
| ECH 85612  | Soil                             | 13    | 33    | 0.54  | 121   | 0.080 | <1    | 2.43  | 0.009 | 0.06  | 0.2   | 0.04  | 3.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85559  | Soil                             | 14    | 30    | 0.54  | 107   | 0.103 | <1    | 1.43  | 0.012 | 0.12  | 0.2   | 0.01  | 4.0   | 0.2   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85614  | Soil                             | 11    | 26    | 0.36  | 141   | 0.054 | <1    | 1.47  | 0.011 | 0.08  | 0.1   | 0.02  | 2.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85562  | Soil                             | 14    | 30    | 0.52  | 123   | 0.089 | <1    | 1.98  | 0.010 | 0.09  | 0.1   | 0.04  | 3.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85565  | Soil                             | 18    | 26    | 0.47  | 144   | 0.051 | <1    | 1.85  | 0.011 | 0.09  | 0.2   | 0.03  | 3.1   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85561  | Soil                             | 21    | 44    | 0.66  | 185   | 0.070 | <1    | 2.46  | 0.012 | 0.09  | 0.1   | 0.08  | 4.9   | 0.3   | 0.07  | 8     | 0.7   | 0.2   |
| ECH 85592  | Soil                             | 18    | 26    | 0.57  | 113   | 0.093 | <1    | 2.16  | 0.010 | 0.13  | 0.1   | 0.03  | 3.7   | 0.2   | <0.05 | 7     | <0.5  | 0.3   |
| ECH 85564  | Soil                             | 13    | 29    | 0.41  | 126   | 0.061 | <1    | 1.55  | 0.010 | 0.08  | 0.2   | 0.03  | 2.5   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85571  | Soil                             | 15    | 28    | 0.55  | 125   | 0.106 | <1    | 2.06  | 0.011 | 0.23  | 0.2   | 0.04  | 3.5   | 0.3   | <0.05 | 7     | 0.7   | 0.3   |
| ECH 85693  | Soil                             | 13    | 21    | 0.27  | 115   | 0.049 | <1    | 1.22  | 0.010 | 0.08  | 0.1   | 0.03  | 2.9   | <0.1  | <0.05 | 3     | 0.6   | <0.2  |
| ECH 128501 | Soil                             | 15    | 29    | 0.64  | 146   | 0.119 | <1    | 1.91  | 0.016 | 0.26  | 0.2   | 0.02  | 3.4   | 0.3   | <0.05 | 6     | 0.7   | 0.2   |
| ECH 85568  | Soil                             | 16    | 62    | 0.81  | 201   | 0.156 | <1    | 2.04  | 0.022 | 0.29  | 0.5   | 0.03  | 6.6   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 128503 | Soil                             | 15    | 39    | 0.62  | 133   | 0.105 | <1    | 2.33  | 0.009 | 0.16  | 1.9   | 0.04  | 4.3   | 0.3   | <0.05 | 8     | 0.7   | <0.2  |
| ECH 128502 | Soil                             | 14    | 36    | 0.60  | 149   | 0.107 | 1     | 2.35  | 0.014 | 0.21  | 0.3   | 0.06  | 3.9   | 0.3   | 0.07  | 8     | 0.6   | 0.3   |
| ECH 85569  | Soil                             | 19    | 28    | 0.49  | 139   | 0.134 | <1    | 1.90  | 0.018 | 0.25  | 0.5   | 0.03  | 3.5   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85566  | Soil                             | 17    | 26    | 0.47  | 104   | 0.125 | <1    | 1.48  | 0.014 | 0.18  | 0.1   | 0.01  | 3.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85677  | Soil                             | 11    | 23    | 0.34  | 66    | 0.068 | <1    | 1.56  | 0.009 | 0.06  | 0.1   | 0.03  | 2.0   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85678  | Soil                             | 11    | 28    | 0.51  | 121   | 0.105 | 1     | 1.95  | 0.015 | 0.07  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85567  | Soil                             | 14    | 50    | 0.67  | 157   | 0.139 | 1     | 1.82  | 0.025 | 0.20  | 0.2   | 0.02  | 5.8   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111865 | Soil                             | 15    | 39    | 0.66  | 148   | 0.116 | 1     | 2.42  | 0.013 | 0.15  | 0.1   | 0.07  | 4.7   | 0.2   | <0.05 | 7     | <0.5  | 0.2   |
| ECH 85590  | Soil                             | 12    | 26    | 0.56  | 88    | 0.078 | 1     | 1.96  | 0.010 | 0.13  | <0.1  | 0.05  | 2.9   | 0.2   | 0.12  | 6     | <0.5  | <0.2  |
| ECH 85596  | Soil                             | 12    | 27    | 0.39  | 124   | 0.084 | <1    | 1.18  | 0.018 | 0.07  | 0.1   | 0.03  | 3.6   | <0.1  | <0.05 | 4     | <0.5  | 0.2   |
| ECH 85598  | Soil                             | 11    | 30    | 0.37  | 143   | 0.058 | <1    | 1.64  | 0.011 | 0.06  | 0.1   | 0.04  | 2.1   | 0.2   | 0.10  | 7     | <0.5  | <0.2  |
| ECH 85593  | Soil                             | 16    | 30    | 0.55  | 124   | 0.098 | 1     | 1.97  | 0.012 | 0.10  | 0.2   | 0.03  | 3.3   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85595  | Soil                             | 14    | 33    | 0.48  | 106   | 0.100 | 1     | 1.83  | 0.012 | 0.11  | 0.1   | 0.04  | 3.3   | 0.2   | 0.05  | 6     | 0.8   | <0.2  |
| ECH 85599  | Soil                             | 18    | 35    | 0.48  | 169   | 0.098 | 1     | 2.31  | 0.014 | 0.08  | 0.2   | 0.06  | 4.0   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15           | 1DX15            | 1DX15           | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15         | 1DX15           | 1DX15           |
|------------|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|
|            |                                  | Mo<br>ppm<br>0.1 | Cu<br>ppm<br>0.1 | Pb<br>ppm<br>0.1 | Zn<br>ppm<br>1 | Ag<br>ppm<br>0.1 | Ni<br>ppm<br>0.1 | Co<br>ppm<br>0.1 | Mn<br>ppm<br>1 | Fe<br>%<br>0.01 | As<br>ppm<br>0.5 | U<br>ppm<br>0.1 | Au<br>ppb<br>0.5 | Th<br>ppm<br>0.1 | Sr<br>ppm<br>1 | Cd<br>ppm<br>0.1 | Sb<br>ppm<br>0.1 | Bi<br>ppm<br>0.1 | V<br>ppm<br>2 | Ca<br>%<br>0.01 | P<br>%<br>0.001 |
| ECH 85594  | Soil                             | 0.8              | 19.0             | 12.2             | 64             | <0.1             | 25.5             | 10.2             | 412            | 2.66            | 7.2              | 1.3             | 4.6              | 2.3              | 12             | 0.2              | 0.5              | 0.4              | 60            | 0.15            | 0.053           |
| ECH 85597  | Soil                             | 0.5              | 20.4             | 37.7             | 77             | <0.1             | 20.2             | 9.0              | 762            | 2.41            | 4.0              | 13.6            | 1.7              | 3.7              | 17             | 0.2              | 0.4              | 1.6              | 55            | 0.21            | 0.068           |
| ECH 85545  | Soil                             | 0.8              | 30.3             | 13.4             | 77             | <0.1             | 29.8             | 12.5             | 632            | 2.97            | 7.0              | 8.2             | 4.0              | 4.6              | 22             | 0.3              | 0.5              | 0.5              | 71            | 0.36            | 0.103           |
| ECH 85591  | Soil                             | 0.7              | 22.8             | 15.4             | 74             | <0.1             | 23.4             | 11.7             | 560            | 3.52            | 6.5              | 5.7             | 3.0              | 8.6              | 15             | <0.1             | 0.4              | 0.5              | 70            | 0.23            | 0.073           |
| ECH 111977 | Soil                             | 1.0              | 19.6             | 10.4             | 67             | <0.1             | 25.3             | 10.7             | 450            | 2.79            | 6.8              | 1.0             | 4.6              | 1.5              | 15             | 0.3              | 0.5              | 0.2              | 68            | 0.18            | 0.062           |
| ECH 85542  | Soil                             | 0.5              | 28.1             | 21.0             | 78             | 0.1              | 28.1             | 10.4             | 259            | 2.48            | 4.6              | 13.6            | 2.9              | 6.3              | 27             | 0.4              | 0.5              | 0.5              | 68            | 0.37            | 0.067           |
| ECH 111599 | Soil                             | 0.6              | 14.6             | 14.3             | 71             | <0.1             | 20.5             | 9.2              | 450            | 3.05            | 6.0              | 9.5             | <0.5             | 5.9              | 17             | 0.2              | 0.4              | 0.6              | 59            | 0.30            | 0.084           |
| ECH 105713 | Soil                             | 0.7              | 24.1             | 12.4             | 55             | <0.1             | 18.9             | 10.6             | 440            | 3.21            | 5.4              | 2.8             | 0.8              | 8.1              | 19             | 0.2              | 0.5              | 0.4              | 62            | 0.32            | 0.078           |
| ECH 85589  | Soil                             | 0.9              | 15.9             | 23.4             | 59             | <0.1             | 17.6             | 7.9              | 416            | 2.62            | 5.9              | 2.2             | 1.3              | 2.8              | 13             | 0.2              | 0.4              | 0.4              | 63            | 0.16            | 0.066           |
| ECH 111600 | Soil                             | 0.6              | 14.0             | 11.5             | 69             | <0.1             | 22.0             | 9.0              | 375            | 2.94            | 5.2              | 8.5             | 2.3              | 6.2              | 15             | 0.1              | 0.3              | 0.4              | 59            | 0.26            | 0.079           |
| ECH 85619  | Soil                             | 0.5              | 16.7             | 14.4             | 62             | <0.1             | 18.6             | 8.8              | 219            | 2.11            | 3.9              | 4.3             | 2.7              | 3.5              | 18             | 0.1              | 0.4              | 0.4              | 62            | 0.25            | 0.066           |
| ECH 105714 | Soil                             | 0.8              | 20.0             | 14.3             | 58             | <0.1             | 22.3             | 10.0             | 423            | 3.09            | 8.0              | 2.9             | 1.7              | 7.0              | 21             | <0.1             | 0.5              | 0.3              | 59            | 0.29            | 0.060           |
| ECH 85613  | Soil                             | 0.4              | 12.3             | 11.5             | 48             | <0.1             | 15.2             | 5.6              | 161            | 1.96            | 3.7              | 4.1             | 3.4              | 2.5              | 16             | 0.2              | 0.4              | 0.8              | 51            | 0.22            | 0.061           |
| ECH 85549  | Soil                             | 0.6              | 20.7             | 20.5             | 89             | <0.1             | 22.6             | 9.3              | 666            | 2.75            | 5.6              | 7.0             | 1.0              | 2.7              | 14             | 0.3              | 0.4              | 0.6              | 51            | 0.21            | 0.102           |
| ECH 85560  | Soil                             | 1.0              | 18.4             | 15.9             | 60             | <0.1             | 22.0             | 9.3              | 494            | 2.95            | 6.9              | 3.9             | 2.4              | 2.2              | 13             | 0.2              | 0.4              | 0.6              | 62            | 0.14            | 0.074           |
| ECH 85551  | Soil                             | 0.7              | 15.5             | 18.9             | 70             | <0.1             | 14.5             | 8.3              | 622            | 2.53            | 4.0              | 8.9             | 1.0              | 4.9              | 13             | 0.1              | 0.3              | 0.8              | 43            | 0.20            | 0.091           |
| ECH 111545 | Soil                             | 0.8              | 14.2             | 13.1             | 53             | 0.1              | 15.8             | 7.2              | 345            | 2.32            | 6.1              | 11.7            | 2.1              | 1.4              | 19             | 0.2              | 0.4              | 0.5              | 47            | 0.24            | 0.071           |
| ECH 85617  | Soil                             | 0.9              | 21.7             | 14.9             | 71             | 0.1              | 26.4             | 12.0             | 327            | 3.00            | 7.0              | 8.9             | 3.3              | 3.7              | 22             | 0.1              | 0.4              | 0.7              | 76            | 0.23            | 0.080           |
| ECH 85609  | Soil                             | 0.6              | 23.9             | 22.2             | 68             | 0.1              | 22.2             | 8.8              | 359            | 2.75            | 6.2              | 4.5             | 2.1              | 4.4              | 25             | 0.2              | 0.5              | 0.4              | 60            | 0.34            | 0.079           |
| ECH 85550  | Soil                             | 1.1              | 13.1             | 19.3             | 70             | <0.1             | 19.6             | 6.8              | 506            | 2.06            | 3.9              | 5.9             | 0.9              | 2.6              | 12             | 0.2              | 0.2              | 1.2              | 38            | 0.17            | 0.076           |
| ECH 85616  | Soil                             | 0.6              | 20.1             | 11.8             | 69             | 0.1              | 22.0             | 10.6             | 319            | 3.01            | 6.0              | 4.7             | 5.0              | 6.0              | 18             | 0.2              | 0.4              | 0.4              | 62            | 0.26            | 0.086           |
| ECH 85547  | Soil                             | 0.7              | 31.7             | 11.8             | 85             | <0.1             | 29.2             | 13.1             | 574            | 3.17            | 6.0              | 5.4             | 3.1              | 5.6              | 33             | 0.3              | 0.4              | 0.5              | 76            | 0.48            | 0.110           |
| ECH 85558  | Soil                             | 1.1              | 29.4             | 20.1             | 88             | 0.1              | 29.6             | 12.8             | 826            | 3.23            | 9.7              | 14.5            | 2.7              | 4.0              | 18             | 0.4              | 0.6              | 0.9              | 67            | 0.23            | 0.096           |
| ECH 85548  | Soil                             | 0.6              | 24.2             | 11.7             | 78             | <0.1             | 22.6             | 11.4             | 500            | 2.79            | 5.1              | 2.6             | 2.7              | 5.1              | 21             | 0.2              | 0.3              | 0.6              | 63            | 0.35            | 0.099           |
| ECH 85611  | Soil                             | 0.6              | 15.3             | 13.8             | 56             | <0.1             | 17.9             | 7.6              | 217            | 2.85            | 6.8              | 5.0             | 2.8              | 1.5              | 15             | 0.1              | 0.4              | 0.3              | 58            | 0.20            | 0.088           |
| ECH 85552  | Soil                             | 0.8              | 21.3             | 13.8             | 71             | <0.1             | 21.7             | 9.8              | 499            | 2.66            | 7.2              | 6.5             | 2.9              | 4.7              | 16             | 0.2              | 0.4              | 0.3              | 57            | 0.22            | 0.083           |
| ECH 85557  | Soil                             | 0.7              | 25.7             | 10.4             | 70             | <0.1             | 23.5             | 10.8             | 488            | 2.51            | 6.3              | 6.5             | 3.1              | 4.1              | 20             | 0.3              | 0.4              | 0.5              | 58            | 0.26            | 0.091           |
| ECH 85554  | Soil                             | 0.6              | 25.5             | 11.5             | 74             | <0.1             | 25.4             | 9.7              | 400            | 2.63            | 6.7              | 5.0             | 3.0              | 4.8              | 19             | 0.2              | 0.4              | 1.4              | 60            | 0.31            | 0.096           |
| ECH 85553  | Soil                             | 0.6              | 13.8             | 25.5             | 56             | 0.1              | 16.1             | 5.7              | 217            | 2.28            | 5.1              | 18.7            | 2.7              | 1.6              | 17             | <0.1             | 0.3              | 0.8              | 46            | 0.21            | 0.075           |
| ECH 85556  | Soil                             | 0.8              | 23.1             | 8.4              | 70             | <0.1             | 24.4             | 9.6              | 440            | 2.39            | 6.1              | 3.3             | 9.0              | 3.6              | 18             | 0.3              | 0.4              | 0.7              | 57            | 0.29            | 0.091           |



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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85594  | Soil                             | 10    | 31    | 0.50  | 97    | 0.082 | 2     | 2.14  | 0.010 | 0.06  | 0.1   | 0.05  | 2.4   | 0.1   | 0.08  | 6     | 0.7   | <0.2  |
| ECH 85597  | Soil                             | 13    | 26    | 0.43  | 153   | 0.076 | 1     | 1.66  | 0.013 | 0.07  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85545  | Soil                             | 16    | 36    | 0.60  | 148   | 0.116 | 1     | 1.83  | 0.015 | 0.09  | 0.1   | 0.03  | 4.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85591  | Soil                             | 32    | 33    | 0.72  | 152   | 0.118 | <1    | 2.18  | 0.014 | 0.16  | 0.1   | 0.02  | 4.9   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111977 | Soil                             | 10    | 34    | 0.51  | 114   | 0.085 | 3     | 1.93  | 0.013 | 0.06  | 0.1   | 0.05  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85542  | Soil                             | 19    | 39    | 0.63  | 204   | 0.116 | 2     | 2.07  | 0.023 | 0.08  | 0.1   | 0.04  | 5.7   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111599 | Soil                             | 16    | 35    | 0.65  | 170   | 0.128 | 1     | 2.10  | 0.011 | 0.31  | 0.2   | 0.02  | 4.3   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 105713 | Soil                             | 20    | 32    | 0.60  | 174   | 0.143 | 2     | 1.74  | 0.013 | 0.27  | 0.2   | 0.01  | 4.3   | 0.4   | <0.05 | 7     | 0.6   | 0.3   |
| ECH 85589  | Soil                             | 11    | 25    | 0.42  | 95    | 0.087 | 1     | 1.52  | 0.013 | 0.12  | 0.1   | 0.03  | 2.7   | 0.2   | 0.06  | 7     | 0.7   | <0.2  |
| ECH 111600 | Soil                             | 15    | 42    | 0.71  | 157   | 0.145 | 2     | 2.18  | 0.013 | 0.34  | 0.2   | 0.02  | 4.1   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 85619  | Soil                             | 14    | 35    | 0.48  | 155   | 0.093 | 1     | 1.98  | 0.012 | 0.07  | 0.2   | 0.03  | 3.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 105714 | Soil                             | 16    | 34    | 0.58  | 163   | 0.108 | 2     | 2.10  | 0.014 | 0.14  | 0.2   | 0.02  | 4.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85613  | Soil                             | 12    | 28    | 0.43  | 112   | 0.084 | <1    | 1.70  | 0.011 | 0.07  | 0.1   | 0.03  | 3.1   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| ECH 85549  | Soil                             | 14    | 30    | 0.48  | 91    | 0.063 | 1     | 2.06  | 0.014 | 0.11  | <0.1  | 0.03  | 2.7   | 0.2   | 0.06  | 6     | <0.5  | <0.2  |
| ECH 85560  | Soil                             | 11    | 31    | 0.47  | 128   | 0.082 | 2     | 2.07  | 0.012 | 0.12  | 0.1   | 0.04  | 3.0   | 0.2   | 0.05  | 8     | <0.5  | <0.2  |
| ECH 85551  | Soil                             | 23    | 23    | 0.43  | 110   | 0.050 | <1    | 1.56  | 0.010 | 0.16  | 0.2   | 0.03  | 2.7   | 0.3   | <0.05 | 6     | 0.5   | <0.2  |
| ECH 111545 | Soil                             | 12    | 26    | 0.36  | 159   | 0.058 | 1     | 1.79  | 0.014 | 0.14  | 0.2   | 0.03  | 2.9   | 0.2   | <0.05 | 7     | 0.5   | <0.2  |
| ECH 85617  | Soil                             | 21    | 40    | 0.66  | 247   | 0.108 | <1    | 2.74  | 0.014 | 0.14  | 0.9   | 0.04  | 5.1   | 0.3   | <0.05 | 9     | 0.7   | <0.2  |
| ECH 85609  | Soil                             | 15    | 37    | 0.51  | 193   | 0.085 | <1    | 1.87  | 0.015 | 0.08  | 0.1   | 0.03  | 5.1   | 0.2   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 85550  | Soil                             | 12    | 34    | 0.35  | 89    | 0.040 | 1     | 1.23  | 0.011 | 0.11  | 0.1   | 0.03  | 2.2   | 0.2   | 0.05  | 5     | <0.5  | <0.2  |
| ECH 85616  | Soil                             | 20    | 36    | 0.65  | 149   | 0.120 | 1     | 2.30  | 0.017 | 0.18  | 0.2   | 0.03  | 4.5   | 0.3   | <0.05 | 7     | 0.6   | <0.2  |
| ECH 85547  | Soil                             | 19    | 41    | 0.82  | 167   | 0.152 | 1     | 2.02  | 0.028 | 0.16  | 0.1   | 0.02  | 6.0   | 0.2   | <0.05 | 7     | 0.7   | <0.2  |
| ECH 85558  | Soil                             | 15    | 36    | 0.57  | 211   | 0.091 | 1     | 2.37  | 0.015 | 0.12  | 0.1   | 0.04  | 4.1   | 0.3   | <0.05 | 7     | 0.6   | <0.2  |
| ECH 85548  | Soil                             | 14    | 31    | 0.74  | 114   | 0.121 | <1    | 2.02  | 0.017 | 0.12  | 0.2   | 0.02  | 3.3   | 0.3   | <0.05 | 7     | 0.7   | <0.2  |
| ECH 85611  | Soil                             | 12    | 34    | 0.50  | 115   | 0.061 | <1    | 2.24  | 0.012 | 0.05  | <0.1  | 0.03  | 2.8   | 0.2   | <0.05 | 7     | 0.7   | <0.2  |
| ECH 85552  | Soil                             | 15    | 29    | 0.57  | 99    | 0.081 | 1     | 1.79  | 0.013 | 0.11  | 0.2   | 0.03  | 3.4   | 0.2   | <0.05 | 6     | 0.8   | <0.2  |
| ECH 85557  | Soil                             | 13    | 27    | 0.50  | 128   | 0.098 | 1     | 1.81  | 0.015 | 0.09  | 0.1   | 0.02  | 3.0   | 0.2   | <0.05 | 6     | 0.6   | <0.2  |
| ECH 85554  | Soil                             | 16    | 30    | 0.53  | 169   | 0.098 | 1     | 1.86  | 0.015 | 0.11  | 0.2   | 0.03  | 3.9   | 0.2   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 85553  | Soil                             | 15    | 25    | 0.39  | 126   | 0.030 | 1     | 1.86  | 0.010 | 0.08  | <0.1  | 0.04  | 2.4   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| ECH 85556  | Soil                             | 11    | 26    | 0.47  | 105   | 0.089 | <1    | 1.48  | 0.014 | 0.09  | 0.1   | 0.02  | 2.6   | 0.2   | <0.05 | 5     | 0.6   | <0.2  |



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September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15           | 1DX15            | 1DX15           | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15         | 1DX15           | 1DX15           |
|------------|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|
|            |                                  | Mo<br>ppm<br>0.1 | Cu<br>ppm<br>0.1 | Pb<br>ppm<br>0.1 | Zn<br>ppm<br>1 | Ag<br>ppm<br>0.1 | Ni<br>ppm<br>0.1 | Co<br>ppm<br>0.1 | Mn<br>ppm<br>1 | Fe<br>%<br>0.01 | As<br>ppm<br>0.5 | U<br>ppm<br>0.1 | Au<br>ppb<br>0.5 | Th<br>ppm<br>0.1 | Sr<br>ppm<br>1 | Cd<br>ppm<br>0.1 | Sb<br>ppm<br>0.1 | Bi<br>ppm<br>0.1 | V<br>ppm<br>2 | Ca<br>%<br>0.01 | P<br>%<br>0.001 |
| ECH 85622  | Soil                             | 0.5              | 16.9             | 10.6             | 64             | <0.1             | 22.3             | 9.8              | 541            | 2.64            | 5.2              | 5.1             | 1.6              | 5.7              | 15             | 0.1              | 0.3              | 0.3              | 60            | 0.24            | 0.068           |
| ECH 85628  | Soil                             | 0.6              | 17.5             | 17.8             | 60             | <0.1             | 19.4             | 11.0             | 587            | 2.84            | 7.1              | 12.4            | 1.4              | 3.2              | 17             | 0.2              | 0.4              | 0.6              | 56            | 0.23            | 0.065           |
| ECH 85627  | Soil                             | 0.5              | 14.4             | 10.9             | 59             | <0.1             | 19.0             | 8.2              | 443            | 2.38            | 5.4              | 6.0             | 1.8              | 4.1              | 18             | 0.2              | 0.3              | 0.3              | 51            | 0.28            | 0.073           |
| ECH 111587 | Soil                             | 0.1              | 13.1             | 8.1              | 68             | <0.1             | 16.0             | 18.5             | 478            | 3.48            | 1.3              | 5.3             | <0.5             | 9.0              | 22             | <0.1             | 0.1              | 0.3              | 114           | 0.50            | 0.148           |
| ECH 111590 | Soil                             | 0.4              | 22.9             | 11.2             | 60             | <0.1             | 35.0             | 9.3              | 358            | 2.51            | 5.9              | 2.8             | 1.9              | 5.2              | 20             | 0.1              | 0.4              | 0.2              | 55            | 0.31            | 0.074           |
| ECH 111954 | Soil                             | 1.4              | 19.1             | 15.4             | 84             | 0.1              | 16.8             | 6.4              | 273            | 2.26            | 5.6              | 12.5            | 1.3              | 5.4              | 18             | 0.3              | 0.4              | 1.4              | 48            | 0.26            | 0.075           |
| ECH 85626  | Soil                             | 0.5              | 8.0              | 12.2             | 41             | <0.1             | 12.3             | 5.4              | 236            | 1.99            | 4.7              | 1.5             | 2.5              | 3.4              | 13             | 0.2              | 0.2              | 1.2              | 44            | 0.16            | 0.036           |
| ECH 111591 | Soil                             | 0.5              | 18.4             | 14.0             | 58             | <0.1             | 25.5             | 8.9              | 322            | 2.60            | 7.5              | 4.5             | 2.4              | 4.1              | 16             | <0.1             | 0.5              | 0.8              | 52            | 0.25            | 0.069           |
| ECH 111589 | Soil                             | 0.4              | 22.8             | 16.9             | 59             | <0.1             | 35.3             | 10.0             | 330            | 2.76            | 6.9              | 3.8             | 2.6              | 5.9              | 18             | <0.1             | 0.6              | 0.3              | 62            | 0.30            | 0.077           |
| ECH 111592 | Soil                             | 0.5              | 19.9             | 13.1             | 60             | <0.1             | 24.9             | 8.8              | 287            | 2.68            | 7.0              | 9.7             | 2.7              | 4.5              | 18             | <0.1             | 0.4              | 0.5              | 55            | 0.27            | 0.062           |
| ECH 111596 | Soil                             | 0.6              | 13.2             | 12.3             | 76             | <0.1             | 18.3             | 8.3              | 536            | 2.66            | 6.9              | 5.6             | 2.6              | 3.5              | 15             | 0.2              | 0.4              | 0.5              | 52            | 0.23            | 0.055           |
| ECH 111593 | Soil                             | 0.6              | 14.8             | 11.0             | 65             | <0.1             | 27.1             | 13.4             | 735            | 2.81            | 6.9              | 3.6             | 1.0              | 3.4              | 14             | 0.1              | 0.5              | 0.4              | 62            | 0.22            | 0.060           |
| ECH 111962 | Soil                             | 0.3              | 22.1             | 7.0              | 68             | <0.1             | 16.2             | 8.3              | 349            | 2.60            | 3.3              | 3.1             | 2.5              | 6.3              | 27             | <0.1             | 0.3              | 0.3              | 62            | 0.43            | 0.105           |
| ECH 111594 | Soil                             | 0.7              | 16.9             | 14.5             | 76             | <0.1             | 22.9             | 9.0              | 418            | 3.03            | 10.4             | 7.2             | 1.0              | 3.6              | 15             | 0.3              | 0.6              | 0.6              | 57            | 0.24            | 0.067           |
| ECH 111595 | Soil                             | 0.4              | 8.9              | 12.2             | 57             | <0.1             | 13.0             | 6.0              | 357            | 1.99            | 5.1              | 5.9             | 2.2              | 4.0              | 15             | 0.1              | 0.3              | 0.4              | 35            | 0.27            | 0.085           |
| ECH 85600  | Soil                             | 0.7              | 22.6             | 9.8              | 61             | <0.1             | 26.5             | 10.7             | 480            | 2.65            | 7.8              | 1.2             | 1.1              | 3.4              | 15             | 0.2              | 0.5              | 0.2              | 63            | 0.20            | 0.032           |
| ECH 111956 | Soil                             | 0.5              | 16.1             | 9.8              | 59             | <0.1             | 15.1             | 7.5              | 402            | 2.18            | 3.8              | 3.5             | 2.5              | 5.5              | 22             | <0.1             | 0.3              | 0.8              | 46            | 0.28            | 0.077           |
| ECH 111958 | Soil                             | 0.5              | 20.6             | 7.6              | 65             | <0.1             | 21.1             | 8.8              | 450            | 2.36            | 5.2              | 3.7             | 4.9              | 4.5              | 17             | 0.2              | 0.4              | 0.4              | 57            | 0.30            | 0.091           |
| ECH 111960 | Soil                             | 0.4              | 9.0              | 14.3             | 65             | <0.1             | 11.4             | 5.2              | 368            | 1.80            | 2.5              | 4.0             | 1.2              | 8.7              | 14             | <0.1             | 0.2              | 0.8              | 28            | 0.23            | 0.057           |
| ECH 111965 | Soil                             | 0.3              | 16.9             | 16.2             | 80             | <0.1             | 16.9             | 8.0              | 378            | 2.89            | 3.4              | 8.1             | 0.9              | 8.7              | 20             | <0.1             | 0.3              | 0.6              | 60            | 0.32            | 0.086           |
| ECH 111952 | Soil                             | 0.4              | 8.7              | 21.1             | 69             | <0.1             | 8.9              | 3.4              | 408            | 1.52            | 3.6              | 6.1             | <0.5             | 9.9              | 17             | 0.2              | 0.2              | 1.8              | 21            | 0.25            | 0.058           |
| ECH 111598 | Soil                             | 0.5              | 11.3             | 12.3             | 59             | <0.1             | 13.9             | 6.0              | 342            | 2.35            | 4.7              | 8.4             | 0.9              | 4.2              | 14             | 0.2              | 0.3              | 0.4              | 43            | 0.24            | 0.066           |
| ECH 111968 | Soil                             | 0.4              | 16.3             | 13.3             | 61             | <0.1             | 15.3             | 6.3              | 485            | 2.10            | 3.1              | 3.6             | 1.4              | 4.7              | 22             | 0.1              | 0.3              | 0.5              | 43            | 0.33            | 0.070           |
| ECH 111955 | Soil                             | 0.6              | 15.6             | 12.5             | 75             | <0.1             | 17.6             | 8.5              | 634            | 2.49            | 3.6              | 4.8             | 0.9              | 6.7              | 15             | 0.1              | 0.3              | 1.0              | 43            | 0.29            | 0.103           |
| ECH 111969 | Soil                             | 0.5              | 22.3             | 13.2             | 81             | <0.1             | 20.2             | 8.4              | 365            | 2.42            | 4.8              | 5.7             | 4.0              | 4.6              | 17             | 0.2              | 0.4              | 0.4              | 52            | 0.25            | 0.078           |
| ECH 111970 | Soil                             | 0.2              | 13.3             | 17.8             | 53             | <0.1             | 11.7             | 3.8              | 138            | 2.03            | 4.1              | 7.8             | 2.9              | 7.0              | 14             | 0.2              | 0.4              | 0.8              | 45            | 0.19            | 0.060           |
| ECH 85601  | Soil                             | 0.9              | 17.2             | 19.4             | 50             | <0.1             | 19.3             | 8.0              | 545            | 2.41            | 6.6              | 1.4             | 1.5              | 1.7              | 12             | 0.2              | 0.4              | 0.4              | 55            | 0.14            | 0.044           |
| ECH 111971 | Soil                             | 0.6              | 20.5             | 8.3              | 60             | <0.1             | 18.4             | 7.2              | 409            | 2.07            | 4.6              | 3.3             | 0.9              | 3.7              | 17             | 0.3              | 0.4              | 0.3              | 48            | 0.27            | 0.089           |
| ECH 111967 | Soil                             | 0.5              | 16.0             | 9.5              | 52             | <0.1             | 17.2             | 7.7              | 430            | 2.29            | 4.9              | 3.3             | 0.6              | 3.9              | 13             | 0.1              | 0.3              | 1.3              | 48            | 0.22            | 0.066           |
| ECH 85605  | Soil                             | 0.3              | 15.3             | 15.0             | 58             | <0.1             | 12.7             | 7.0              | 465            | 2.06            | 2.5              | 3.9             | 1.5              | 5.6              | 14             | <0.1             | 0.2              | 0.3              | 43            | 0.27            | 0.084           |



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Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85622  | Soil                             | 13    | 31    | 0.64  | 136   | 0.129 | 1     | 1.87  | 0.012 | 0.23  | 0.2   | 0.02  | 3.5   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85628  | Soil                             | 12    | 33    | 0.51  | 154   | 0.058 | 2     | 1.99  | 0.011 | 0.09  | 0.2   | 0.04  | 3.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85627  | Soil                             | 14    | 24    | 0.51  | 137   | 0.092 | 1     | 1.64  | 0.015 | 0.12  | 0.1   | 0.03  | 2.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111587 | Soil                             | 28    | 19    | 1.81  | 425   | 0.222 | <1    | 2.94  | 0.018 | 1.14  | 0.1   | 0.03  | 8.5   | 0.8   | <0.05 | 11    | <0.5  | <0.2  |
| ECH 111590 | Soil                             | 15    | 52    | 0.77  | 148   | 0.106 | 2     | 2.04  | 0.011 | 0.16  | 0.2   | 0.03  | 4.5   | 0.3   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 111954 | Soil                             | 14    | 25    | 0.43  | 130   | 0.082 | 1     | 1.44  | 0.011 | 0.15  | 0.1   | 0.06  | 3.8   | 0.5   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85626  | Soil                             | 9     | 20    | 0.35  | 74    | 0.075 | 1     | 1.09  | 0.014 | 0.12  | 0.2   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111591 | Soil                             | 13    | 40    | 0.57  | 115   | 0.069 | 2     | 2.00  | 0.009 | 0.11  | 0.8   | 0.03  | 3.5   | 0.2   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 111589 | Soil                             | 23    | 55    | 0.90  | 166   | 0.102 | <1    | 2.18  | 0.012 | 0.23  | 0.2   | 0.03  | 5.3   | 0.4   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111592 | Soil                             | 12    | 38    | 0.58  | 136   | 0.089 | 2     | 2.17  | 0.012 | 0.10  | 0.2   | 0.04  | 4.2   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111596 | Soil                             | 11    | 30    | 0.51  | 113   | 0.076 | 2     | 1.72  | 0.011 | 0.14  | 0.1   | 0.02  | 3.0   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111593 | Soil                             | 12    | 47    | 0.72  | 98    | 0.109 | 1     | 1.92  | 0.010 | 0.16  | 0.2   | 0.02  | 3.6   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111962 | Soil                             | 20    | 27    | 0.67  | 154   | 0.163 | <1    | 1.83  | 0.025 | 0.34  | <0.1  | 0.03  | 4.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111594 | Soil                             | 11    | 34    | 0.55  | 120   | 0.056 | 3     | 2.26  | 0.010 | 0.10  | 0.1   | 0.03  | 4.0   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111595 | Soil                             | 11    | 20    | 0.36  | 98    | 0.044 | 1     | 1.28  | 0.013 | 0.09  | 0.1   | 0.02  | 2.4   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 85600  | Soil                             | 10    | 28    | 0.57  | 106   | 0.098 | 1     | 1.95  | 0.029 | 0.08  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111956 | Soil                             | 13    | 24    | 0.44  | 114   | 0.108 | 2     | 1.72  | 0.011 | 0.18  | <0.1  | 0.03  | 3.9   | 0.4   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111958 | Soil                             | 13    | 32    | 0.52  | 112   | 0.111 | 1     | 1.77  | 0.013 | 0.16  | 0.1   | 0.05  | 3.7   | 0.2   | <0.05 | 5     | 0.5   | <0.2  |
| ECH 111960 | Soil                             | 17    | 21    | 0.36  | 87    | 0.068 | <1    | 1.68  | 0.008 | 0.23  | 0.4   | 0.03  | 2.4   | 0.4   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111965 | Soil                             | 22    | 29    | 0.59  | 114   | 0.124 | 2     | 2.11  | 0.013 | 0.36  | <0.1  | 0.04  | 6.1   | 0.6   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111952 | Soil                             | 19    | 12    | 0.21  | 114   | 0.025 | 1     | 0.95  | 0.008 | 0.06  | <0.1  | 0.02  | 2.2   | 0.2   | <0.05 | 3     | <0.5  | <0.2  |
| ECH 111598 | Soil                             | 12    | 26    | 0.47  | 101   | 0.093 | 1     | 1.68  | 0.011 | 0.20  | 0.2   | 0.02  | 3.0   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111968 | Soil                             | 13    | 24    | 0.39  | 93    | 0.083 | <1    | 1.45  | 0.020 | 0.12  | 0.1   | 0.03  | 3.5   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111955 | Soil                             | 17    | 30    | 0.51  | 100   | 0.103 | 1     | 1.81  | 0.021 | 0.36  | 0.1   | 0.03  | 3.3   | 0.7   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111969 | Soil                             | 15    | 27    | 0.44  | 110   | 0.090 | 1     | 1.99  | 0.014 | 0.08  | 0.1   | 0.04  | 3.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111970 | Soil                             | 17    | 24    | 0.30  | 91    | 0.060 | <1    | 1.56  | 0.009 | 0.09  | <0.1  | 0.05  | 3.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85601  | Soil                             | 9     | 25    | 0.39  | 83    | 0.069 | 1     | 1.91  | 0.009 | 0.06  | 0.4   | 0.05  | 2.1   | 0.1   | <0.05 | 5     | 0.5   | <0.2  |
| ECH 111971 | Soil                             | 13    | 22    | 0.39  | 105   | 0.080 | <1    | 1.52  | 0.015 | 0.09  | 0.1   | 0.04  | 2.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111967 | Soil                             | 13    | 25    | 0.46  | 77    | 0.095 | 1     | 1.88  | 0.011 | 0.15  | <0.1  | 0.02  | 3.1   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85605  | Soil                             | 14    | 18    | 0.41  | 106   | 0.093 | <1    | 1.52  | 0.015 | 0.25  | 0.1   | 0.02  | 2.6   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |



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Report Date:

September 02, 2010

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Part 1

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      |
|------------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
|            |                                  | Mo         | Cu         | Pb         | Zn       | Ag         | Ni         | Co         | Mn       | Fe        | As         | U          | Au         | Th         | Sr       | Cd         | Sb         | Bi         | V        | Ca        | P          |
|            |                                  | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| ECH 85604  | Soil                             | 0.5        | 21.9       | 7.5        | 54       | <0.1       | 22.9       | 10.1       | 440      | 2.42      | 5.9        | 1.3        | 3.0        | 4.7        | 14       | 0.2        | 0.4        | 0.1        | 56       | 0.19      | 0.042      |
| ECH 111972 | Soil                             | 0.5        | 14.0       | 8.6        | 75       | <0.1       | 14.1       | 7.3        | 521      | 2.45      | 2.7        | 3.7        | 1.0        | 4.2        | 17       | 0.1        | 0.3        | 1.2        | 51       | 0.23      | 0.090      |
| ECH 85603  | Soil                             | 0.6        | 15.7       | 8.1        | 56       | <0.1       | 17.2       | 8.9        | 365      | 2.46      | 5.1        | 0.8        | 0.9        | 3.0        | 13       | 0.2        | 0.3        | 0.2        | 58       | 0.16      | 0.059      |
| ECH 85539  | Soil                             | 0.7        | 23.5       | 8.2        | 60       | <0.1       | 22.7       | 9.3        | 444      | 2.63      | 6.5        | 1.0        | 3.2        | 2.2        | 17       | 0.1        | 0.5        | 0.5        | 62       | 0.19      | 0.050      |
| ECH 85602  | Soil                             | 0.6        | 18.8       | 13.9       | 66       | <0.1       | 20.3       | 8.5        | 400      | 2.46      | 5.7        | 5.8        | 1.8        | 4.2        | 14       | 0.2        | 0.4        | 0.4        | 52       | 0.19      | 0.074      |
| ECH 85606  | Soil                             | 0.3        | 16.3       | 7.4        | 62       | <0.1       | 16.1       | 6.9        | 246      | 2.08      | 3.9        | 2.5        | 2.4        | 4.5        | 18       | 0.2        | 0.3        | 0.4        | 44       | 0.30      | 0.081      |
| ECH 105710 | Soil                             | 0.4        | 17.1       | 24.3       | 59       | <0.1       | 16.4       | 7.7        | 333      | 2.37      | 4.5        | 4.6        | 2.8        | 7.7        | 19       | 0.1        | 0.4        | 0.3        | 46       | 0.26      | 0.065      |
| ECH 111580 | Soil                             | 0.3        | 10.3       | 20.2       | 49       | <0.1       | 18.5       | 6.0        | 259      | 3.63      | 6.4        | 6.5        | 2.3        | 6.0        | 9        | <0.1       | 0.4        | 1.0        | 52       | 0.15      | 0.069      |
| ECH 111588 | Soil                             | 0.4        | 26.0       | 19.2       | 84       | <0.1       | 64.9       | 16.5       | 484      | 3.69      | 15.3       | 8.1        | 1.8        | 9.6        | 26       | 0.2        | 0.9        | 0.4        | 65       | 0.40      | 0.105      |
| ECH 111579 | Soil                             | 0.3        | 13.8       | 17.9       | 42       | <0.1       | 11.8       | 4.6        | 169      | 1.37      | 2.4        | 15.0       | 3.9        | 7.4        | 13       | 0.1        | 0.5        | 0.4        | 49       | 0.17      | 0.034      |
| ECH 85563  | Soil                             | 0.8        | 25.7       | 21.7       | 74       | 0.2        | 20.6       | 10.9       | 677      | 2.90      | 7.0        | 11.6       | 2.6        | 6.1        | 23       | 0.2        | 0.4        | 0.7        | 63       | 0.23      | 0.085      |
| ECH 105712 | Soil                             | 0.3        | 15.5       | 34.5       | 39       | 0.2        | 10.4       | 3.5        | 123      | 1.13      | 2.0        | 15.9       | 2.8        | 7.7        | 10       | 0.1        | 1.3        | 0.9        | 31       | 0.16      | 0.051      |
| ECH 105711 | Soil                             | 0.7        | 21.0       | 21.8       | 69       | 0.1        | 18.6       | 8.6        | 457      | 2.81      | 7.0        | 5.8        | 2.2        | 5.1        | 18       | 0.1        | 0.6        | 0.4        | 58       | 0.24      | 0.080      |
| ECH 111583 | Soil                             | 0.2        | 32.5       | 21.2       | 35       | <0.1       | 34.7       | 6.4        | 124      | 1.55      | 4.4        | 15.2       | 1.3        | 6.9        | 16       | 0.2        | 1.1        | 0.4        | 41       | 0.18      | 0.041      |
| ECH 111581 | Soil                             | 0.1        | 17.6       | 10.4       | 67       | <0.1       | 63.7       | 15.2       | 441      | 3.96      | 0.8        | 3.1        | <0.5       | 5.6        | 12       | 0.1        | 0.2        | 0.3        | 88       | 0.24      | 0.068      |
| ECH 111959 | Soil                             | 0.4        | 9.8        | 10.6       | 54       | <0.1       | 14.9       | 5.6        | 278      | 1.74      | 2.5        | 2.2        | 2.6        | 3.5        | 22       | 0.1        | 0.3        | 0.6        | 46       | 0.33      | 0.072      |
| ECH 111964 | Soil                             | 0.4        | 19.2       | 12.5       | 61       | <0.1       | 13.6       | 6.4        | 258      | 2.07      | 2.7        | 13.5       | 2.7        | 5.6        | 28       | 0.2        | 0.3        | 0.3        | 47       | 0.46      | 0.111      |
| ECH 111597 | Soil                             | 0.8        | 16.2       | 17.2       | 84       | <0.1       | 20.7       | 6.7        | 290      | 2.96      | 8.2        | 10.4       | 2.0        | 3.0        | 21       | 0.2        | 0.5        | 0.6        | 57       | 0.27      | 0.081      |
| ECH 111772 | Soil                             | 1.1        | 14.4       | 25.2       | 87       | <0.1       | 16.9       | 7.6        | 449      | 2.23      | 14.0       | 15.1       | 1.4        | 19.5       | 30       | 0.2        | 0.7        | 0.6        | 46       | 0.33      | 0.071      |
| ECH 111791 | Soil                             | 0.6        | 16.5       | 8.7        | 58       | <0.1       | 27.0       | 14.9       | 471      | 3.92      | 4.4        | 2.1        | 1.6        | 6.8        | 20       | <0.1       | 0.5        | 0.4        | 80       | 0.30      | 0.063      |
| ECH 85705  | Soil                             | 0.8        | 25.5       | 17.0       | 72       | 0.1        | 23.0       | 11.7       | 583      | 2.85      | 6.3        | 9.4        | 4.7        | 5.4        | 18       | 0.2        | 0.4        | 0.4        | 66       | 0.25      | 0.093      |
| ECH 85703  | Soil                             | 0.7        | 24.9       | 10.2       | 69       | <0.1       | 24.9       | 11.0       | 563      | 2.82      | 7.8        | 3.3        | 3.9        | 5.1        | 20       | 0.2        | 0.5        | 0.3        | 68       | 0.29      | 0.085      |
| ECH 111794 | Soil                             | 1.1        | 15.1       | 15.4       | 47       | <0.1       | 20.7       | 10.3       | 399      | 3.66      | 9.9        | 3.0        | 1.5        | 7.5        | 16       | 0.1        | 1.3        | 0.5        | 65       | 0.17      | 0.044      |
| ECH 85699  | Soil                             | 0.5        | 20.2       | 9.3        | 56       | <0.1       | 17.0       | 7.7        | 462      | 2.08      | 4.0        | 3.7        | 4.2        | 5.5        | 15       | 0.2        | 0.3        | 0.6        | 48       | 0.24      | 0.081      |
| ECH 85708  | Soil                             | 0.6        | 24.3       | 23.4       | 76       | <0.1       | 26.6       | 10.8       | 393      | 2.95      | 5.6        | 6.2        | 2.5        | 7.1        | 22       | 0.1        | 0.5        | 0.3        | 60       | 0.31      | 0.073      |
| ECH 85704  | Soil                             | 0.7        | 25.6       | 11.1       | 72       | <0.1       | 23.0       | 10.7       | 466      | 2.73      | 6.9        | 4.1        | 3.9        | 5.9        | 18       | 0.3        | 0.5        | 0.4        | 67       | 0.29      | 0.098      |
| ECH 85577  | Soil                             | 0.6        | 22.5       | 15.0       | 77       | <0.1       | 21.7       | 9.7        | 612      | 2.65      | 5.9        | 4.4        | 2.2        | 6.4        | 19       | 0.3        | 0.4        | 1.0        | 59       | 0.28      | 0.090      |
| ECH 85700  | Soil                             | 0.5        | 19.6       | 8.6        | 64       | <0.1       | 22.1       | 9.2        | 442      | 2.24      | 5.2        | 2.0        | 1.2        | 4.7        | 18       | 0.2        | 0.4        | 0.3        | 55       | 0.27      | 0.075      |
| ECH 85580  | Soil                             | 0.3        | 21.7       | 17.2       | 75       | <0.1       | 8.8        | 6.9        | 611      | 2.36      | 2.1        | 11.4       | 1.1        | 5.4        | 13       | 0.1        | 0.2        | 0.8        | 42       | 0.27      | 0.103      |
| ECH 111796 | Soil                             | 0.7        | 20.4       | 12.6       | 66       | <0.1       | 24.2       | 11.6       | 333      | 3.44      | 4.9        | 3.4        | 2.1        | 8.2        | 20       | 0.2        | 0.4        | 0.3        | 67       | 0.26      | 0.055      |



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ECH

Report Date:

September 02, 2010

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Part 2

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85604  | Soil                             | 11    | 28    | 0.51  | 84    | 0.097 | <1    | 1.86  | 0.015 | 0.08  | 0.1   | 0.04  | 3.0   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111972 | Soil                             | 15    | 22    | 0.48  | 146   | 0.113 | <1    | 1.76  | 0.017 | 0.25  | <0.1  | 0.03  | 2.9   | 0.4   | <0.05 | 7     | <0.5  | 0.5   |
| ECH 85603  | Soil                             | 11    | 24    | 0.42  | 91    | 0.096 | <1    | 1.79  | 0.009 | 0.08  | 0.1   | 0.06  | 2.4   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85539  | Soil                             | 10    | 29    | 0.50  | 114   | 0.095 | <1    | 1.90  | 0.013 | 0.07  | 0.1   | 0.05  | 2.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85602  | Soil                             | 13    | 25    | 0.47  | 114   | 0.081 | <1    | 1.90  | 0.012 | 0.10  | 0.2   | 0.03  | 2.9   | 0.2   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 85606  | Soil                             | 13    | 24    | 0.41  | 101   | 0.094 | <1    | 1.60  | 0.014 | 0.13  | 0.1   | 0.03  | 3.1   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 105710 | Soil                             | 25    | 24    | 0.47  | 116   | 0.061 | 2     | 1.88  | 0.012 | 0.09  | 0.1   | 0.03  | 3.7   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111580 | Soil                             | 12    | 48    | 0.60  | 109   | 0.084 | <1    | 2.07  | 0.007 | 0.28  | 0.2   | 0.04  | 3.5   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111588 | Soil                             | 24    | 80    | 0.98  | 362   | 0.116 | 2     | 1.97  | 0.014 | 0.38  | 0.1   | 0.06  | 6.9   | 0.7   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111579 | Soil                             | 19    | 27    | 0.34  | 129   | 0.057 | 2     | 1.62  | 0.008 | 0.07  | 0.1   | 0.06  | 4.0   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85563  | Soil                             | 25    | 31    | 0.50  | 299   | 0.089 | 1     | 2.35  | 0.014 | 0.13  | 0.1   | 0.06  | 4.0   | 0.3   | 0.08  | 7     | 0.7   | <0.2  |
| ECH 105712 | Soil                             | 23    | 22    | 0.30  | 103   | 0.030 | 1     | 1.60  | 0.007 | 0.09  | 0.2   | 0.06  | 3.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 105711 | Soil                             | 19    | 28    | 0.50  | 128   | 0.056 | 2     | 1.99  | 0.010 | 0.11  | 0.1   | 0.03  | 3.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111583 | Soil                             | 20    | 61    | 0.55  | 136   | 0.063 | <1    | 1.63  | 0.009 | 0.14  | <0.1  | 0.07  | 6.1   | 0.3   | 0.05  | 6     | <0.5  | <0.2  |
| ECH 111581 | Soil                             | 14    | 145   | 1.82  | 260   | 0.274 | <1    | 2.85  | 0.012 | 1.03  | 0.2   | 0.02  | 6.0   | 1.0   | <0.05 | 10    | <0.5  | <0.2  |
| ECH 111959 | Soil                             | 11    | 29    | 0.45  | 110   | 0.101 | 2     | 1.59  | 0.014 | 0.15  | 0.1   | 0.04  | 2.6   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111964 | Soil                             | 24    | 25    | 0.55  | 160   | 0.122 | 1     | 1.73  | 0.018 | 0.29  | <0.1  | 0.04  | 4.9   | 0.3   | 0.08  | 6     | <0.5  | <0.2  |
| ECH 111597 | Soil                             | 12    | 36    | 0.60  | 174   | 0.072 | 2     | 2.42  | 0.011 | 0.17  | 0.2   | 0.04  | 3.6   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111772 | Soil                             | 23    | 22    | 0.38  | 134   | 0.060 | 1     | 1.11  | 0.024 | 0.10  | 0.3   | <0.01 | 4.4   | 0.1   | <0.05 | 3     | <0.5  | <0.2  |
| ECH 111791 | Soil                             | 20    | 47    | 1.05  | 387   | 0.195 | 1     | 2.52  | 0.021 | 0.64  | 0.1   | 0.02  | 7.1   | 0.5   | <0.05 | 9     | <0.5  | <0.2  |
| ECH 85705  | Soil                             | 19    | 33    | 0.58  | 180   | 0.110 | 1     | 2.46  | 0.012 | 0.11  | 0.2   | 0.04  | 4.0   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85703  | Soil                             | 16    | 32    | 0.60  | 133   | 0.105 | 2     | 1.95  | 0.014 | 0.09  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111794 | Soil                             | 19    | 34    | 0.59  | 128   | 0.104 | 2     | 1.80  | 0.010 | 0.19  | 0.4   | 0.05  | 3.9   | 0.3   | 0.05  | 7     | <0.5  | <0.2  |
| ECH 85699  | Soil                             | 14    | 24    | 0.37  | 94    | 0.086 | <1    | 1.72  | 0.012 | 0.06  | 0.1   | 0.03  | 2.3   | 0.1   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 85708  | Soil                             | 20    | 41    | 0.67  | 173   | 0.114 | 1     | 2.11  | 0.013 | 0.17  | 0.2   | 0.03  | 4.8   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85704  | Soil                             | 20    | 32    | 0.54  | 173   | 0.116 | 2     | 2.09  | 0.016 | 0.12  | 0.2   | 0.02  | 3.9   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85577  | Soil                             | 17    | 27    | 0.55  | 155   | 0.120 | 2     | 2.00  | 0.016 | 0.15  | 0.2   | 0.02  | 3.6   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85700  | Soil                             | 13    | 27    | 0.48  | 95    | 0.102 | 1     | 1.68  | 0.016 | 0.08  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85580  | Soil                             | 14    | 14    | 0.55  | 217   | 0.137 | <1    | 1.92  | 0.013 | 0.52  | <0.1  | 0.01  | 3.7   | 0.7   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111796 | Soil                             | 16    | 39    | 0.66  | 170   | 0.135 | 2     | 2.32  | 0.016 | 0.24  | 0.1   | 0.03  | 4.9   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |



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ECH

Report Date:

September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | 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    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca | P    |
|            |        |         |      |      | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %  | %    |
|            |        |         |      |      | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 0.1   | 2  | 0.01 |
| ECH 128523 | Soil   |         | 0.7  | 22.7 | 7.6   | 53    | <0.1  | 21.5  | 10.0  | 314   | 2.75  | 5.5   | 2.1   | 1.4   | 6.1   | 18    | 0.2   | 0.4   | 0.2   | 64    | 0.25  | 0.048 |    |      |
| ECH 128527 | Soil   |         | 1.0  | 15.0 | 11.1  | 68    | <0.1  | 21.3  | 10.2  | 288   | 3.22  | 11.9  | 3.3   | 2.3   | 5.2   | 22    | 0.2   | 0.4   | 0.4   | 69    | 0.29  | 0.084 |    |      |
| ECH 111995 | Soil   |         | 0.9  | 28.3 | 9.2   | 72    | 0.1   | 19.4  | 10.8  | 366   | 2.72  | 7.2   | 0.8   | 2.9   | 3.6   | 31    | 0.2   | 0.6   | 0.2   | 63    | 0.49  | 0.067 |    |      |
| ECH 128526 | Soil   |         | 0.5  | 24.3 | 10.2  | 73    | <0.1  | 24.9  | 10.2  | 255   | 2.85  | 5.3   | 4.8   | 2.1   | 5.4   | 21    | 0.2   | 0.5   | 0.6   | 70    | 0.31  | 0.071 |    |      |
| ECH 111802 | Soil   |         | 1.3  | 7.8  | 11.3  | 43    | <0.1  | 12.5  | 7.5   | 581   | 2.18  | 4.2   | 1.7   | 1.9   | 5.4   | 14    | 0.2   | 0.3   | 0.3   | 60    | 0.19  | 0.066 |    |      |
| ECH 111800 | Soil   |         | 1.6  | 14.0 | 14.7  | 70    | <0.1  | 18.8  | 9.0   | 346   | 4.10  | 8.6   | 2.2   | 2.2   | 7.1   | 15    | 0.3   | 0.5   | 0.2   | 68    | 0.20  | 0.068 |    |      |
| ECH 111799 | Soil   |         | 1.1  | 17.5 | 8.0   | 60    | <0.1  | 18.8  | 10.7  | 350   | 3.09  | 4.8   | 2.2   | 2.8   | 6.9   | 17    | 0.1   | 0.4   | 0.2   | 66    | 0.24  | 0.063 |    |      |
| ECH 111801 | Soil   |         | 0.9  | 21.2 | 9.9   | 60    | <0.1  | 19.6  | 8.5   | 296   | 2.52  | 4.9   | 4.5   | 4.1   | 6.4   | 28    | 0.2   | 0.4   | 0.2   | 54    | 0.48  | 0.086 |    |      |
| ECH 111795 | Soil   |         | 1.0  | 21.3 | 13.2  | 56    | <0.1  | 25.6  | 11.0  | 395   | 3.13  | 7.5   | 1.4   | 2.8   | 4.2   | 15    | 0.2   | 0.5   | 0.2   | 61    | 0.16  | 0.048 |    |      |
| ECH 111792 | Soil   |         | 0.7  | 18.8 | 9.0   | 54    | <0.1  | 26.4  | 13.8  | 300   | 3.81  | 5.8   | 1.5   | 2.2   | 6.6   | 20    | 0.2   | 0.4   | 0.4   | 82    | 0.26  | 0.052 |    |      |
| ECH 111793 | Soil   |         | 0.8  | 27.7 | 10.9  | 56    | <0.1  | 25.9  | 14.1  | 470   | 2.93  | 8.1   | 3.1   | 2.9   | 4.7   | 17    | 0.2   | 0.5   | 0.2   | 62    | 0.20  | 0.045 |    |      |
| ECH 111797 | Soil   |         | 0.8  | 18.1 | 11.0  | 50    | <0.1  | 19.6  | 8.9   | 299   | 2.75  | 5.9   | 1.6   | 5.9   | 4.1   | 13    | 0.2   | 0.4   | 0.2   | 52    | 0.17  | 0.064 |    |      |
| ECH 111847 | Soil   |         | 1.4  | 18.0 | 14.6  | 80    | <0.1  | 17.2  | 10.1  | 744   | 3.21  | 5.6   | 9.0   | 10.9  | 8.6   | 13    | 0.1   | 0.4   | 0.5   | 51    | 0.20  | 0.059 |    |      |
| ECH 111843 | Soil   |         | 1.8  | 26.8 | 11.6  | 72    | <0.1  | 28.8  | 13.6  | 550   | 3.19  | 5.2   | 14.5  | 4.1   | 7.9   | 17    | 0.1   | 0.4   | 0.5   | 65    | 0.25  | 0.064 |    |      |
| ECH 85696  | Soil   |         | 0.6  | 28.1 | 11.4  | 63    | <0.1  | 20.7  | 9.5   | 505   | 2.48  | 6.1   | 9.0   | 2.4   | 4.1   | 11    | 0.2   | 0.4   | 0.3   | 63    | 0.20  | 0.079 |    |      |
| ECH 85582  | Soil   |         | 0.7  | 18.8 | 14.9  | 61    | 0.1   | 18.1  | 8.4   | 494   | 2.41  | 6.2   | 14.5  | 4.6   | 3.1   | 12    | 0.2   | 0.4   | 0.8   | 50    | 0.17  | 0.062 |    |      |
| ECH 85584  | Soil   |         | 0.4  | 13.4 | 14.6  | 79    | <0.1  | 13.8  | 6.7   | 553   | 2.25  | 3.8   | 13.4  | 2.0   | 3.8   | 12    | 0.1   | 0.2   | 0.7   | 44    | 0.25  | 0.089 |    |      |
| ECH 111840 | Soil   |         | 0.6  | 29.4 | 8.7   | 83    | <0.1  | 25.9  | 12.4  | 337   | 3.30  | 3.6   | 4.7   | 2.2   | 11.2  | 18    | 0.2   | 0.4   | 0.3   | 73    | 0.35  | 0.079 |    |      |
| ECH 111845 | Soil   |         | 1.1  | 27.6 | 8.6   | 61    | <0.1  | 27.1  | 11.6  | 365   | 2.91  | 6.0   | 2.6   | 2.0   | 4.7   | 12    | 0.1   | 0.4   | 1.2   | 62    | 0.17  | 0.047 |    |      |
| ECH 111846 | Soil   |         | 1.0  | 21.7 | 13.8  | 57    | <0.1  | 24.3  | 11.4  | 462   | 2.83  | 6.0   | 2.9   | 1.8   | 3.9   | 11    | 0.2   | 0.4   | 0.3   | 61    | 0.17  | 0.045 |    |      |
| ECH 111844 | Soil   |         | 0.8  | 24.3 | 8.0   | 54    | <0.1  | 23.6  | 9.1   | 330   | 2.41  | 7.0   | 2.4   | 2.5   | 2.7   | 12    | 0.1   | 0.4   | 0.2   | 55    | 0.16  | 0.042 |    |      |
| ECH 111842 | Soil   |         | 0.8  | 17.3 | 11.3  | 55    | <0.1  | 19.4  | 10.4  | 227   | 2.39  | 2.6   | 5.0   | 1.7   | 6.6   | 17    | 0.1   | 0.4   | 0.3   | 63    | 0.29  | 0.060 |    |      |
| ECH 128511 | Soil   |         | 0.9  | 20.9 | 9.5   | 53    | <0.1  | 19.7  | 8.3   | 338   | 2.77  | 7.8   | 1.3   | 2.6   | 1.6   | 10    | 0.2   | 0.4   | 0.2   | 59    | 0.11  | 0.045 |    |      |
| ECH 128509 | Soil   |         | 1.0  | 22.4 | 10.1  | 57    | <0.1  | 20.6  | 10.7  | 647   | 2.46  | 6.8   | 7.6   | 7.0   | 4.7   | 13    | 0.3   | 0.4   | 0.3   | 55    | 0.20  | 0.073 |    |      |
| ECH 85707  | Soil   |         | 0.4  | 16.9 | 17.7  | 60    | <0.1  | 18.2  | 7.3   | 227   | 1.80  | 2.1   | 4.9   | 4.6   | 4.2   | 14    | <0.1  | 0.3   | 0.3   | 40    | 0.24  | 0.065 |    |      |
| ECH 111776 | Soil   |         | 1.3  | 24.8 | 11.1  | 75    | 0.1   | 26.8  | 13.9  | 469   | 3.22  | 3.3   | 14.0  | 1.2   | 3.3   | 18    | 0.3   | 0.2   | 0.5   | 92    | 0.32  | 0.052 |    |      |
| ECH 111778 | Soil   |         | 1.1  | 26.4 | 10.5  | 86    | <0.1  | 31.9  | 11.3  | 381   | 2.75  | 6.8   | 2.9   | 2.7   | 4.7   | 13    | 0.2   | 0.4   | 0.2   | 77    | 0.21  | 0.052 |    |      |
| ECH 111774 | Soil   |         | 0.8  | 15.9 | 20.0  | 172   | <0.1  | 16.1  | 8.0   | 453   | 2.28  | 4.5   | 16.1  | 1.6   | 11.6  | 18    | 0.9   | 0.3   | 1.0   | 50    | 0.27  | 0.060 |    |      |
| ECH 85698  | Soil   |         | 0.5  | 14.4 | 29.9  | 53    | <0.1  | 13.9  | 6.3   | 373   | 1.79  | 4.0   | 5.8   | 3.3   | 4.7   | 13    | 0.2   | 0.3   | 0.6   | 42    | 0.20  | 0.063 |    |      |
| ECH 111798 | Soil   |         | 0.8  | 24.5 | 7.4   | 56    | <0.1  | 24.5  | 11.1  | 390   | 2.78  | 6.2   | 2.0   | 2.7   | 4.4   | 15    | 0.2   | 0.4   | 0.2   | 61    | 0.26  | 0.077 |    |      |



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Project: ECH  
Report Date: September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 128523 | Soil                             | 19    | 35    | 0.61  | 125   | 0.135 | 2     | 2.01  | 0.019 | 0.18  | 0.3   | 0.03  | 3.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128527 | Soil                             | 15    | 38    | 0.67  | 208   | 0.135 | 2     | 2.21  | 0.017 | 0.15  | 0.2   | 0.05  | 3.9   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111995 | Soil                             | 14    | 30    | 0.79  | 290   | 0.098 | 2     | 1.77  | 0.024 | 0.09  | 0.3   | 0.02  | 4.7   | <0.1  | <0.05 | 5     | <0.5  | <0.2  |
| ECH 128526 | Soil                             | 15    | 46    | 0.81  | 291   | 0.154 | 1     | 2.17  | 0.016 | 0.22  | 0.2   | 0.04  | 5.5   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111802 | Soil                             | 16    | 25    | 0.35  | 87    | 0.103 | 2     | 1.19  | 0.013 | 0.18  | 0.1   | 0.04  | 2.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111800 | Soil                             | 17    | 31    | 0.46  | 118   | 0.092 | 2     | 2.20  | 0.014 | 0.12  | 0.3   | 0.06  | 3.0   | 0.2   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111799 | Soil                             | 17    | 28    | 0.60  | 109   | 0.141 | 1     | 1.83  | 0.016 | 0.21  | 0.1   | 0.02  | 3.4   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111801 | Soil                             | 18    | 27    | 0.57  | 167   | 0.097 | 2     | 1.53  | 0.023 | 0.15  | 0.2   | 0.03  | 3.5   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111795 | Soil                             | 12    | 35    | 0.61  | 113   | 0.104 | 2     | 2.47  | 0.013 | 0.12  | 0.1   | 0.05  | 3.3   | 0.2   | <0.05 | 7     | 0.6   | <0.2  |
| ECH 111792 | Soil                             | 16    | 47    | 0.93  | 168   | 0.187 | 2     | 2.55  | 0.017 | 0.30  | 0.3   | 0.02  | 5.0   | 0.4   | <0.05 | 9     | <0.5  | <0.2  |
| ECH 111793 | Soil                             | 14    | 36    | 0.66  | 110   | 0.099 | 2     | 2.50  | 0.016 | 0.10  | 0.3   | 0.04  | 4.1   | 0.2   | <0.05 | 6     | 0.6   | <0.2  |
| ECH 111797 | Soil                             | 14    | 30    | 0.46  | 96    | 0.063 | <1    | 2.04  | 0.013 | 0.10  | 0.2   | 0.04  | 2.9   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 111847 | Soil                             | 23    | 26    | 0.37  | 178   | 0.060 | 1     | 1.32  | 0.009 | 0.14  | 0.2   | 0.04  | 4.3   | 0.6   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111843 | Soil                             | 25    | 39    | 0.67  | 237   | 0.103 | 2     | 1.90  | 0.010 | 0.20  | 0.5   | 0.04  | 5.4   | 0.4   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 85696  | Soil                             | 13    | 28    | 0.44  | 168   | 0.102 | 1     | 2.07  | 0.009 | 0.11  | 0.2   | 0.05  | 3.6   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85582  | Soil                             | 11    | 25    | 0.45  | 136   | 0.053 | 2     | 1.74  | 0.009 | 0.06  | 0.1   | 0.04  | 2.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85584  | Soil                             | 11    | 22    | 0.45  | 152   | 0.072 | 1     | 1.43  | 0.008 | 0.24  | 0.1   | 0.01  | 2.9   | 0.4   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111840 | Soil                             | 36    | 39    | 0.77  | 297   | 0.141 | 1     | 1.82  | 0.016 | 0.49  | 0.1   | 0.03  | 7.8   | 0.4   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 111845 | Soil                             | 14    | 34    | 0.56  | 87    | 0.084 | <1    | 1.92  | 0.009 | 0.11  | 5.1   | 0.04  | 3.5   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111846 | Soil                             | 9     | 31    | 0.56  | 110   | 0.079 | 2     | 1.69  | 0.009 | 0.14  | 0.5   | 0.04  | 3.4   | 0.3   | <0.05 | 5     | <0.5  | 0.2   |
| ECH 111844 | Soil                             | 8     | 27    | 0.52  | 85    | 0.067 | 2     | 1.92  | 0.009 | 0.06  | 0.3   | 0.05  | 2.6   | 0.1   | <0.05 | 4     | <0.5  | 0.2   |
| ECH 111842 | Soil                             | 15    | 35    | 0.62  | 199   | 0.117 | 1     | 1.58  | 0.012 | 0.21  | 0.2   | 0.03  | 5.0   | 0.3   | <0.05 | 6     | <0.5  | 0.2   |
| ECH 128511 | Soil                             | 9     | 29    | 0.45  | 102   | 0.065 | 2     | 2.13  | 0.008 | 0.07  | 0.1   | 0.06  | 2.1   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128509 | Soil                             | 16    | 29    | 0.51  | 151   | 0.083 | 1     | 1.71  | 0.010 | 0.10  | 0.2   | 0.03  | 4.6   | 0.2   | <0.05 | 5     | <0.5  | 0.2   |
| ECH 85707  | Soil                             | 14    | 28    | 0.52  | 124   | 0.082 | <1    | 1.60  | 0.009 | 0.13  | 0.1   | 0.03  | 3.1   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111776 | Soil                             | 11    | 73    | 1.04  | 190   | 0.110 | 1     | 2.44  | 0.036 | 0.26  | 0.2   | 0.04  | 8.0   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111778 | Soil                             | 11    | 38    | 0.66  | 131   | 0.087 | 1     | 2.13  | 0.012 | 0.08  | 0.2   | 0.05  | 3.5   | 0.2   | <0.05 | 5     | <0.5  | 0.2   |
| ECH 111774 | Soil                             | 16    | 25    | 0.49  | 139   | 0.071 | <1    | 1.47  | 0.024 | 0.09  | 0.2   | 0.02  | 3.6   | 0.2   | <0.05 | 4     | <0.5  | <0.2  |
| ECH 85698  | Soil                             | 13    | 20    | 0.29  | 93    | 0.059 | <1    | 1.20  | 0.010 | 0.08  | <0.1  | 0.03  | 2.4   | 0.1   | <0.05 | 4     | <0.5  | 0.2   |
| ECH 111798 | Soil                             | 12    | 32    | 0.58  | 135   | 0.111 | 1     | 1.97  | 0.009 | 0.13  | 0.3   | 0.04  | 3.6   | 0.2   | <0.05 | 6     | <0.5  | 0.2   |



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Report Date:

September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15      | 1DX15      | 1DX15      | 1DX15    | 1DX15     | 1DX15      |
|------------|----------------------------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|------------|------------|------------|----------|------------|------------|------------|----------|-----------|------------|
|            |                                  | Mo         | Cu         | Pb         | Zn       | Ag         | Ni         | Co         | Mn       | Fe        | As         | U          | Au         | Th         | Sr       | Cd         | Sb         | Bi         | V        | Ca        | P          |
|            |                                  | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>1 | %<br>0.01 | ppm<br>0.5 | ppm<br>0.1 | ppb<br>0.5 | ppm<br>0.1 | ppm<br>1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>0.1 | ppm<br>2 | %<br>0.01 | %<br>0.001 |
| ECH 111789 | 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.       |
| ECH 111779 | Soil                             | 2.1        | 42.9       | 11.6       | 141      | 0.2        | 42.3       | 11.9       | 381      | 3.03      | 7.6        | 11.1       | 9.5        | 2.6        | 19       | 0.4        | 0.5        | 1.3        | 92       | 0.27      | 0.111      |
| ECH 111771 | Soil                             | 1.9        | 29.2       | 9.9        | 117      | 0.1        | 30.0       | 8.4        | 267      | 2.77      | 6.2        | 6.1        | 4.0        | 4.2        | 18       | 0.2        | 0.5        | 0.8        | 73       | 0.27      | 0.099      |
| ECH 85576  | Soil                             | 0.5        | 19.2       | 9.5        | 69       | <0.1       | 16.8       | 9.3        | 491      | 2.51      | 4.0        | 4.0        | 1.2        | 7.1        | 18       | 0.2        | 0.3        | 1.0        | 57       | 0.33      | 0.098      |
| ECH 85581  | Soil                             | 0.3        | 21.4       | 15.7       | 68       | <0.1       | 8.5        | 6.6        | 596      | 2.30      | 2.2        | 10.2       | <0.5       | 4.4        | 10       | 0.2        | 0.2        | 0.6        | 39       | 0.22      | 0.084      |
| ECH 85702  | Soil                             | 0.6        | 16.6       | 15.1       | 63       | <0.1       | 16.8       | 7.6        | 286      | 2.35      | 5.2        | 4.9        | 1.2        | 4.3        | 16       | 0.2        | 0.4        | 0.4        | 52       | 0.27      | 0.074      |
| ECH 111775 | Soil                             | 2.4        | 19.4       | 17.7       | 107      | <0.1       | 22.5       | 12.9       | 673      | 3.45      | 5.1        | 20.2       | 2.7        | 12.2       | 21       | 0.2        | 0.4        | 0.8        | 78       | 0.38      | 0.061      |
| ECH 85585  | Soil                             | 0.6        | 11.4       | 18.2       | 85       | <0.1       | 8.2        | 3.6        | 458      | 2.28      | 4.1        | 22.2       | 1.3        | 2.8        | 12       | 0.2        | 0.3        | 0.7        | 34       | 0.11      | 0.044      |
| ECH 85706  | Soil                             | 0.6        | 20.8       | 17.0       | 68       | <0.1       | 18.9       | 8.7        | 328      | 2.54      | 4.3        | 9.0        | 2.5        | 5.9        | 15       | 0.1        | 0.3        | 0.3        | 53       | 0.25      | 0.076      |
| ECH 111838 | Soil                             | 0.9        | 21.5       | 8.1        | 52       | <0.1       | 16.0       | 8.6        | 351      | 2.60      | 4.4        | 2.7        | 2.9        | 10.7       | 18       | <0.1       | 0.4        | 0.2        | 50       | 0.24      | 0.046      |
| ECH 111837 | Soil                             | 0.7        | 20.0       | 13.8       | 55       | <0.1       | 19.8       | 8.5        | 345      | 2.48      | 4.2        | 2.4        | 2.6        | 7.5        | 13       | <0.1       | 0.3        | 0.4        | 52       | 0.22      | 0.065      |
| ECH 111790 | Soil                             | 0.5        | 17.7       | 8.4        | 47       | <0.1       | 19.5       | 9.1        | 241      | 2.60      | 4.3        | 2.9        | 3.5        | 7.1        | 20       | 0.2        | 0.4        | 0.2        | 56       | 0.31      | 0.068      |
| ECH 85697  | Soil                             | 0.5        | 14.4       | 31.2       | 56       | <0.1       | 13.7       | 6.0        | 385      | 1.81      | 4.2        | 6.2        | 2.4        | 4.4        | 14       | 0.2        | 0.3        | 0.7        | 41       | 0.20      | 0.062      |
| ECH 85583  | Soil                             | 0.5        | 12.8       | 15.7       | 56       | <0.1       | 14.1       | 7.1        | 440      | 2.48      | 5.5        | 14.2       | 2.6        | 3.8        | 14       | 0.1        | 0.3        | 0.7        | 46       | 0.21      | 0.076      |
| ECH 111841 | Soil                             | 0.7        | 21.2       | 10.6       | 56       | <0.1       | 24.1       | 11.7       | 333      | 2.86      | 5.2        | 4.6        | 2.5        | 7.4        | 18       | 0.1        | 0.4        | 0.3        | 60       | 0.27      | 0.059      |
| ECH 111839 | Soil                             | 1.1        | 18.8       | 9.2        | 60       | <0.1       | 23.2       | 9.6        | 368      | 2.79      | 8.1        | 0.9        | 1.8        | 5.1        | 12       | 0.2        | 0.5        | 0.2        | 57       | 0.15      | 0.036      |
| ECH 128512 | Soil                             | 0.7        | 14.8       | 13.3       | 54       | <0.1       | 17.9       | 7.0        | 412      | 2.56      | 6.1        | 5.7        | 1.5        | 3.3        | 10       | <0.1       | 0.3        | 0.3        | 55       | 0.11      | 0.033      |
| ECH 128515 | Soil                             | 0.9        | 10.3       | 10.6       | 54       | <0.1       | 16.5       | 6.6        | 310      | 2.34      | 6.2        | 0.9        | 0.5        | 4.0        | 11       | 0.3        | 0.3        | 0.2        | 49       | 0.15      | 0.046      |
| ECH 85690  | Soil                             | 0.7        | 21.3       | 11.2       | 67       | <0.1       | 24.1       | 9.2        | 380      | 2.59      | 6.8        | 2.2        | 5.2        | 2.4        | 14       | 0.2        | 0.4        | 0.2        | 52       | 0.20      | 0.064      |
| ECH 85688  | Soil                             | 1.4        | 25.1       | 26.5       | 72       | 0.2        | 23.4       | 8.9        | 588      | 2.59      | 7.3        | 5.0        | 3.1        | 3.5        | 15       | 0.3        | 0.5        | 1.4        | 49       | 0.21      | 0.078      |
| ECH 128513 | Soil                             | 0.9        | 16.0       | 9.8        | 45       | 0.1        | 18.5       | 7.0        | 291      | 2.64      | 6.5        | 2.8        | 5.3        | 2.7        | 8        | <0.1       | 0.4        | 0.2        | 51       | 0.09      | 0.031      |
| ECH 128516 | Soil                             | 2.2        | 13.2       | 13.8       | 58       | 0.1        | 15.1       | 17.8       | 763      | 3.26      | 5.4        | 5.3        | 3.6        | 9.0        | 9        | <0.1       | 0.3        | 0.7        | 49       | 0.17      | 0.058      |
| ECH 128510 | Soil                             | 0.9        | 13.8       | 9.2        | 50       | <0.1       | 19.4       | 7.5        | 298      | 2.61      | 6.9        | 1.4        | 2.4        | 3.0        | 13       | 0.2        | 0.4        | 0.2        | 55       | 0.16      | 0.040      |
| ECH 128518 | Soil                             | 1.6        | 23.7       | 8.7        | 64       | <0.1       | 31.0       | 13.9       | 545      | 3.83      | 5.5        | 3.4        | 1.3        | 6.7        | 19       | 0.1        | 0.3        | 0.8        | 67       | 0.36      | 0.076      |
| ECH 85684  | Soil                             | 0.5        | 14.2       | 17.0       | 85       | <0.1       | 17.0       | 7.1        | 743      | 2.48      | 4.6        | 13.0       | 1.1        | 4.5        | 11       | 0.2        | 0.3        | 4.8        | 35       | 0.20      | 0.083      |
| ECH 85694  | Soil                             | 0.7        | 23.1       | 9.4        | 63       | <0.1       | 24.0       | 10.1       | 591      | 2.45      | 5.7        | 3.5        | 2.2        | 2.8        | 15       | 0.3        | 0.4        | 0.2        | 56       | 0.26      | 0.079      |
| ECH 85689  | Soil                             | 1.2        | 16.9       | 11.1       | 65       | <0.1       | 19.7       | 7.8        | 304      | 2.99      | 7.9        | 0.7        | 6.8        | 1.6        | 11       | 0.2        | 0.5        | 0.3        | 67       | 0.12      | 0.039      |
| ECH 128514 | Soil                             | 0.2        | 8.8        | 9.4        | 40       | <0.1       | 12.7       | 4.3        | 159      | 1.51      | 1.5        | 4.8        | 3.8        | 6.3        | 13       | 0.1        | 0.3        | 0.2        | 35       | 0.23      | 0.054      |
| ECH 85691  | Soil                             | 1.1        | 18.0       | 9.4        | 60       | <0.1       | 24.3       | 9.4        | 401      | 2.70      | 7.9        | 1.1        | 4.1        | 2.9        | 14       | 0.2        | 0.5        | 0.2        | 64       | 0.19      | 0.044      |
| ECH 85685  | Soil                             | 0.8        | 19.9       | 8.2        | 58       | <0.1       | 26.5       | 10.1       | 392      | 2.67      | 7.6        | 0.9        | 4.7        | 2.5        | 12       | 0.2        | 0.5        | 0.3        | 58       | 0.15      | 0.033      |



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September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 111789 | 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.  |
| ECH 111779 | Soil                             | 11    | 42    | 0.70  | 202   | 0.083 | <1    | 1.97  | 0.014 | 0.16  | 0.2   | 0.03  | 3.1   | 0.3   | <0.05 | 6     | 0.5   | 0.5   |
| ECH 111771 | Soil                             | 12    | 32    | 0.53  | 124   | 0.079 | 1     | 1.85  | 0.012 | 0.10  | 0.1   | 0.04  | 3.0   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85576  | Soil                             | 21    | 24    | 0.53  | 151   | 0.124 | 1     | 1.60  | 0.013 | 0.22  | 0.1   | 0.02  | 3.8   | 0.4   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 85581  | Soil                             | 12    | 12    | 0.52  | 196   | 0.114 | <1    | 1.77  | 0.008 | 0.46  | <0.1  | <0.01 | 3.3   | 0.6   | <0.05 | 7     | <0.5  | 0.5   |
| ECH 85702  | Soil                             | 14    | 25    | 0.48  | 109   | 0.073 | 1     | 1.62  | 0.011 | 0.09  | 0.1   | 0.03  | 2.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111775 | Soil                             | 20    | 41    | 0.86  | 216   | 0.086 | <1    | 2.24  | 0.042 | 0.27  | 0.2   | 0.02  | 8.5   | 0.4   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 85585  | Soil                             | 12    | 15    | 0.20  | 132   | 0.028 | <1    | 1.31  | 0.007 | 0.16  | <0.1  | 0.03  | 2.1   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85706  | Soil                             | 19    | 28    | 0.56  | 146   | 0.088 | <1    | 1.79  | 0.009 | 0.16  | 0.1   | 0.02  | 3.8   | 0.3   | <0.05 | 6     | <0.5  | 0.3   |
| ECH 111838 | Soil                             | 24    | 27    | 0.36  | 151   | 0.082 | <1    | 1.30  | 0.013 | 0.10  | 0.2   | 0.03  | 4.1   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111837 | Soil                             | 14    | 28    | 0.46  | 97    | 0.082 | <1    | 1.60  | 0.010 | 0.11  | 0.5   | 0.03  | 3.1   | 0.2   | <0.05 | 5     | <0.5  | 0.2   |
| ECH 111790 | Soil                             | 19    | 30    | 0.51  | 173   | 0.106 | <1    | 1.48  | 0.013 | 0.22  | 0.2   | 0.02  | 4.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85697  | Soil                             | 14    | 20    | 0.29  | 103   | 0.050 | <1    | 1.25  | 0.011 | 0.08  | 0.1   | 0.03  | 2.4   | 0.1   | <0.05 | 4     | <0.5  | 0.2   |
| ECH 85583  | Soil                             | 12    | 21    | 0.40  | 119   | 0.062 | <1    | 1.61  | 0.008 | 0.12  | 0.1   | 0.03  | 2.9   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 111841 | Soil                             | 19    | 36    | 0.59  | 187   | 0.099 | 1     | 1.69  | 0.012 | 0.18  | 0.3   | 0.03  | 4.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111839 | Soil                             | 10    | 28    | 0.50  | 109   | 0.074 | 1     | 2.11  | 0.010 | 0.07  | 0.2   | 0.04  | 2.8   | 0.1   | <0.05 | 5     | <0.5  | 0.3   |
| ECH 128512 | Soil                             | 11    | 30    | 0.52  | 96    | 0.074 | 1     | 1.73  | 0.011 | 0.11  | 0.2   | 0.04  | 2.8   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128515 | Soil                             | 10    | 27    | 0.38  | 68    | 0.069 | <1    | 2.23  | 0.006 | 0.08  | 0.1   | 0.04  | 2.5   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85690  | Soil                             | 10    | 26    | 0.47  | 76    | 0.071 | 1     | 1.85  | 0.011 | 0.06  | 0.2   | 0.05  | 2.2   | 0.1   | <0.05 | 5     | 0.6   | <0.2  |
| ECH 85688  | Soil                             | 13    | 26    | 0.47  | 120   | 0.059 | 1     | 1.69  | 0.012 | 0.06  | 0.1   | 0.03  | 2.3   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 128513 | Soil                             | 10    | 26    | 0.43  | 55    | 0.067 | 1     | 1.75  | 0.010 | 0.07  | 0.2   | 0.04  | 2.1   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128516 | Soil                             | 19    | 28    | 0.50  | 70    | 0.096 | 1     | 1.83  | 0.012 | 0.24  | 0.1   | 0.02  | 3.3   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128510 | Soil                             | 10    | 28    | 0.47  | 86    | 0.080 | 1     | 1.95  | 0.010 | 0.07  | 0.2   | 0.04  | 2.3   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128518 | Soil                             | 19    | 52    | 0.93  | 223   | 0.178 | 1     | 2.18  | 0.023 | 0.60  | 0.2   | 0.03  | 5.6   | 0.5   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 85684  | Soil                             | 15    | 17    | 0.35  | 88    | 0.058 | <1    | 1.62  | 0.010 | 0.14  | 0.1   | 0.03  | 1.8   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85694  | Soil                             | 12    | 27    | 0.51  | 107   | 0.089 | 1     | 1.68  | 0.016 | 0.07  | 0.2   | 0.03  | 2.6   | 0.1   | <0.05 | 5     | 0.5   | <0.2  |
| ECH 85689  | Soil                             | 8     | 27    | 0.39  | 75    | 0.072 | <1    | 2.01  | 0.011 | 0.04  | 0.2   | 0.06  | 2.0   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 128514 | Soil                             | 16    | 23    | 0.44  | 98    | 0.106 | <1    | 1.51  | 0.012 | 0.22  | <0.1  | 0.03  | 2.8   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85691  | Soil                             | 10    | 27    | 0.48  | 100   | 0.076 | 1     | 1.94  | 0.012 | 0.05  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85685  | Soil                             | 9     | 28    | 0.52  | 89    | 0.077 | 1     | 2.02  | 0.013 | 0.05  | 0.2   | 0.04  | 2.4   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |



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**Project:** ECH  
**Report Date:** September 02, 2010

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## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
|            |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
|            |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |
| ECH 85687  | Soil                             | 0.9   | 18.3  | 11.5  | 59    | <0.1  | 21.8  | 8.7   | 368   | 2.58  | 7.1   | 0.7   | 2.4   | 1.8   | 12    | 0.1   | 0.5   | 0.2   | 58    | 0.16  | 0.041 |
| ECH 85695  | Soil                             | 0.9   | 16.2  | 13.3  | 64    | <0.1  | 18.6  | 7.7   | 386   | 2.76  | 7.7   | 2.0   | 3.5   | 2.5   | 11    | 0.2   | 0.5   | 0.3   | 64    | 0.14  | 0.058 |
| ECH 128517 | Soil                             | 0.6   | 12.3  | 7.3   | 44    | <0.1  | 19.4  | 7.6   | 207   | 2.23  | 4.8   | 1.1   | 0.9   | 3.5   | 11    | 0.1   | 0.3   | 0.2   | 44    | 0.17  | 0.035 |
| ECH 85686  | Soil                             | 0.6   | 23.2  | 7.8   | 59    | <0.1  | 23.9  | 8.6   | 477   | 2.26  | 5.7   | 5.7   | 6.0   | 3.8   | 15    | 0.2   | 0.4   | 0.3   | 50    | 0.27  | 0.078 |



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**Project:** ECH  
**Report Date:** September 02, 2010

**Page:** 12 of 12 Part 2

## CERTIFICATE OF ANALYSIS

WHI10000265.1

|            | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|            |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|            |                                  | 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   |
| ECH 85687  | Soil                             | 9     | 27    | 0.44  | 77    | 0.073 | 1     | 1.81  | 0.011 | 0.05  | 0.2   | 0.05  | 2.1   | <0.1  | <0.05 | 6     | <0.5  | <0.2  |
| ECH 85695  | Soil                             | 10    | 27    | 0.38  | 77    | 0.082 | 1     | 1.97  | 0.009 | 0.06  | 0.2   | 0.05  | 2.2   | 0.1   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 128517 | Soil                             | 10    | 28    | 0.53  | 67    | 0.092 | <1    | 2.06  | 0.011 | 0.11  | 0.1   | 0.03  | 2.6   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85686  | Soil                             | 12    | 25    | 0.43  | 108   | 0.086 | <1    | 1.63  | 0.016 | 0.06  | 0.1   | 0.03  | 2.5   | <0.1  | <0.05 | 4     | <0.5  | <0.2  |



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Project: ECH  
Report Date: September 02, 2010

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## QUALITY CONTROL REPORT

WHI10000265.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    |
|                 |                                  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     |
| Pulp Duplicates |                                  | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  |
| ECH 128525      | Soil                             | 0.9   | 18.3  | 8.6   | 67    | <0.1  | 22.8  | 12.1  | 464   | 2.97  | 5.6   | 2.5   | 4.3   | 5.0   | 15    | 0.2   | 0.3   | 0.3   | 64    | 0.27  |
| REP ECH 128525  | QC                               | 0.9   | 18.6  | 8.6   | 70    | <0.1  | 23.8  | 12.1  | 471   | 3.00  | 6.0   | 2.8   | 3.1   | 5.3   | 16    | 0.2   | 0.3   | 0.3   | 69    | 0.28  |
| ECH 85701       | Soil                             | 0.5   | 14.1  | 11.4  | 57    | <0.1  | 16.1  | 7.1   | 249   | 1.91  | 3.5   | 3.9   | 1.6   | 5.2   | 15    | 0.1   | 0.3   | 0.3   | 48    | 0.27  |
| REP ECH 85701   | QC                               | 0.5   | 13.8  | 12.2  | 56    | <0.1  | 15.9  | 7.0   | 248   | 1.91  | 3.8   | 3.8   | 3.9   | 5.3   | 15    | 0.1   | 0.3   | 0.3   | 49    | 0.27  |
| ECH 128506      | Soil                             | 0.5   | 17.2  | 5.3   | 53    | <0.1  | 20.2  | 8.7   | 483   | 2.29  | 4.5   | 3.0   | 7.2   | 7.1   | 15    | 0.2   | 0.3   | 0.2   | 52    | 0.30  |
| REP ECH 128506  | QC                               | 0.6   | 17.9  | 5.2   | 53    | <0.1  | 19.9  | 8.6   | 469   | 2.26  | 4.5   | 2.8   | 2.2   | 7.0   | 16    | 0.2   | 0.3   | 0.5   | 51    | 0.30  |
| ECH 128508      | Soil                             | 1.5   | 11.1  | 10.4  | 50    | <0.1  | 18.5  | 8.3   | 446   | 2.24  | 3.9   | 4.0   | 3.3   | 5.3   | 13    | 0.1   | 0.3   | 0.4   | 54    | 0.17  |
| REP ECH 128508  | QC                               | 1.5   | 11.0  | 10.6  | 52    | <0.1  | 19.2  | 8.6   | 440   | 2.27  | 4.0   | 4.2   | 2.8   | 5.5   | 12    | 0.1   | 0.3   | 0.4   | 55    | 0.18  |
| ECH 111584      | Soil                             | 0.2   | 9.5   | 13.2  | 82    | <0.1  | 9.4   | 7.2   | 470   | 2.32  | 1.4   | 3.6   | <0.5  | 6.7   | 16    | <0.1  | 0.3   | 0.5   | 40    | 0.36  |
| REP ECH 111584  | QC                               | 0.3   | 9.6   | 12.9  | 80    | <0.1  | 9.3   | 7.0   | 468   | 2.36  | 1.5   | 3.5   | 1.7   | 6.8   | 16    | 0.1   | 0.3   | 0.5   | 38    | 0.38  |
| ECH 111978      | Soil                             | 0.5   | 18.0  | 9.2   | 66    | <0.1  | 20.0  | 8.6   | 545   | 2.34  | 4.8   | 3.8   | 1.7   | 4.5   | 17    | 0.2   | 0.3   | 0.4   | 51    | 0.21  |
| REP ECH 111978  | QC                               | 0.5   | 17.7  | 9.0   | 66    | <0.1  | 20.4  | 9.1   | 531   | 2.34  | 4.7   | 3.8   | 2.8   | 4.3   | 16    | 0.2   | 0.3   | 0.3   | 50    | 0.22  |
| ECH 85610       | Soil                             | 0.7   | 19.5  | 13.0  | 58    | <0.1  | 17.6  | 6.6   | 159   | 2.20  | 7.1   | 4.9   | 3.4   | 2.1   | 14    | 0.2   | 0.5   | 0.4   | 53    | 0.21  |
| REP ECH 85610   | QC                               | 0.7   | 20.0  | 13.2  | 56    | <0.1  | 18.0  | 6.7   | 164   | 2.31  | 7.2   | 4.8   | 4.7   | 2.1   | 15    | 0.2   | 0.5   | 0.4   | 54    | 0.22  |
| ECH 128501      | Soil                             | 0.7   | 23.4  | 7.3   | 69    | <0.1  | 23.5  | 11.0  | 558   | 2.81  | 5.8   | 3.9   | 1.2   | 5.7   | 15    | 0.3   | 0.3   | 0.2   | 56    | 0.30  |
| REP ECH 128501  | QC                               | 0.8   | 23.5  | 7.8   | 71    | <0.1  | 24.7  | 10.8  | 570   | 2.89  | 5.7   | 4.1   | 2.5   | 6.0   | 16    | 0.2   | 0.3   | 0.3   | 57    | 0.32  |
| ECH 105714      | Soil                             | 0.8   | 20.0  | 14.3  | 58    | <0.1  | 22.3  | 10.0  | 423   | 3.09  | 8.0   | 2.9   | 1.7   | 7.0   | 21    | <0.1  | 0.5   | 0.3   | 59    | 0.29  |
| REP ECH 105714  | QC                               | 0.7   | 20.7  | 14.7  | 58    | <0.1  | 23.7  | 10.4  | 426   | 3.07  | 7.8   | 2.8   | 3.1   | 7.0   | 21    | <0.1  | 0.5   | 0.3   | 62    | 0.29  |
| ECH 85613       | Soil                             | 0.4   | 12.3  | 11.5  | 48    | <0.1  | 15.2  | 5.6   | 161   | 1.96  | 3.7   | 4.1   | 3.4   | 2.5   | 16    | 0.2   | 0.4   | 0.8   | 51    | 0.22  |
| REP ECH 85613   | QC                               | 0.4   | 11.1  | 12.1  | 46    | <0.1  | 15.6  | 5.5   | 163   | 1.90  | 3.7   | 4.3   | 6.6   | 2.9   | 16    | <0.1  | 0.4   | 0.9   | 52    | 0.22  |
| ECH 85626       | Soil                             | 0.5   | 8.0   | 12.2  | 41    | <0.1  | 12.3  | 5.4   | 236   | 1.99  | 4.7   | 1.5   | 2.5   | 3.4   | 13    | 0.2   | 0.2   | 1.2   | 44    | 0.16  |
| REP ECH 85626   | QC                               | 0.5   | 8.1   | 11.5  | 42    | <0.1  | 12.2  | 5.1   | 239   | 2.01  | 4.7   | 1.5   | 1.1   | 3.4   | 14    | 0.2   | 0.2   | 1.1   | 47    | 0.18  |
| ECH 85605       | Soil                             | 0.3   | 15.3  | 15.0  | 58    | <0.1  | 12.7  | 7.0   | 465   | 2.06  | 2.5   | 3.9   | 1.5   | 5.6   | 14    | <0.1  | 0.2   | 0.3   | 43    | 0.27  |
| REP ECH 85605   | QC                               | 0.4   | 15.9  | 15.7  | 59    | <0.1  | 13.1  | 7.0   | 462   | 2.07  | 2.6   | 3.9   | 1.0   | 5.5   | 14    | 0.1   | 0.2   | 0.3   | 41    | 0.27  |
| ECH 111583      | Soil                             | 0.2   | 32.5  | 21.2  | 35    | <0.1  | 34.7  | 6.4   | 124   | 1.55  | 4.4   | 15.2  | 1.3   | 6.9   | 16    | 0.2   | 1.1   | 0.4   | 41    | 0.18  |
| REP ECH 111583  | QC                               | 0.2   | 30.7  | 20.8  | 35    | 0.1   | 33.6  | 6.5   | 128   | 1.50  | 4.2   | 15.4  | 1.6   | 6.8   | 15    | 0.2   | 1.0   | 0.4   | 41    | 0.18  |
| ECH 111802      | Soil                             | 1.3   | 7.8   | 11.3  | 43    | <0.1  | 12.5  | 7.5   | 581   | 2.18  | 4.2   | 1.7   | 1.9   | 5.4   | 14    | 0.2   | 0.3   | 0.3   | 60    | 0.19  |
| REP ECH 111802  | QC                               | 1.4   | 8.7   | 11.8  | 44    | <0.1  | 13.1  | 7.7   | 616   | 2.25  | 4.4   | 1.8   | 0.8   | 5.0   | 14    | 0.2   | 0.3   | 0.3   | 61    | 0.18  |



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Project: ECH  
Report Date: September 02, 2010

Page: 1 of 2 Part 2

## QUALITY CONTROL REPORT

WHI10000265.1

|                 | Method<br>Analyte<br>Unit<br>MDL | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 |                                  | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    | Te    |
|                 |                                  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppm   |
|                 |                                  | 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 |                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| ECH 128525      | Soil                             | 14    | 41    | 0.78  | 219   | 0.130 | 1     | 1.93  | 0.015 | 0.25  | 0.4   | 0.02  | 3.1   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| REP ECH 128525  | QC                               | 14    | 42    | 0.78  | 226   | 0.142 | <1    | 1.96  | 0.012 | 0.26  | 0.3   | 0.03  | 3.3   | 0.3   | <0.05 | 8     | <0.5  | <0.2  |
| ECH 85701       | Soil                             | 14    | 23    | 0.42  | 102   | 0.090 | 1     | 1.43  | 0.012 | 0.09  | 0.1   | 0.05  | 2.4   | 0.1   | <0.05 | 5     | <0.5  | 0.3   |
| REP ECH 85701   | QC                               | 14    | 24    | 0.42  | 99    | 0.090 | <1    | 1.44  | 0.012 | 0.10  | <0.1  | 0.03  | 2.4   | 0.2   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 128506      | Soil                             | 17    | 26    | 0.64  | 133   | 0.119 | 1     | 1.52  | 0.016 | 0.24  | 0.3   | 0.02  | 2.9   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| REP ECH 128506  | QC                               | 17    | 27    | 0.63  | 122   | 0.114 | 1     | 1.52  | 0.017 | 0.24  | 0.3   | 0.02  | 2.8   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 128508      | Soil                             | 15    | 29    | 0.61  | 139   | 0.122 | 1     | 1.61  | 0.012 | 0.20  | 0.5   | 0.03  | 2.7   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| REP ECH 128508  | QC                               | 14    | 29    | 0.63  | 141   | 0.119 | <1    | 1.72  | 0.012 | 0.20  | 0.4   | 0.03  | 2.8   | 0.3   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 111584      | Soil                             | 18    | 14    | 0.70  | 118   | 0.090 | <1    | 2.02  | 0.009 | 0.61  | 0.1   | 0.01  | 3.8   | 0.8   | <0.05 | 10    | <0.5  | <0.2  |
| REP ECH 111584  | QC                               | 18    | 14    | 0.70  | 120   | 0.089 | <1    | 2.07  | 0.009 | 0.61  | 0.1   | 0.01  | 3.9   | 0.9   | <0.05 | 10    | <0.5  | <0.2  |
| ECH 111978      | Soil                             | 12    | 25    | 0.47  | 114   | 0.105 | <1    | 1.66  | 0.012 | 0.13  | 0.2   | 0.02  | 3.0   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| REP ECH 111978  | QC                               | 12    | 25    | 0.47  | 117   | 0.105 | 1     | 1.69  | 0.014 | 0.14  | 0.2   | 0.01  | 3.1   | 0.3   | <0.05 | 6     | 0.7   | <0.2  |
| ECH 85610       | Soil                             | 11    | 29    | 0.47  | 111   | 0.054 | <1    | 2.12  | 0.009 | 0.06  | <0.1  | 0.05  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | 0.2   |
| REP ECH 85610   | QC                               | 11    | 31    | 0.48  | 111   | 0.060 | <1    | 2.12  | 0.009 | 0.06  | 0.1   | 0.03  | 2.7   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 128501      | Soil                             | 15    | 29    | 0.64  | 146   | 0.119 | <1    | 1.91  | 0.016 | 0.26  | 0.2   | 0.02  | 3.4   | 0.3   | <0.05 | 6     | 0.7   | 0.2   |
| REP ECH 128501  | QC                               | 16    | 28    | 0.64  | 151   | 0.124 | <1    | 1.85  | 0.014 | 0.26  | 0.2   | 0.02  | 3.5   | 0.4   | <0.05 | 7     | 0.6   | 0.2   |
| ECH 105714      | Soil                             | 16    | 34    | 0.58  | 163   | 0.108 | 2     | 2.10  | 0.014 | 0.14  | 0.2   | 0.02  | 4.5   | 0.2   | <0.05 | 6     | <0.5  | <0.2  |
| REP ECH 105714  | QC                               | 16    | 35    | 0.60  | 158   | 0.108 | 2     | 2.13  | 0.012 | 0.14  | 0.2   | 0.03  | 4.3   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| ECH 85613       | Soil                             | 12    | 28    | 0.43  | 112   | 0.084 | <1    | 1.70  | 0.011 | 0.07  | 0.1   | 0.03  | 3.1   | 0.1   | <0.05 | 6     | 0.6   | <0.2  |
| REP ECH 85613   | QC                               | 11    | 29    | 0.45  | 109   | 0.081 | 1     | 1.68  | 0.012 | 0.08  | 0.1   | 0.03  | 3.0   | 0.2   | <0.05 | 6     | 0.5   | <0.2  |
| ECH 85626       | Soil                             | 9     | 20    | 0.35  | 74    | 0.075 | 1     | 1.09  | 0.014 | 0.12  | 0.2   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| REP ECH 85626   | QC                               | 9     | 20    | 0.35  | 77    | 0.077 | <1    | 1.09  | 0.030 | 0.12  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 5     | <0.5  | <0.2  |
| ECH 85605       | Soil                             | 14    | 18    | 0.41  | 106   | 0.093 | <1    | 1.52  | 0.015 | 0.25  | 0.1   | 0.02  | 2.6   | 0.3   | <0.05 | 5     | <0.5  | <0.2  |
| REP ECH 85605   | QC                               | 14    | 19    | 0.41  | 107   | 0.093 | <1    | 1.55  | 0.016 | 0.23  | 0.1   | 0.03  | 2.6   | 0.3   | <0.05 | 6     | <0.5  | <0.2  |
| ECH 111583      | Soil                             | 20    | 61    | 0.55  | 136   | 0.063 | <1    | 1.63  | 0.009 | 0.14  | <0.1  | 0.07  | 6.1   | 0.3   | 0.05  | 6     | <0.5  | <0.2  |
| REP ECH 111583  | QC                               | 19    | 62    | 0.58  | 131   | 0.061 | 1     | 1.65  | 0.009 | 0.14  | <0.1  | 0.07  | 6.0   | 0.3   | 0.05  | 5     | <0.5  | <0.2  |
| ECH 111802      | Soil                             | 16    | 25    | 0.35  | 87    | 0.103 | 2     | 1.19  | 0.013 | 0.18  | 0.1   | 0.04  | 2.4   | 0.2   | <0.05 | 7     | <0.5  | <0.2  |
| REP ECH 111802  | QC                               | 17    | 24    | 0.37  | 92    | 0.106 | 2     | 1.23  | 0.014 | 0.19  | 0.2   | 0.05  | 2.6   | 0.2   | 0.05  | 7     | <0.5  | <0.2  |



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Project: ECH  
Report Date: September 02, 2010

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## QUALITY CONTROL REPORT

WHI10000265.1

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                     |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P      |
|                     |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %      |
|                     |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001  |
| ECH 85582           | Soil     | 0.7   | 18.8  | 14.9  | 61    | 0.1   | 18.1  | 8.4   | 494   | 2.41  | 6.2   | 14.5  | 4.6   | 3.1   | 12    | 0.2   | 0.4   | 0.8   | 50    | 0.17  | 0.062  |
| REP ECH 85582       | QC       | 0.7   | 18.3  | 15.1  | 64    | <0.1  | 18.6  | 8.4   | 496   | 2.43  | 6.7   | 14.6  | 8.8   | 3.0   | 13    | 0.2   | 0.4   | 0.8   | 52    | 0.17  | 0.065  |
| ECH 111841          | Soil     | 0.7   | 21.2  | 10.6  | 56    | <0.1  | 24.1  | 11.7  | 333   | 2.86  | 5.2   | 4.6   | 2.5   | 7.4   | 18    | 0.1   | 0.4   | 0.3   | 60    | 0.27  | 0.059  |
| REP ECH 111841      | QC       | 0.7   | 21.4  | 10.8  | 56    | <0.1  | 23.4  | 11.3  | 331   | 2.78  | 5.1   | 4.8   | 1.7   | 7.6   | 19    | 0.2   | 0.4   | 0.3   | 60    | 0.28  | 0.061  |
| ECH 128514          | Soil     | 0.2   | 8.8   | 9.4   | 40    | <0.1  | 12.7  | 4.3   | 159   | 1.51  | 1.5   | 4.8   | 3.8   | 6.3   | 13    | 0.1   | 0.3   | 0.2   | 35    | 0.23  | 0.054  |
| REP ECH 128514      | QC       | 0.2   | 9.0   | 9.8   | 41    | <0.1  | 12.3  | 4.3   | 157   | 1.51  | 1.4   | 5.0   | 2.6   | 6.5   | 13    | 0.1   | 0.3   | 0.2   | 35    | 0.23  | 0.056  |
| ECH 128517          | Soil     | 0.6   | 12.3  | 7.3   | 44    | <0.1  | 19.4  | 7.6   | 207   | 2.23  | 4.8   | 1.1   | 0.9   | 3.5   | 11    | 0.1   | 0.3   | 0.2   | 44    | 0.17  | 0.035  |
| REP ECH 128517      | QC       | 0.7   | 12.5  | 7.3   | 45    | <0.1  | 19.8  | 7.6   | 209   | 2.21  | 4.8   | 1.2   | 1.1   | 3.7   | 12    | 0.1   | 0.3   | 0.2   | 43    | 0.17  | 0.034  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 20.5  | 110.9 | 67.5  | 405   | 1.0   | 54.0  | 9.3   | 645   | 2.45  | 55.0  | 5.0   | 79.8  | 4.9   | 75    | 6.7   | 6.4   | 4.8   | 86    | 0.98  | 0.080  |
| STD DS7             | Standard | 20.7  | 113.6 | 61.5  | 392   | 0.9   | 57.5  | 9.9   | 644   | 2.40  | 49.0  | 4.4   | 69.5  | 4.3   | 68    | 6.2   | 5.6   | 4.4   | 89    | 0.97  | 0.073  |
| STD DS7             | Standard | 19.6  | 114.6 | 65.4  | 403   | 1.0   | 57.9  | 9.8   | 637   | 2.42  | 51.4  | 4.6   | 61.3  | 4.3   | 65    | 6.1   | 5.6   | 4.4   | 86    | 0.94  | 0.075  |
| STD DS7             | Standard | 19.4  | 96.2  | 61.3  | 347   | 1.0   | 50.7  | 8.3   | 586   | 2.16  | 47.1  | 4.2   | 63.9  | 4.3   | 65    | 5.8   | 5.0   | 4.1   | 80    | 0.83  | 0.073  |
| STD DS7             | Standard | 21.6  | 116.7 | 64.9  | 407   | 0.9   | 56.8  | 9.7   | 652   | 2.49  | 54.8  | 4.7   | 72.4  | 4.4   | 71    | 6.4   | 6.3   | 4.4   | 89    | 0.97  | 0.078  |
| STD DS7             | Standard | 22.4  | 124.3 | 66.6  | 421   | 1.0   | 59.3  | 10.3  | 690   | 2.61  | 55.0  | 4.7   | 75.1  | 4.5   | 77    | 7.1   | 6.4   | 4.7   | 90    | 1.05  | 0.087  |
| STD DS7             | Standard | 24.0  | 114.2 | 71.2  | 434   | 1.0   | 60.6  | 10.4  | 670   | 2.59  | 56.8  | 4.9   | 73.7  | 4.9   | 82    | 6.7   | 6.6   | 4.9   | 98    | 1.06  | 0.086  |
| STD DS7             | Standard | 18.7  | 116.0 | 65.9  | 410   | 0.9   | 56.7  | 9.5   | 636   | 2.46  | 52.3  | 4.7   | 71.0  | 4.3   | 74    | 5.5   | 5.5   | 4.2   | 84    | 1.01  | 0.080  |
| STD DS7             | Standard | 19.1  | 107.8 | 59.5  | 387   | 1.0   | 55.5  | 8.8   | 636   | 2.41  | 48.7  | 4.0   | 82.7  | 3.9   | 68    | 6.2   | 5.1   | 4.2   | 85    | 0.92  | 0.072  |
| STD DS7 Expected    |          | 20.5  | 109   | 70.6  | 411   | 0.9   | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 69    | 6.4   | 4.6   | 4.5   | 84    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | 0.01  | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |



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## QUALITY CONTROL REPORT

WHI10000265.1

|                     |          | 1DX15<br>La<br>ppm<br>1 | 1DX15<br>Cr<br>ppm<br>1 | 1DX15<br>Mg<br>%<br>0.01 | 1DX15<br>Ba<br>ppm<br>1 | 1DX15<br>Ti<br>%<br>0.001 | 1DX15<br>B<br>ppm<br>1 | 1DX15<br>Al<br>%<br>0.01 | 1DX15<br>Na<br>%<br>0.001 | 1DX15<br>K<br>%<br>0.01 | 1DX15<br>W<br>ppm<br>0.1 | 1DX15<br>Hg<br>ppm<br>0.01 | 1DX15<br>Sc<br>ppm<br>0.1 | 1DX15<br>Ti<br>ppm<br>0.1 | 1DX15<br>S<br>%<br>0.05 | 1DX15<br>Ga<br>ppm<br>1 | 1DX15<br>Se<br>ppm<br>0.5 | 1DX15<br>Te<br>ppm<br>0.2 |
|---------------------|----------|-------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|--------------------------|---------------------------|-------------------------|--------------------------|----------------------------|---------------------------|---------------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| ECH 85582           | Soil     | 11                      | 25                      | 0.45                     | 136                     | 0.053                     | 2                      | 1.74                     | 0.009                     | 0.06                    | 0.1                      | 0.04                       | 2.9                       | 0.2                       | <0.05                   | 5                       | <0.5                      | <0.2                      |
| REP ECH 85582       | QC       | 11                      | 26                      | 0.44                     | 138                     | 0.051                     | 1                      | 1.77                     | 0.008                     | 0.07                    | 0.2                      | 0.03                       | 2.8                       | 0.2                       | <0.05                   | 5                       | <0.5                      | 0.3                       |
| ECH 111841          | Soil     | 19                      | 36                      | 0.59                     | 187                     | 0.099                     | 1                      | 1.69                     | 0.012                     | 0.18                    | 0.3                      | 0.03                       | 4.8                       | 0.2                       | <0.05                   | 6                       | <0.5                      | <0.2                      |
| REP ECH 111841      | QC       | 19                      | 35                      | 0.58                     | 186                     | 0.105                     | <1                     | 1.65                     | 0.012                     | 0.17                    | 0.2                      | 0.03                       | 5.1                       | 0.2                       | <0.05                   | 6                       | <0.5                      | <0.2                      |
| ECH 128514          | Soil     | 16                      | 23                      | 0.44                     | 98                      | 0.106                     | <1                     | 1.51                     | 0.012                     | 0.22                    | <0.1                     | 0.03                       | 2.8                       | 0.3                       | <0.05                   | 6                       | <0.5                      | <0.2                      |
| REP ECH 128514      | QC       | 17                      | 23                      | 0.45                     | 106                     | 0.110                     | <1                     | 1.53                     | 0.013                     | 0.22                    | 0.1                      | 0.04                       | 3.0                       | 0.3                       | <0.05                   | 6                       | <0.5                      | <0.2                      |
| ECH 128517          | Soil     | 10                      | 28                      | 0.53                     | 67                      | 0.092                     | <1                     | 2.06                     | 0.011                     | 0.11                    | 0.1                      | 0.03                       | 2.6                       | 0.2                       | <0.05                   | 5                       | <0.5                      | <0.2                      |
| REP ECH 128517      | QC       | 10                      | 29                      | 0.52                     | 67                      | 0.096                     | 1                      | 2.08                     | 0.012                     | 0.11                    | 0.2                      | 0.03                       | 2.6                       | 0.2                       | <0.05                   | 5                       | <0.5                      | <0.2                      |
| Reference Materials |          |                         |                         |                          |                         |                           |                        |                          |                           |                         |                          |                            |                           |                           |                         |                         |                           |                           |
| STD DS7             | Standard | 13                      | 189                     | 1.04                     | 396                     | 0.130                     | 38                     | 1.07                     | 0.098                     | 0.47                    | 3.7                      | 0.24                       | 2.6                       | 4.2                       | 0.20                    | 5                       | 3.3                       | 1.4                       |
| STD DS7             | Standard | 13                      | 198                     | 1.05                     | 394                     | 0.123                     | 38                     | 1.03                     | 0.096                     | 0.45                    | 3.4                      | 0.21                       | 2.5                       | 4.4                       | 0.21                    | 5                       | 2.9                       | 1.3                       |
| STD DS7             | Standard | 12                      | 189                     | 1.05                     | 391                     | 0.114                     | 38                     | 0.98                     | 0.096                     | 0.48                    | 3.6                      | 0.23                       | 2.5                       | 4.2                       | 0.20                    | 5                       | 3.3                       | 2.3                       |
| STD DS7             | Standard | 12                      | 177                     | 1.06                     | 381                     | 0.107                     | 37                     | 1.00                     | 0.091                     | 0.45                    | 3.1                      | 0.23                       | 2.1                       | 3.7                       | 0.17                    | 4                       | 3.2                       | 1.4                       |
| STD DS7             | Standard | 13                      | 190                     | 1.08                     | 413                     | 0.127                     | 42                     | 1.01                     | 0.093                     | 0.52                    | 3.6                      | 0.21                       | 2.6                       | 4.2                       | 0.21                    | 5                       | 3.5                       | 1.1                       |
| STD DS7             | Standard | 13                      | 197                     | 1.11                     | 420                     | 0.132                     | 43                     | 1.11                     | 0.099                     | 0.52                    | 4.2                      | 0.23                       | 2.9                       | 4.4                       | 0.23                    | 6                       | 3.7                       | 1.5                       |
| STD DS7             | Standard | 14                      | 221                     | 1.16                     | 442                     | 0.149                     | 42                     | 1.17                     | 0.112                     | 0.51                    | 4.0                      | 0.23                       | 3.0                       | 4.8                       | 0.21                    | 6                       | 4.3                       | 1.5                       |
| STD DS7             | Standard | 12                      | 191                     | 1.11                     | 363                     | 0.128                     | 43                     | 1.12                     | 0.107                     | 0.54                    | 3.4                      | 0.21                       | 2.9                       | 3.9                       | 0.16                    | 6                       | 3.3                       | 1.6                       |
| STD DS7             | Standard | 11                      | 190                     | 1.04                     | 387                     | 0.122                     | 37                     | 1.01                     | 0.100                     | 0.46                    | 3.5                      | 0.20                       | 2.3                       | 4.0                       | 0.21                    | 5                       | 3.2                       | 1.5                       |
| STD DS7 Expected    |          | 12                      | 179                     | 1.05                     | 410                     | 0.124                     | 39                     | 0.959                    | 0.089                     | 0.44                    | 3.4                      | 0.2                        | 2.5                       | 4.2                       | 0.19                    | 5                       | 3.5                       | 1.08                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |
| BLK                 | Blank    | <1                      | <1                      | <0.01                    | <1                      | <0.001                    | <1                     | <0.01                    | <0.001                    | <0.01                   | <0.1                     | <0.01                      | <0.1                      | <0.1                      | <0.05                   | <1                      | <0.5                      | <0.2                      |