

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]:

TOTAL COST: \$206,986.63

AUTHOR(S): Michael Galicki, Anna Andrzejewski SIGNATURE(S): \_\_\_\_\_  
Andrew Takahashi, Gwen Ditson

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-1-899 YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): \_\_\_\_\_

PROPERTY NAME: ZNT

CLAIM NAME(S) (on which the work was done): \_\_\_\_\_

ZNT 01 – ZNT 03, ZNT 05 – ZNT 09, ZNT 11, ZNT 14, ZNT 15, ZNT 20

COMMODITIES SOUGHT: Cu, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093L224, 093L226

MINING DIVISION: Omineca NTS/BCGS: NTS: 93L/10,11 BCGS: 093L.055,056,065,066

LATITUDE: 54 ° 37 ' \_\_\_\_\_ " LONGITUDE: -127 ° 01 ' \_\_\_\_\_ " (at centre of work)

OWNER(S):

1) Quartz Mountain Resources Ltd. 2) \_\_\_\_\_

MAILING ADDRESS:

1040 W. Georgia St. Vancouver BC, V6E 4H1, Canada 1040 W. Georgia St. Vancouver BC, V6E 4H8, Canada

OPERATOR(S) [who paid for the work]:

1) Quartz Mountain Resources Ltd. 2) \_\_\_\_\_

MAILING ADDRESS:

1040 W. Georgia St. Vancouver BC, V6E 4H1, Canada

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Stikine Terrane, Lower Jurassic volcanics and sediments, Hazelton Group, Skeena Group, Late Cretaceous Bulkley Pluton, undivided maroon tuffs, feldspar phyric andesite flows and volcanic breccia

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2508, 4808, 5156, 5162, 11582, 20391

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic			
Electromagnetic			
Induced Polarization	20 line km	ZNT 02, 03, 05, 06	\$67,168.80
Radiometric			
Seismic			
Other			
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil	2433 samples	ZNT 01- 03, 05 - 09, 11, 14 - 15, 20	\$139,060.30
Silt			
Rock	20 samples	ZNT 01- 03, 05 - 09, 11, 14 - 15, 20	\$757.56
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core			
Non-core			
<b>RELATED TECHNICAL</b>			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
<b>TOTAL COST:</b>			<b>\$206,986.66</b>

**Assessment Report on Geochemical and Geophysical Work**

**on the ZNT Claim Group**

Omineca Mining Division

**BC Geological Survey  
Assessment Report  
34152**

**Claims:**

ZNT 01 – ZNT 03, ZNT 05 – ZNT 09, ZNT 11, ZNT 14, ZNT 15, ZNT 20

**Tenure Numbers:**

999322, 999325, 999327, 999329, 999331, 999326, 999323, 999336,  
999328, 999338, 999337, 1013564

**Owner/ Operator:** Quartz Mountain Resources Ltd.

**NTS:** 93L/06,7,10,11,14,15

**BCGS:** 093L.036,45,46,55,56,65,66,76,87

Work program centered at approximately:

6,054,600 m N and 628,200 m E

UTM NAD 83, Zone 9

or

54° 62' N latitude, - 127° 01' W longitude

**Authors:**

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August 9, 2013

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## 1.0 SUMMARY

The ZNT property is situated 4 km south of the community of Telkwa in central British Columbia on NTS Map Sheets 93L/6,7,10,11,14,15. This report documents the results of soil and rock sampling along with induced polarization surveys performed on claims belonging to the ZNT property in 2012. The property is located along Highway #16 and the work area is accessible along secondary roads by vehicle.

The ZNT property consists of 21 mineral claims in the Omineca Mining Division. All of the claims are held 100% by Quartz Mountain Resources Ltd.

The property work area is dominated by Lower Jurassic calc-alkaline volcanic rocks of the Hazelton Group (Telkwa Formation). A three kilometer wide belt of coarse clastic sedimentary rocks of the Skeena Group (Red Rose Formation) trends northwesterly across the eastern portion of the claim area. Middle to Upper Cretaceous Bulkley Intrusions and coarse clastic sedimentary rocks of the Skeena Group (Kitsuns Creek Formation) occur at the western edge of the property.

The 2012 exploration program was designed to follow up on two anomalous glacial till samples published in a recent Geoscience BC report. First-pass reconnaissance soil sampling along existing roads indicated elevated Ag-Zn concentrations in soil proximal to one of the glacial till samples. The first-pass geochemical soil anomaly was subsequently followed up with a soil grid and an induced polarization geophysical survey.

The soil geochemical survey identified a 2 km x 1 km high-contrast Ag-Zn anomaly with coinciding anomalous trace element concentrations of Sb-As-Tl-Hg. The results of the IP survey identified two chargeability features: a 1.5 km x 1 km north-south trending chargeability anomaly at the northern portion of line 274+00E, and 500m west of it a second 500 m x 500 m chargeability anomaly. Both chargeability anomalies remain open to the north.

The presence of a chargeability anomaly and partly overlapping resistivity anomaly in conjunction with the Ag soil anomaly suggests a strong hydrothermal sulphide system is present within the surveyed area at ZNT. Upon completion of geological mapping of the surveyed areas, the centre of the IP chargeability and coincident geochemical soil anomaly should be drill-tested.

## **2.0 INTRODUCTION**

This report documents the results of soil and rock sampling along with induced polarization surveys performed on claims belonging to the ZNT property. The geochemical survey was conducted by Quartz Mountain Resources Ltd. between June 30 - July 1, 2012 and October 11 - 31, 2012. The induced polarization (IP) survey was conducted by Peter E. Walcott & Associates Ltd. between October 19, 2012 and November 3, 2012.

## **3.0 LOCATION AND ACCESS**

The ZNT property is situated in central British Columbia, in the Omineca Mining Division. The property is located along Highway #16 (Yellowhead Highway), 4 km south of the community of Telkwa. The property work area is centred near coordinates 54°37' North Latitude, -127°0' West Longitude; or UTM NAD 83, Zone 9, at 6054600 m N and 628200 m E (Figure 1). The property is easily accessible by secondary roads off Highway #16. An overhead power line bisects the work area.

Accommodation for the ZNT project was based out of the Aspen Inn, located off of Highway 16 in Smithers, B.C. Field crews were mobilized to target areas by truck via highway and secondary roads with driving times being approximately 30 minutes.

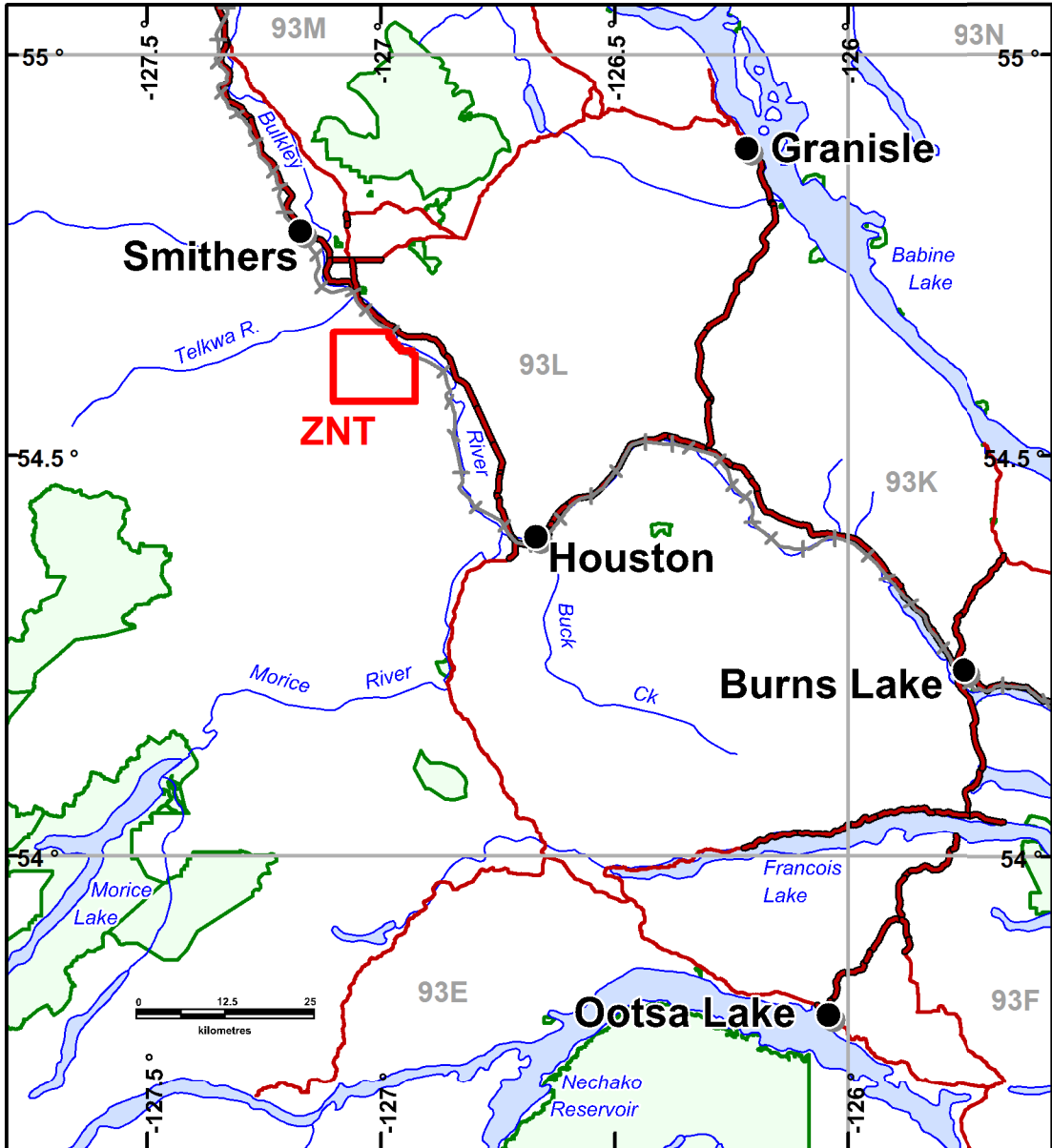
## **4.0 PHYSIOGRAPHY AND CLIMATE**

The ZNT property is located in the Skeena Stikine Forest District of the Northern Interior Forest Region. Topography is moderate in the northern half of the property and is more pronounced in the southern portion. Elevations range from 620 m ASL at the northern edge of the work grid to 970 m ASL at the southern edge.

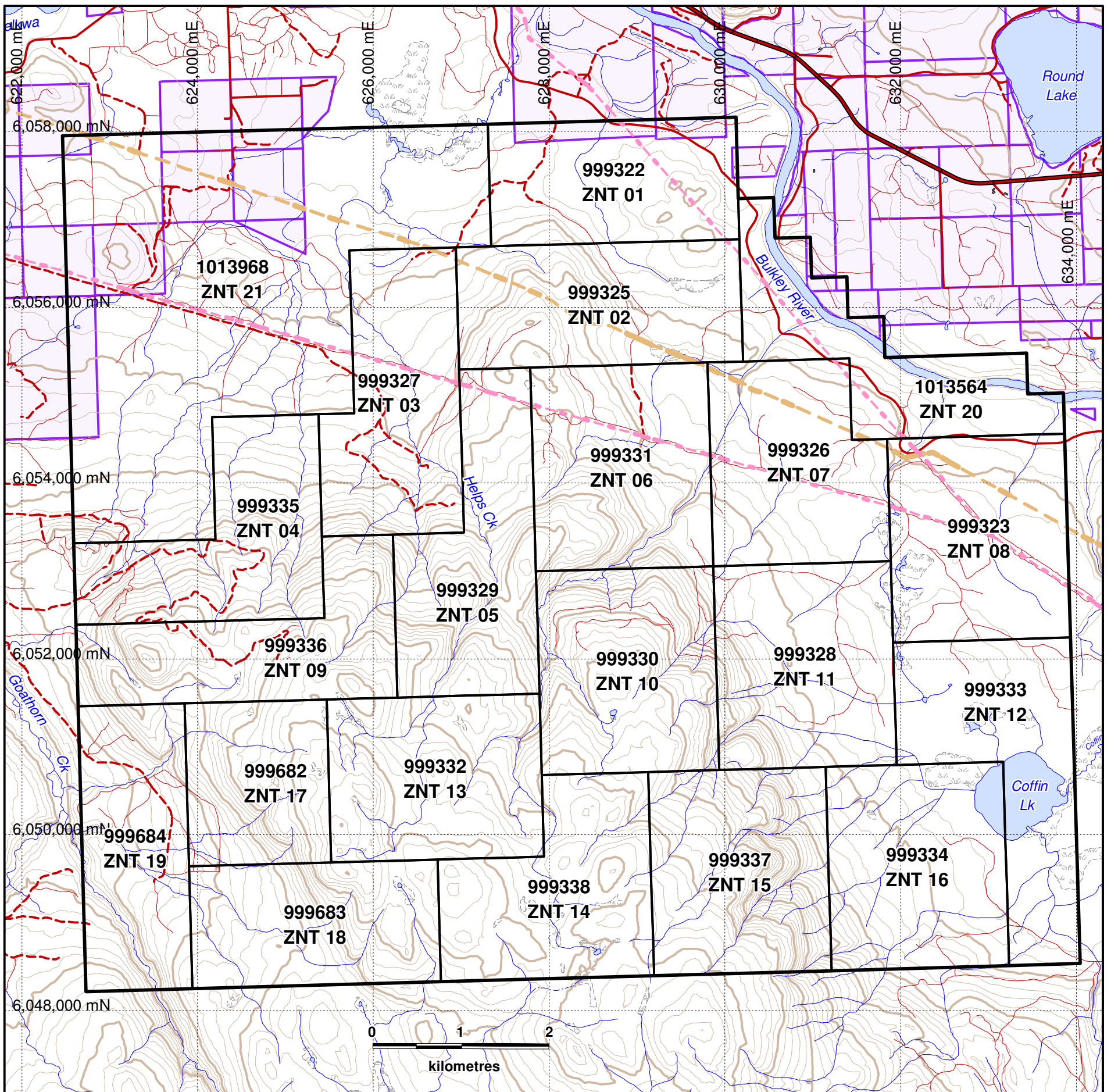
Average temperatures in Smithers are 21°C in summer and -11°C in winter, annual rainfall averaging 35.4 cm and annual snowfall averaging 204 cm (The Weather Network Statistics, website: <http://www.theweathernetwork.com/statistics/cl1077500>).

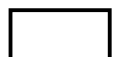
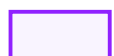


## **5.0 CLAIMS**

The ZNT property consists of 21 mineral claims in the Omineca Mining Division comprising an area of approximately 10,130 hectares shown in Figure 2. All of the claims are held 100% by Quartz Mountain Resources Ltd. and are listed in Table 1.



<p><b>HDI QUARTZ MOUNTAIN</b></p> <p><b>ZNT</b></p> <p><b>Regional Location</b></p>		
<p>NTS: 93L/10,11</p>		<p>Scale: 1 : 1,000,000</p>
<p>Date: July 2, 2013</p>		<p>Plotted by : GMD</p>
<p>ZNT_AR_Loco1000k_July0213.WOR UTM NAD83, Zone 9</p>		<p><b>Figure 1</b></p>



-  Claim boundary
-  Private land
-  Power line
-  Pipeline



**HDI QUARTZ MOUNTAIN**

## ZNT Claims

NTS: 93L/10,11 BCGS: 93L.055,56,65,66

Scale: 1 : 50,000

Date: July 2, 2013

Plotted by : GMD

ZNT\_AR\_Claims\_July0213.WOR  
UTM NAD83, Zone 9

**Figure 2**

**Table 1: Claims Owned 100% by Quartz Mountain Resources Ltd.**

Tenure Number	Claim Name	Work	Owner	Issue Date	Expiry Date	Area (ha)
999322	ZNT 01	x	258728 (100%)	2012/jun/20	2013/jun/20	393.0013
999325	ZNT 02	x	258728 (100%)	2012/jun/20	2013/jun/20	449.2761
999327	ZNT 03	x	258728 (100%)	2012/jun/20	2013/jun/20	449.3711
999335	ZNT 04		258728 (100%)	2012/jun/20	2013/jun/20	430.7954
999329	ZNT 05	x	258728 (100%)	2012/jun/20	2013/jun/20	449.543
999331	ZNT 06	x	258728 (100%)	2012/jun/20	2013/jun/20	468.18
999326	ZNT 07	x	258728 (100%)	2012/jun/20	2013/jun/20	430.7395
999323	ZNT 08	x	258728 (100%)	2012/jun/20	2013/jun/20	468.2775
999336	ZNT 09	x	258728 (100%)	2012/jun/20	2013/jun/20	412.1714
999330	ZNT 10		258728 (100%)	2012/jun/20	2013/jun/20	468.4096
999328	ZNT 11	x	258728 (100%)	2012/jun/20	2013/jun/20	468.4189
999333	ZNT 12		258728 (100%)	2012/jun/20	2013/jun/20	468.5404
999332	ZNT 13		258728 (100%)	2012/jun/20	2013/jun/20	449.7801
999338	ZNT 14	x	258728 (100%)	2012/jun/20	2013/jun/20	449.9126
999337	ZNT 15	x	258728 (100%)	2012/jun/20	2013/jun/20	468.6594
999334	ZNT 16		258728 (100%)	2012/jun/20	2013/jun/20	468.6591
999682	ZNT 17		258728 (100%)	2012/jun/21	2013/jun/21	299.8569
999683	ZNT 18		258728 (100%)	2012/jun/21	2013/jun/21	393.7011
999684	ZNT 19		258728 (100%)	2012/jun/21	2013/jun/21	393.6425
1013564	ZNT 20	x	258728 (100%)	2012/oct/05	2013/oct/05	393.1748
1013968	ZNT 21		258728 (100%)	2012/oct/24	2013/oct/24	1497.5297

## 6.0 EXPLORATION HISTORY

Prospecting, mineral exploration and mining activities have been underway throughout the Smithers-Houston area of British Columbia since the early 1900's. The exploration history of the work area as recorded in assessment reports is summarized in Table 2 below.

**Table 2. Exploration History**

ARIS	Year	Claims	Company (Author)	Soils	Silts	Rock	Mag	Comments
2508	1969		Searchlight Exploration Corp./R.W. Woolverton				x	A 450 sq/mi airborne mag survey was flown. No significant magnetic signatures were shown over the ZNT property area.
4808	1973	Hubert	Maharaja Minerals/Strato Geological/Uno Leis, John McAndrew	119	12	3	X	Prime target in SW portion of grid. Cu and Ag highs in soils are coincident with mag lows. Grabs vary between 0.105-1.785% Cu and 0.07-2.5 oz/t Ag. All 3 rock samples taken within 300' (90 m) of each other in the creek.
5156	1974	Jo-Bill	Anglo-Bomarc Mines/McPhar Geophysics/Ashton Mullan				X	Most of grid area is magnetically flat except for a high in the NW corner.

ARIS	Year	Claims	Company (Author)	Soils	Silts	Rock	Mag	Comments
5162	1974	Jo-Bill	Anglo-Bomarc Mines/Dolmage Campbell/R.S. Adamson	961				Cu mineralization outcrops in south part of property; Hubert Ck has outcrops in the north. Hazelton rock are red-purple and dark green andesites with minor limey bands and lenses. Cu in soil results are erratic and low. Mo results are insignificant. Zn > 500 ppm is erratic. No further work recommended.
11582	1983	BWS	Riocanex Inc./ J. McClintock	827				Soil sampling identified three areas of anomalous Cu values within the property while no anomalous areas of Ag, Pb or Zn were apparent. Recommended trenching on the upslope side to determine source.
20391	1990	Emerson	Atna Resources Ltd./Peter R. Delancey			50		Two targets identified in the central portion of the claim group. Rock geochemistry showed anomalous Cu and Au values in subcrop. Recommended work includes additional soil grids, trenching and VLF surveys.

## 7.0 REGIONAL GEOLOGY

The ZNT property is located 20 km southeast of Smithers (Figure 1) and lies within the Stikine Terrane of west-central British Columbia. The principal stratigraphic units in the region are volcanic arc assemblages comprised of Lower Jurassic subaerial, mafic to intermediate volcanics of the Hazelton Group (Telkwa Formation and Eagle Peak Formation), and non-marine clastic sediments of the Skeena Group (Red Rose Formation and Kitsuns Creek Formation) (Figure 3a-b).

Less extensive Lower to Upper Jurassic sedimentary sequences include undivided sedimentary rocks of the Bowser Lake Group (Ashman Formation) and the Hazelton Group (Smithers and Nilkitwa Formations). A band of Paleocene to Eocene sedimentary rocks is present northeast of the property.

Tertiary stratigraphy includes Eocene volcanism (andesite, basalt and minor dacite) of the Buck Creek Formation of the Endako Plateau Group. Church (1985) suggested that these volcanics were deposited in a large resurgent collapsed caldera which is centered approximately 65 km southeast of the ZNT claims.

Intrusive rocks span Lower Jurassic to Eocene periods, but the most abundant intrusions belong to the Upper Cretaceous Bulkley Plutonic Suite. The Lower Jurassic Topley Plutonic Suite and Eocene Goosly Plutonic Suite are present to the east of the ZNT property. Many of these intrusions are believed to be feeders for Upper Cretaceous to Eocene volcanics in the area (Church and Barakso, 1990; Dostal, et al., 2005), and some are also associated with



mineralization. The former producing Bell and Granisle porphyry Cu-mines are located approximately 65 northeast of the ZNT claims. There is also potential for Ag-Pb-Zn mineralization like that at the Fireweed prospect located 55 km northeast of the ZNT property in Skeena Group rocks (MacIntyre, 2001).

The region is structurally complex. Strong northwesterly faults are overprinted primarily by abundant north to northeasterly faults. Crustal extension in Late Eocene time produced north trending graben and horst structures, and an event in Miocene time tilted fault blocks (MacIntyre, 2001).

### **7.1 Mineral Occurrences**

The ZNT property hosts 2 historical MINFILE occurrences described below and shown in Figure 3a:

#### ***Bill (093L224)***

- Fine disseminated chalcopyrite with quartz as fracture fillings within a 020 degree trending vertical dipping shear zone.
- A surface geochemical survey initiated by Anglo Bomarc Mines Ltd. in 1974 yielded no anomalous results or patterns of anomalous, potentially economic, significance (Adamson, 1974).

#### ***Hubert (093L226)***

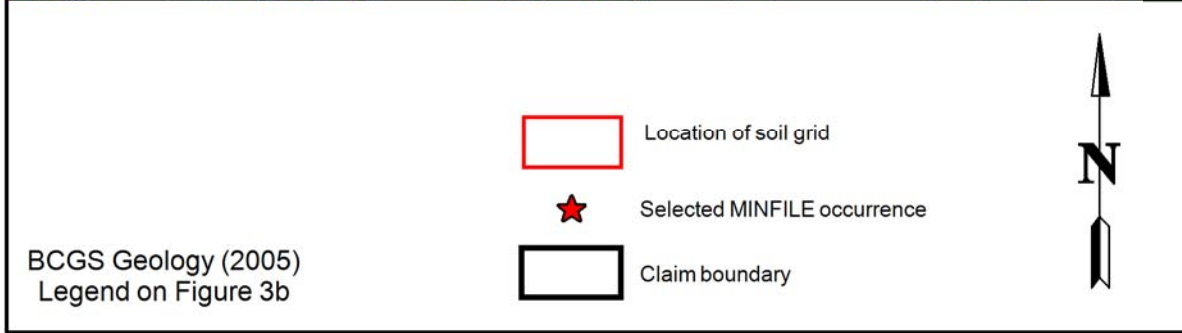
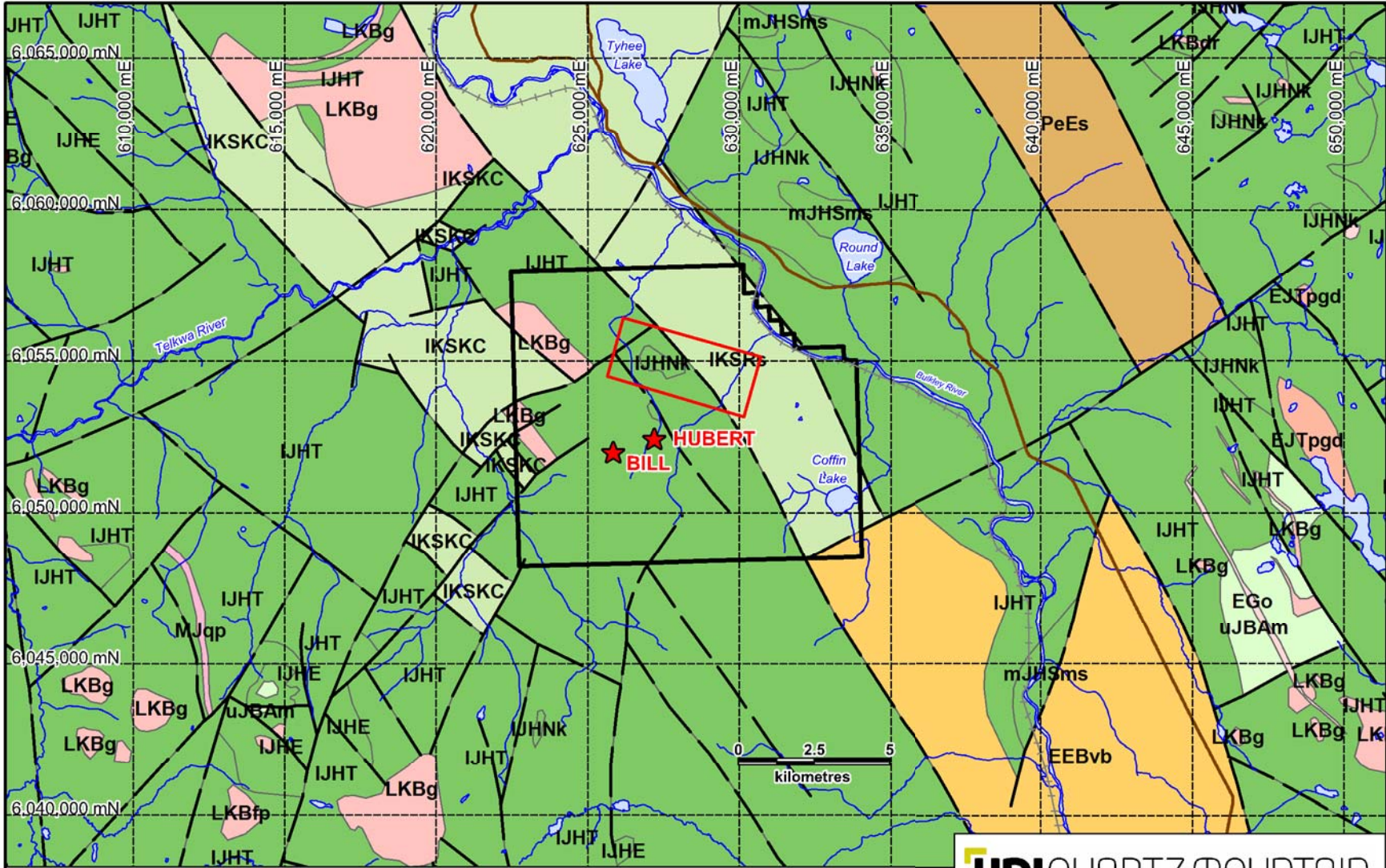
- Mineralization occurs in volcanic rocks as chalcopyrite, pyrite, malachite, and azurite with iron oxides.
- Selected rock sampling initiated by Maharaja Minerals Ltd. in 1973 returned assay values of up to 1.785 % copper and up to 2.48 oz silver in grab samples (McAndrew, 1973).

## **8.0 PROPERTY GEOLOGY**

The ZNT surveyed grid area is dominated by Lower Jurassic calc-alkaline volcanic rocks of the Hazelton Group (Telkwa Formation). MacIntyre (2001) describes the typical lithology as undivided maroon tuffs, feldspar phyric andesite flows and volcanic breccia, amygdaloidal basalt flows, and related epiclastic and volcanoclastic rocks.

A three kilometer wide belt of coarse clastic sedimentary rocks of the Skeena Group (Red Rose Formation) trends northwesterly across the eastern portion of the claim area. According to MacIntyre (2001), Red Rose rocks consist of quartzo-feldspathic sandstone, siltstone, chert-pebble conglomerate and siltstone to mudstone interbeds.





<b>HDI QUARTZ MOUNTAIN</b>		
<b>ZNT</b>		
<b>Regional Geology</b>		
NTS: 93L/10,11	BCGS: 93L.055,56,65,66	Scale: 1 : 200,000
Date: July 2, 2013	Plotted by : AA	
ZNT_AR_RegGeol_July0213.WOR UTM NAD83, Zone 9		<b>Figure 3a</b>

## STRATIGRAPHIC UNITS

### EOCENE



**EEBvb**  
Endako Group - Buck Creek Formation  
Aphanitic andesite and basalt flows  
with minor dacite

### PALEOCENE TO EOCENE



**PeEs**  
Undivided sedimentary rocks: Sandstone,  
siltstone, conglomerate, shale, interbedded  
tuff, tuffaceous siltstone.

### LOWER CRETACEOUS



**IKSRs**  
Skeena Group - Red Rose Formation  
Coarse clastic sedimentary rocks: Sandstone,  
siltstone, argillite, chert-pebble conglomerate,  
mudstone, mainly fluvial, common detrital  
muscovite.



**IKSKC**  
Skeena Group - Kitsuns Creek Formation  
Undivided sedimentary rocks: Feldspathic  
and volcanic sandstone, siltstone, shale,  
polymictic volcanoclastic conglomerate,  
coal, carbonaceous sediments.

### UPPER JURASSIC



**uJBAm**  
Bowser Lake Group - Ashman Formation  
Mudstone, siltstone, shale, fine  
clastic sedimentary rocks.

### MIDDLE JURASSIC



**mJHSms**  
Hazelton Group - Smithers Formation  
Undivided sedimentary rocks: Feldspathic  
sandstone, siltstone, argillite, wacke,  
crystal and lapilli tuff, volcanoclastics.



**IJHE**  
Hazelton Group - Eagle Peak Formation  
Red crystal-lithic tuff, tuffaceous mudstone,  
lapilli tuff, volcanoclastics, basalt, rhyolitic  
ash flow

### LOWER JURASSIC



**IJHT**  
Hazelton Group - Telkwa Formation  
Calc-alkaline volcanic rocks: maroon andesitic  
to dacitic feldspar phyric flows, pyroclastic and  
epiclastic rocks, augite phyric to aphyric basalt,  
breccia, welded tuff.



**IJHNk**  
Hazelton Group - Nilkitkwa Formation  
Undivided sedimentary rocks: Shale,  
wacke, sandstone, siltstone, feldspathic  
epiclastics, conglomerate, ash tuff.

## INTRUSIVE UNITS

### EOCENE



**EGo**  
Goosly Plutonic Suite  
Monzodioritic to gabbroic intrusive rocks

### LATE CRETACEOUS



**LKBfp**  
Bulkley Plutonic Suite  
Granite, alkali feldspar granite intrusive rocks



**LKBdr**  
Bulkley Plutonic Suite  
Dioritic intrusive rocks.



**LKBg**  
Bulkley Plutonic Suite  
Intrusive rocks, undivided.

### MIDDLE JURASSIC



**MJqp**  
High level quartz phyric, felsic intrusive rocks  
Middle Jurassic

### EARLY JURASSIC



**EJTpgd**  
Topley Plutonic Suite  
Granodiorite, quartz diorite, diorite,  
minor granite.



Fault



Road



Railway



Claim boundary

**HDI QUARTZ MOUNTAIN**

**ZNT**

## Regional Geology Legend

Date: July 2, 2013

Plotted by : AA

ZNT\_AR\_RegGeol\_July0213.WOR  
UTM NAD83, Zone 9

**Figure 3b**

Middle to Upper Cretaceous Bulkley Intrusions and coarse clastic sedimentary rocks of the Skeena Group (Kitsuns Creek Formation) occur at the western edge of the property. The Bulkley intrusions include granodiorite to quartz diorite, porphyritic granodiorite, and quartz monzonite. The Kitsuns Creek formation comprises sandstone, siltstone, shale and mudstone, and is locally carbonaceous and coal-bearing.

Geological mapping was not the focus of the current work program which was hindered by snow cover, but a few rock samples were collected where outcrop was encountered during the course of soil sampling. Outcrops are sparsely distributed and account for approximately 1% of the grid. Contact relationships were not observed.

The following lithology descriptions are summarized from field observations made by Quartz Mountain geologists during the 2012 soil sampling program. Location, description and rock geochemistry is discussed in section 9.0.

***Intrusive Rocks:***

Feldspar porphyry outcrops are exposed in the north central portion of the grid; these exposures identify a previously unmapped intrusion (inferred to be of the regionally occurring Bulkley suite). These intrusions are characterized by 10-15% 0.5 – 4mm large, clay altered plagioclase phenocrysts, <5% 3-4 mm large quartz eyes, >5% 1-2mm large acicular hornblende, and minor biotite laths set in a grey siliceous aphanatic groundmass. These rocks are sericite altered and exhibit a bleached appearance.

***Volcanic Rocks:***

The south-central portion of the grid comprises plagioclase – phyric and massive andesite flows, considered to be part of the Jurassic Hazelton Group. The plagioclase-phyric flows are characterized by 10-15% 2-3 mm large euhedral, aligned, tabular, pinkish-orange, plagioclase phenocrysts set in a red to maroon, aphanitic groundmass.

In the south-western portion of the grid massive andesite flows were noted, which are fine grained to aphanatic, greenish-grey in colour, and host trace disseminated pyrite. A second isolated outcrop in the center of the grid comprises fine grained, silicified intermediate volcanics and hosts trace disseminated pyrite along fracture surfaces.

***Sedimentary Rocks:***

Three outcrops have been identified across the grid, comprising immature, feldspathic, lithic-rich sandstone and conglomerate. Feldspathic clastic rocks are strongly weathered, thereby obliterating textural details. Conglomerates host 5-7 cm angular clasts of silt/ mudstone set in a matrix comprising coarse sandstone and lithic fragments. Pervasive, moderate chlorite and hematite alteration is typical of these rocks.

## 9.0 ROCK GEOCHEMISTRY

A total of twenty rock samples were collected on the grid. Three rock samples returned elevated to weakly anomalous Ag-Pb-Zn element concentrations, as highlighted in Table 2. The three aforementioned rocks are spatially dispersed across the grid and occur in sedimentary and volcanic rocks (Figure 4).

A poorly sorted, poly lithic conglomerate outcrop (sample 988128) returned 6.6 ppm Ag and 4443 ppm Zn. This coincides with anomalous Ag, Zn and As concentrations in soil (discussed in section 10.0) and is situated peripheral to a high apparent chargeability anomaly (discussed in section 11.0).

**Table 2: Rock Geochemistry**

Sample	Easting	Northing	Rock type	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Au ppb
964452	629699	6052454	Andesite	61.7	4	145	0.3	4.7	9.4
964453	629901	6051991	Plagioclase-phyric andesite	24.6	1.4	167	0.05	2.1	2
988118	627924	6055849	Plagioclase-feldspar porphyry	5.8	3.7	15	0.25	466	1
988119	627772	6055304	Plagioclase-feldspar porphyry	3.5	4.5	100	0.25	53	1
988120	627679	6055737	Plagioclase-feldspar porphyry	4.8	3.7	18	0.25	706	1
988121	627483	6055051	Andesite	34.2	71	324	0.25	13	1
988122	627479	6055345	Plagioclase-feldspar porphyry	5.4	4.2	165	0.25	33	1
988123	628035	6054419	Plagioclase-phyric andesite	1	7.3	196	0.25	2.5	1
988124	628189	6053782	Plagioclase-phyric andesite	10.8	56.5	202	0.25	6	1
988125	626694	6054468	Andesite	9.1	0.8	63	0.25	2.5	1
988126	628181	6054252	Plagioclase-phyric andesite	0.6	1.3	245	0.25	2.5	1
988127	628083	6054188	Plagioclase-phyric andesite	1.6	4.6	270	0.25	2.5	1
<b>988128</b>	<b>627301</b>	<b>6055104</b>	<b>Conglomerate</b>	<b>132.9</b>	<b>73.1</b>	<b>4443</b>	<b>6.6</b>	<b>34</b>	<b>1</b>
<b>988129</b>	<b>629091</b>	<b>6054769</b>	<b>Plagioclase-phyric clastic</b>	<b>28.3</b>	<b>41.8</b>	<b>3090</b>	<b>4.9</b>	<b>33</b>	<b>1</b>
<b>988130</b>	<b>628035</b>	<b>6053773</b>	<b>Plagioclase-phyric andesite</b>	<b>73.1</b>	<b>575.7</b>	<b>3569</b>	<b>2.5</b>	<b>10</b>	<b>1</b>
988131	628192	6054305	Plagioclase-phyric andesite	3.9	9.7	143	0.25	2.5	1
991033	628087	6055698	Plagioclase-feldspar porphyry	23.7	4.4	43	0.25	12	1
991090	627654	6053955	Plagioclase-phyric clastic	23.5	13.8	310	0.25	7	1
998132	628542	6053971	Plagioclase-phyric andesite	73.8	4.9	114	0.25	10	1
998133	628513	6053864	Plagioclase-phyric andesite	38.8	4.2	161	0.25	8	1

## 10.0 SOIL GEOCHEMISTRY

Between July 10-12, 2012, 256 reconnaissance soil samples were collected followed by an additional 2,177 grid soil samples collected between October 13-31, 2012 for a total of 2,433 soil samples collected during the 2012 field season. The 2012 soil sampling program was established to follow up on anomalous till geochemistry released in Geoscience BC Report 2012-11 (Stempf, 2012). A single-element plot for Ag concentration in soil is provided in Figure 6.

Silver concentrations range up to 20.3 ppm and concentrations of 1 ppm and greater are considered highly significant relative to threshold concentrations of 0.8 ppm (mean Ag value is 0.3 ppm, while the median is 0.2 ppm). Significant Ag results are dispersed across the grid; however, moderately good geochemical continuity occurs in a southeasterly trending 2 km by 1 km area between lines 26 800 E and 28 800 E. Highly anomalous Zn concentrations above 1000 ppm occur in a 700 m by 300 m area between lines 27 000 E and 27 700 E and coincide with the Ag anomaly. Arsenic is largely coincident with the Zn anomaly; however, elevated results are spotty and occur more as scattered small clusters, rather than as a coherent anomaly. Anomalous Pb and Cu results occur erratically across the grid, but several high concentrations occur within the main Ag-Zn-As anomaly.

Overall, the core 2 km x 1 km ZNT geochemical soil anomaly is located within a broad zone of anomalous multi-element concentrations which remains open to the west, south and east.



## 11.0 GEOPHYSICS

### 11.1 Induced Polarization

A 20 line-km induced polarization (IP) survey was conducted by Peter E. Walcott & Associates Ltd. on the ZNT claims from October 20 to November 3, 2012 (Figures 7a and 7b). All 20 line-km were brushed-out, flagged, chained and tagged at 50 m stations. Original pseudosections are in located in Appendix D. The survey consisted of 10 parallel 2 long km lines spaced 200 m apart and was conducted over the main Ag-Zn-As-Sb-Tl soil geochemical anomaly. To minimize signal interference the IP survey lines were oriented perpendicular to the electrical power line which traverses the center of the surveyed grid. Information on survey specifications has been provided by A. Walcott of Peter E. Walcott & Associates.

#### 11.1.1 Approach and Methodology

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Walcer Geophysics of Emskillen, Ontario, and Instrumentation GDD of St. Foy, Quebec.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Walcer). The transmitter, which provides a maximum of 9 kw d.c. to the ground, obtains its power from a 15 kw 400 c.p.s. three phase alternator driven by a Honda 24 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds “current-on” and 2 seconds “current-off” with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes  $C_1$  and  $C_2$ , the primary voltages (V) appearing between any two sequential potential electrodes,  $P_1$  through  $P_{n+1}$ , during the “current-on” part of the cycle, and the apparent chargeability, ( $M_a$ ) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity ( $\hat{\rho}_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the “pole-dipole” method of surveying. In this method the current electrode,  $C_1$ , and the potential electrodes,  $P_1$  through  $P_{n+1}$ , are moved in unison along the survey lines at a spacing of “a” (the dipole) apart, while the second current electrode,  $C_2$ , is

kept constant at “infinity”. The distance, “na” between  $C_1$  and the nearest potential electrode generally controls the depth to be explored by the particular separation, “n”, traverse.

### **11.1.2 Interpretation**

The results of the survey identified two chargeability features: a 1.5 km x 1 km north-south trending chargeability anomaly with a peak chargeability of 59 mV/V at the northern portion of line 274+00E, and 500m west of it a second 500 m x 500 m chargeability anomaly (Figure 7a). Both chargeability anomalies remain open to the north. The south-central part of the chargeability anomaly coincides with a 1.5 km x 1.5 km resistivity anomaly (Figure 7b), which remains open to the southeast. To the north, resistivity decreases significantly and broadly coincides with a change in lithology as indicated on the regional geology map in Figure 3a.

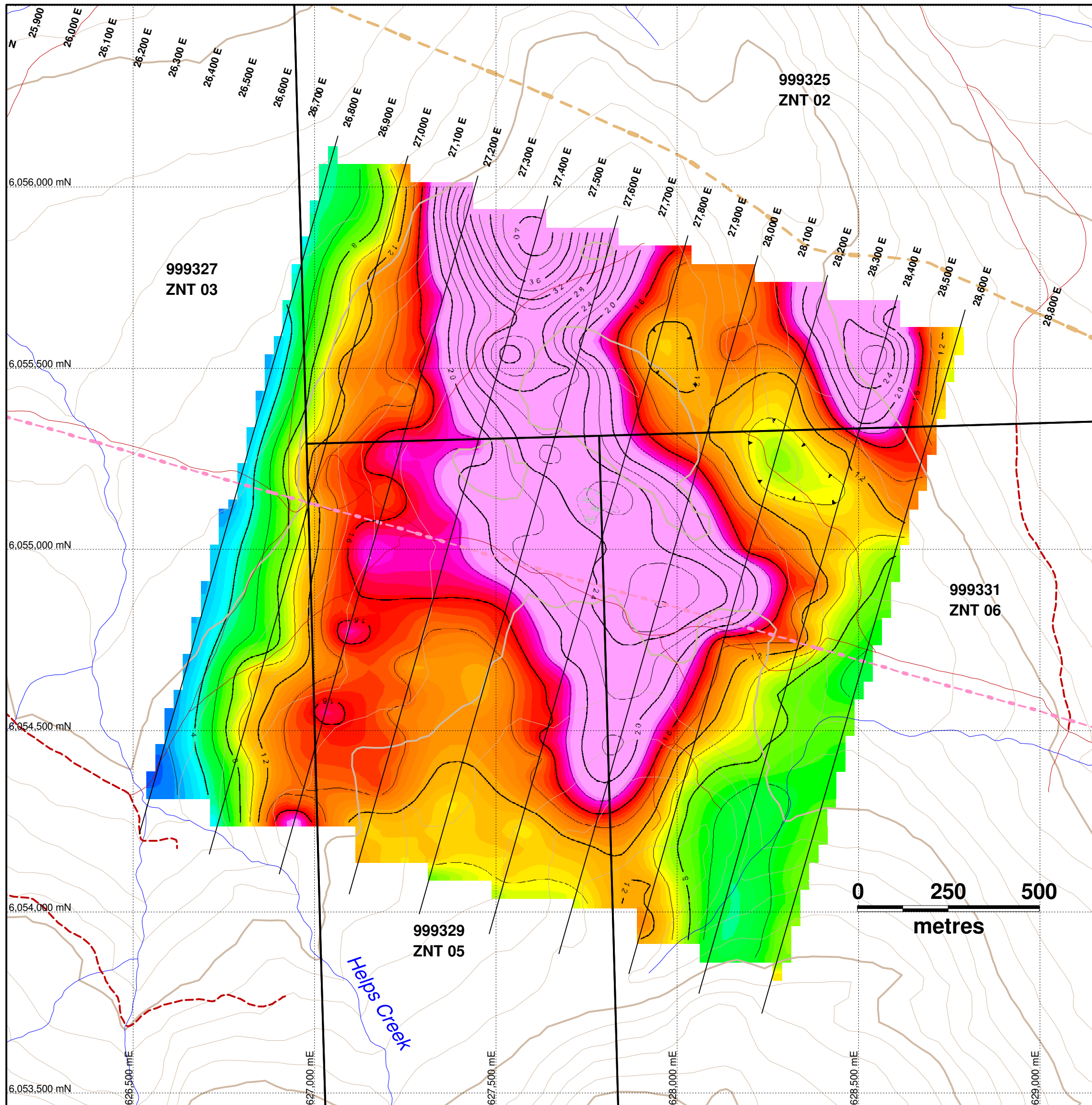
Provided in Appendix D are the pseudo-sections of the apparent chargeability and apparent resistivity of the ZNT grid IP results.





The presence of a chargeability anomaly and partly overlapping resistivity anomaly in conjunction with the Ag soil anomaly suggests a strong hydrothermal sulphide system is present within the surveyed area at ZNT.

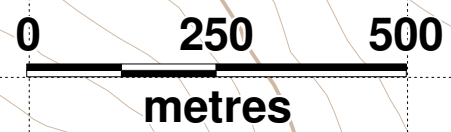
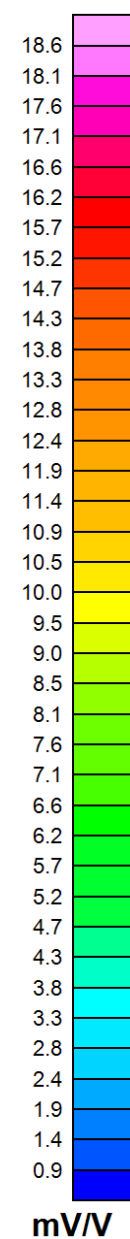
## **12.0 CONCLUSIONS AND RECOMMENDATIONS**

The ZNT soil and IP anomalies remain open and require additional work. Around the central multi-element geochemical soil anomaly are anomalous areas of Ag and associated elements with good value to value continuity. Thus the geochemical soil anomaly at ZNT remains open to the west, south and east.

The core of the geochemical soil anomaly coincides with the central part of the chargeability and resistivity anomaly and suggests the presence of a high-potential for a mineralized hydrothermal sulphide system. Additional surface exploration is recommended over the ZNT claim by expanding the existing soil and IP grid and by reconnaissance geochemical sampling over the full extent of the claim block. Upon completion of geological mapping of the surveyed areas, the centre of the IP chargeability and coincident geochemical soil anomaly should be drill-tested.



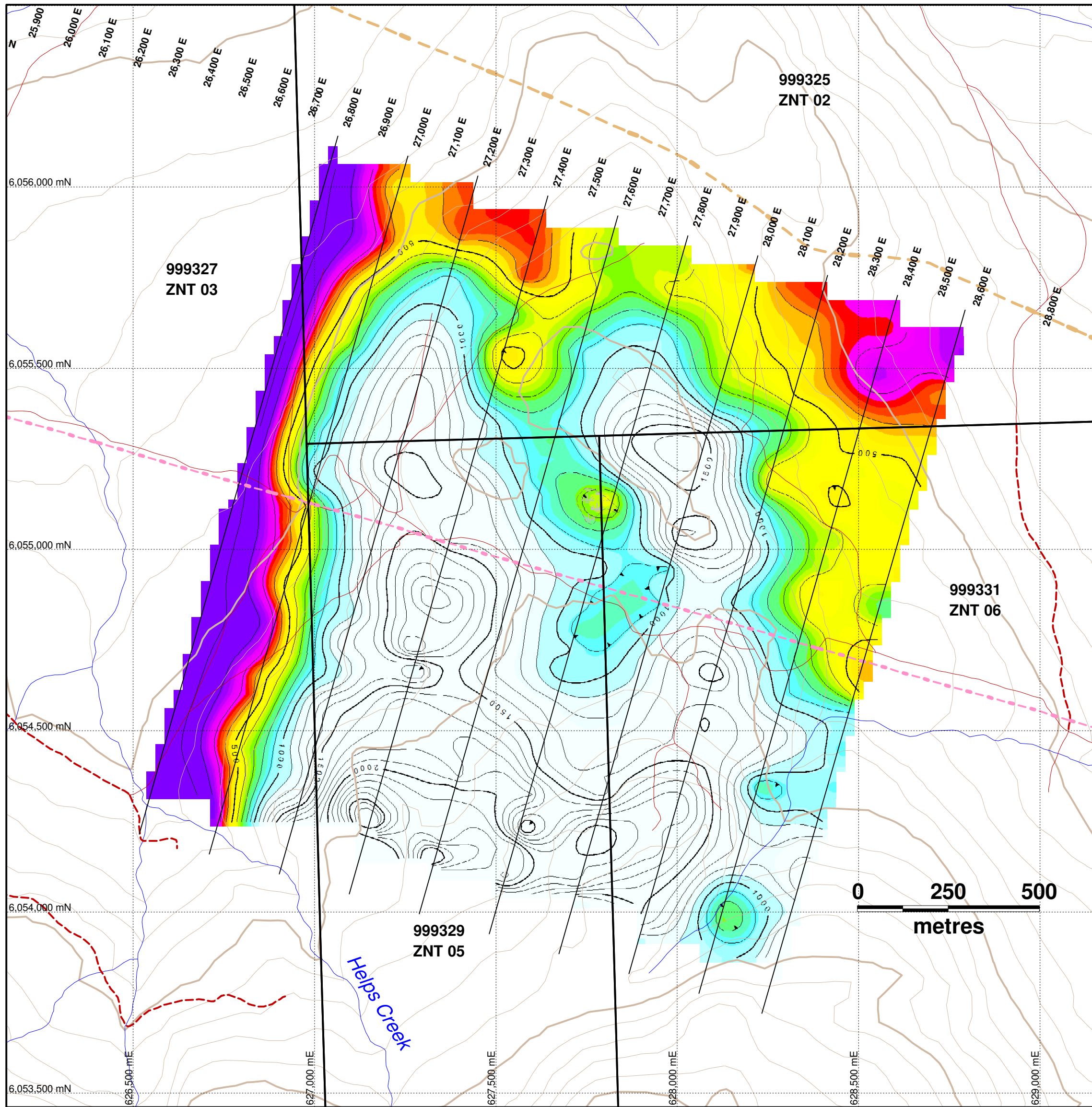
-  Claim boundary
-  Power line
-  Pipeline
-  Induced Polarization grid







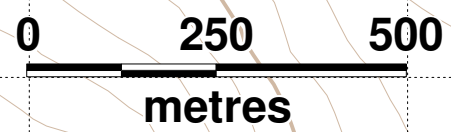
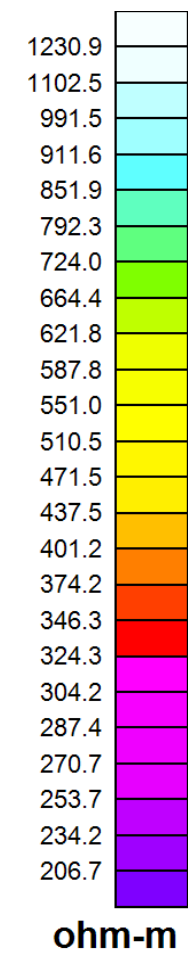
**HDI QUARTZ MOUNTAIN**  
**ZNT**  
**Filtered Chargeability**

NTS: 93L/11	BCGS: 93L.065	Scale: 1 : 10,000
Date: July 2, 2013	Plotted by : GMD	
ZNT_AR_IP_July0213.WOR UTM NAD83, Zone 9	<b>Figure 7a</b>	





-  Claim boundary
-  Power line
-  Pipeline
-  Induced Polarization grid



<b>HDI QUARTZ MOUNTAIN</b>		
<b>ZNT</b>		
<b>Filtered Resistivity</b>		
NTS: 93L/11	BCGS: 93L.065	Scale: 1 : 10,000
Date: July 2, 2013	Plotted by : GMD	
ZNT_AR_IP_July0213.WOR UTM NAD83, Zone 9	<b>Figure 7b</b>	

## 13.0 REFERENCES

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- Tipper, H.W. & Richards, T.A. 1976. Jurassic stratigraphy and history of north-central British Columbia. Geological Survey of Canada Bulletin 270. 73 pp.

## 14. STATEMENT OF QUALIFICATIONS

I, **Michael Galicki**, of Vancouver, British Columbia, do hereby certify:

1. That I am Advisor - Geology working for Hunter Dickinson Services Inc., with offices located at 15<sup>th</sup> floor 1040 West Georgia St, Vancouver, BC.
2. That I am a graduate of Laurentian University, Sudbury ON, (B.Sc. Hons. Geology, 2008) and Simon Fraser University, Burnaby BC (M.Sc. Geology, 2011) and have been employed in the mineral exploration industry since June 2009.
3. I am a Geoscientist-in-Training (GIT) registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (System-ID: 167701).

Signed on the 9<sup>th</sup> day of August 2013



Michael Galicki, M.Sc., GIT

## STATEMENT OF QUALIFICATIONS

I, **Anna Grace Andrzejewski**, resident of Vancouver, British Columbia, do certify that:

1. I am a graduate of Queen's University with a B.Sc. in Geological Sciences (2010);
2. I have practiced geology in Ontario and in British Columbia since 2007;
3. I am presently employed with Hunter Dickinson Services Inc. as Advisor | Geology;
4. I have personally participated in the logistical support, fieldwork and analysis of data on the Galaxie property as described in this report.
5. I am an author of this report.

Signed on the 9<sup>th</sup> day of August 2013



Anna Grace Andrzejewski, B.Sc.

## STATEMENT OF QUALIFICATIONS

I, **Andrew Stewart Takahashi**, resident of Vancouver, British Columbia, do certify that:

1. I am a graduate of the University of Northern British Columbia with a B.Sc. in Geography (2003);
2. I have performed geological services in British Columbia, New Brunswick, Alaska and Tibet since 2004;
3. I am presently employed with Hunter Dickinson Services Inc. as Manager | Project Services;
4. I am an author of this report.

Signed on the 9<sup>th</sup> day of August 2013

A handwritten signature in black ink, appearing to read 'A. S. Takahashi', with a long horizontal flourish extending to the right.

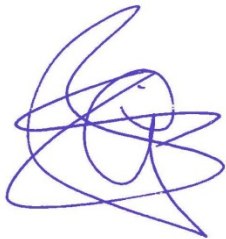
Andrew Stewart Takahashi, B.Sc.

## STATEMENT OF QUALIFICATIONS

I, **Gwendolen May Ditson**, do hereby state that:

1. I am a Compilation Geologist working for Amarc Resources Ltd., with offices located at 1500 – 1040 West Georgia Street, Vancouver, B.C.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 20135.
3. I am a graduate of the University of Southern California (B.S., 1974), and the University of British Columbia (M.Sc., 1978).
4. I have been an exploration geologist since 1976, and have worked in Canada, the United States, Chile, Spain and Mexico.
5. I am an author of this report.

Signed on the 9<sup>th</sup> day of August 2013

A handwritten signature in blue ink, consisting of several overlapping loops and curves, positioned below the date.

Gwendolen May Ditson, M.Sc., P.Geol.

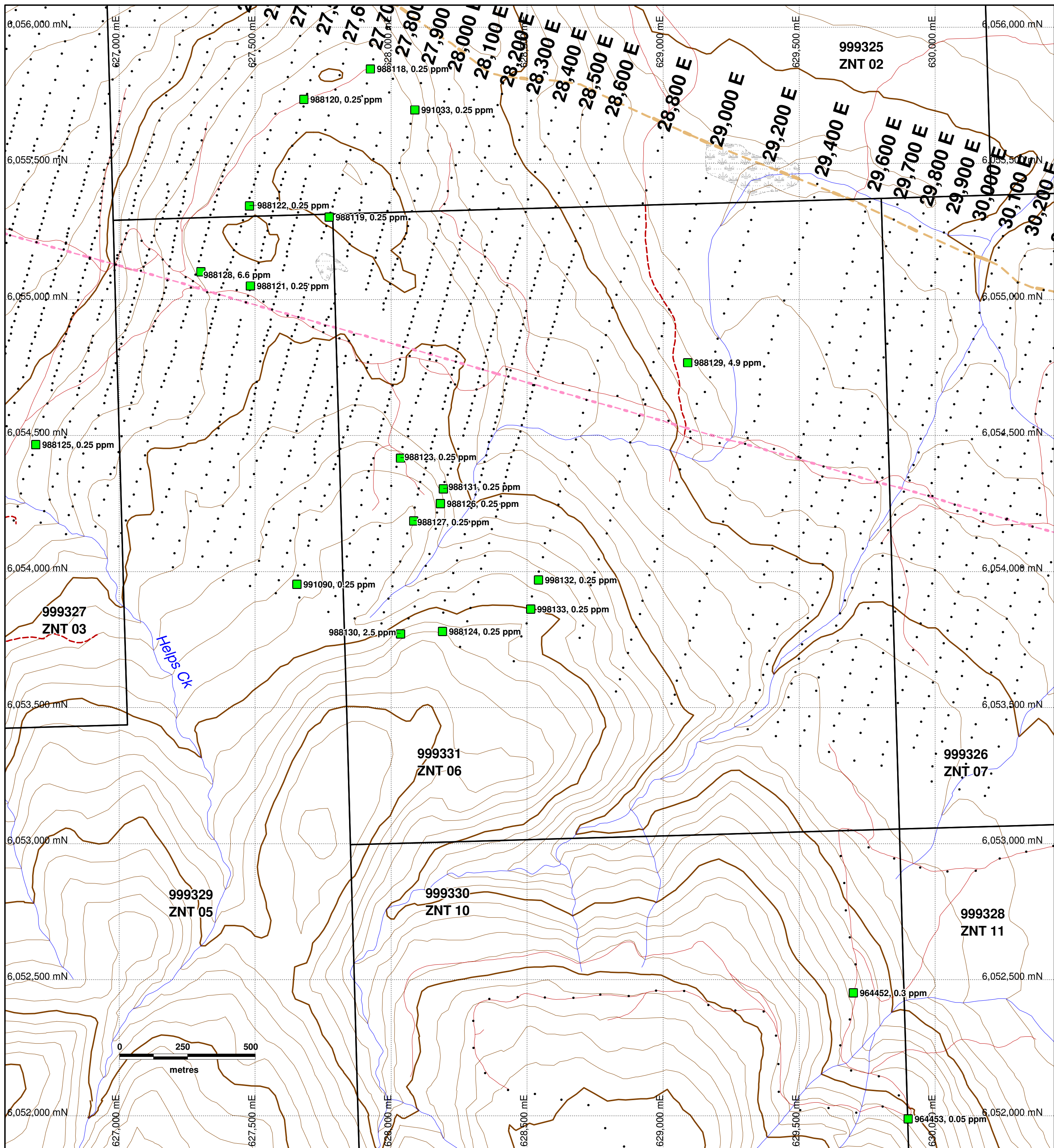
## 14.0 STATEMENT OF COSTS

Exploration Work type	Comment	Days			Totals
<b>Personnel (Name)* /Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>	
A. Andrzejewski/ Geologist	June 30 - July 1, October 17 - 27, October 29 - 30	15	\$680.00	\$10,200.00	
C. Bell-Irving/ Geologist	October 11 - 27, 29, 31	19	\$680.00	\$12,920.00	
M. Sawatzky/ Geologist	October 30	1	\$680.00	\$680.00	
B. Harding/ Geologist	June 30 - July 1, October 11 - 27, 29	20	\$680.00	\$13,600.00	
M. Galicki/ Geologist	October 12 - 13	2	\$680.00	\$1,360.00	
P. Van Bui/ Geologist	June 30 - July 1	2	\$680.00	\$1,360.00	
R. Roe/ Technician	June 30 - July 1, October 12 - 16	7	\$680.00	\$4,760.00	
C. Roe/ Technician	June 30, October 15 - 27, 29	15	\$480.00	\$7,200.00	
G. Krawczuk/ Technician	October 15 - 23	9	\$480.00	\$4,320.00	
R. Partridge/ Technician	October 19 - 27, 29, 31	11	\$480.00	\$5,280.00	
J. Lindgren/ Technician	October 30	1	\$480.00	\$480.00	
IP Field Crew	October 20 - November 3 (ave. 7 per day)	98	NA*	NA*	
		200.0		\$62,160.00	<b>\$62,160.00</b>
<b>Office Studies</b>	<b>Personnel</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Project Supervision	Mark Rebagliati	1.5	\$2,160.000	\$3,240.00	
Project Supervision	Robert Cluff	1.0	\$2,160.000	\$2,160.00	
Data Processing	Romeo Taras	1.5	\$680.000	\$1,020.00	
Drew Takahashi	Report Preparation	3.0	\$1,040.000	\$3,120.00	
Gwendolen Ditson	Report Map Preparation	2.0	\$1,040.000	\$2,080.00	
		5.0		\$11,620.00	<b>\$11,620.00</b>
<b>Geochemical Surveying</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Soil	Acme Labs, Vancouver, BC	2433.0	\$19.17	\$46,643.70	
Rock	Acme Labs, Vancouver, BC	20.0	\$37.88	\$757.56	
		2453.0		\$47,401.26	<b>\$47,401.26</b>
<b>Ground geophysics</b>		<b>Line-km</b>	<b>Rate</b>	<b>Subtotal</b>	
Induced Polarization	Peter E. Walcott & Assoc.	20.0	\$3,358.44	\$67,168.80	
				\$67,168.80	<b>\$67,168.80</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Truck Rental	Ron Ridley Rentals, Williams Lk (2 trucks, 15 days each)	2.00	\$1,200.00	\$2,400.00	
Rental Truck Fuel	Chevron			\$499.50	
				\$2,899.50	<b>\$2,899.50</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Hotel	Aspen Inn (HDSI 73.5 nights, IP Crew 51.5 nights)	125.00		\$11,638.30	
Hotel	Wanakena Motel (HDSI 8 nights June-July)	8.00		\$552.00	
Meals	Aspen River House, Alpenhorn Bistro, Blue Fin, Panago			\$2,390.00	
Groceries	Bulkey Valley Wholesale, Safeway			\$2,435.56	
		133.00		\$17,015.86	<b>\$17,015.86</b>
<b>Field Supplies</b>				<b>Subtotal</b>	
Evergreen Industrial Supplies, Smithers	safety glasses, gloves, sample bags, tire chains, flagging, etc.			\$2,489.07	
Deakin Industries	tyvek tags			\$199.00	
Home hardware	Duct tape, batteries, ziploc bags			\$71.58	
				\$2,759.65	<b>\$2,759.65</b>

\*IP field crew rate included in geophysics invoice






**TOTAL Expenditures: \$ 211,025.07**



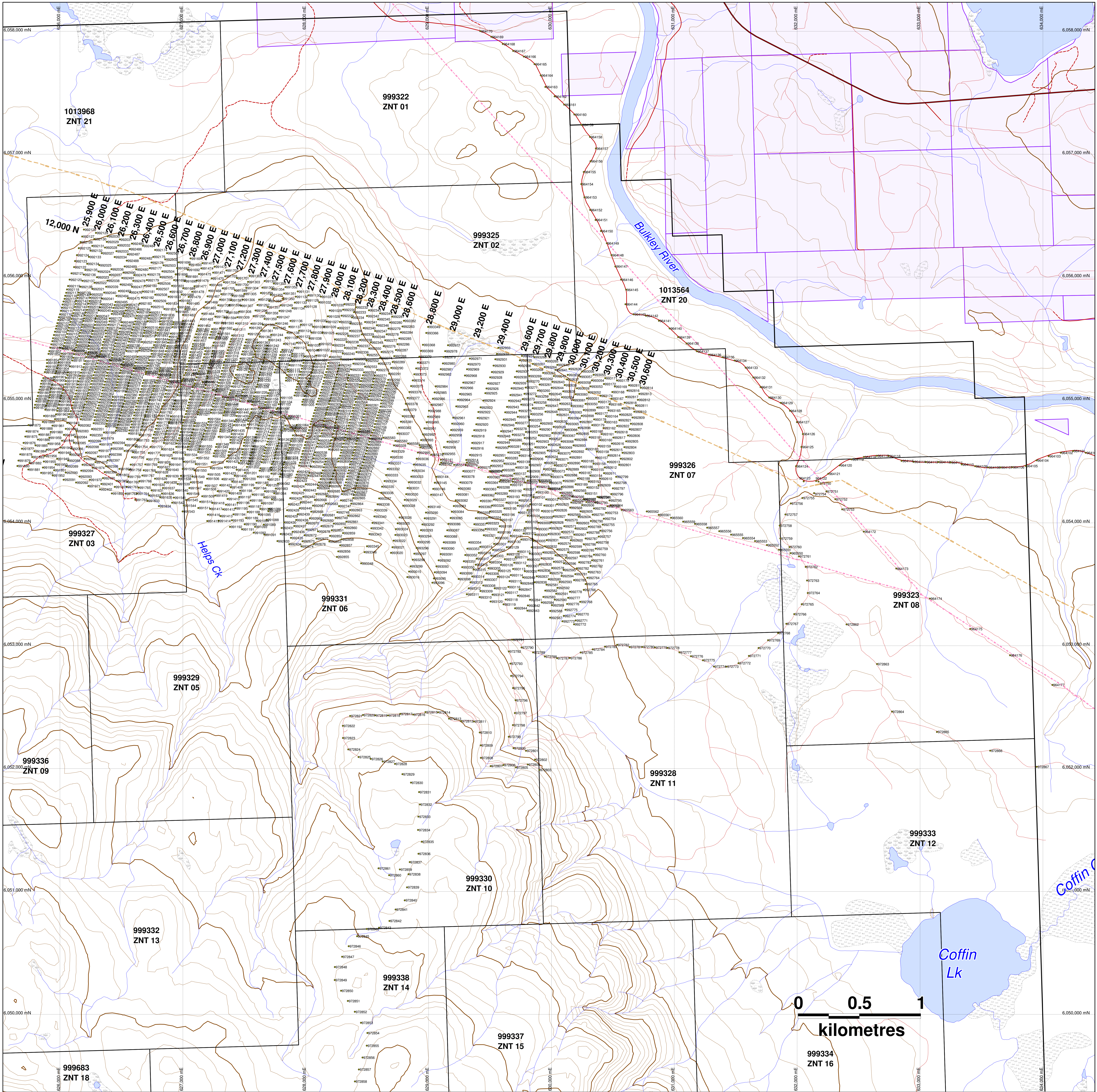


**HDI QUARTZ MOUNTAIN**  
**ZNT**  
**Rock Samples**

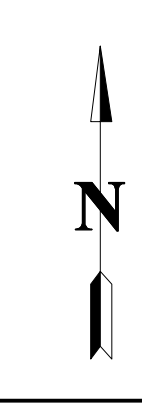
NTS: 93L/10.11	BCGS: 93L.055,56,65,66	Scale: 1 : 10,000
Date: July 2, 2013	Plotted by : GMD	
ZNT_AR_Rocks_July0213.WOR UTM NAD83, Zone 9		<b>Figure 4</b>

-  Power Line
-  Pipeline
-  ZNT property boundary
-  Rock sample  
Sample number; ppm Ag
-  Soil sample





- Power Line
- Pipeline
- Claim boundary
- Soil sample location posted
- Private land



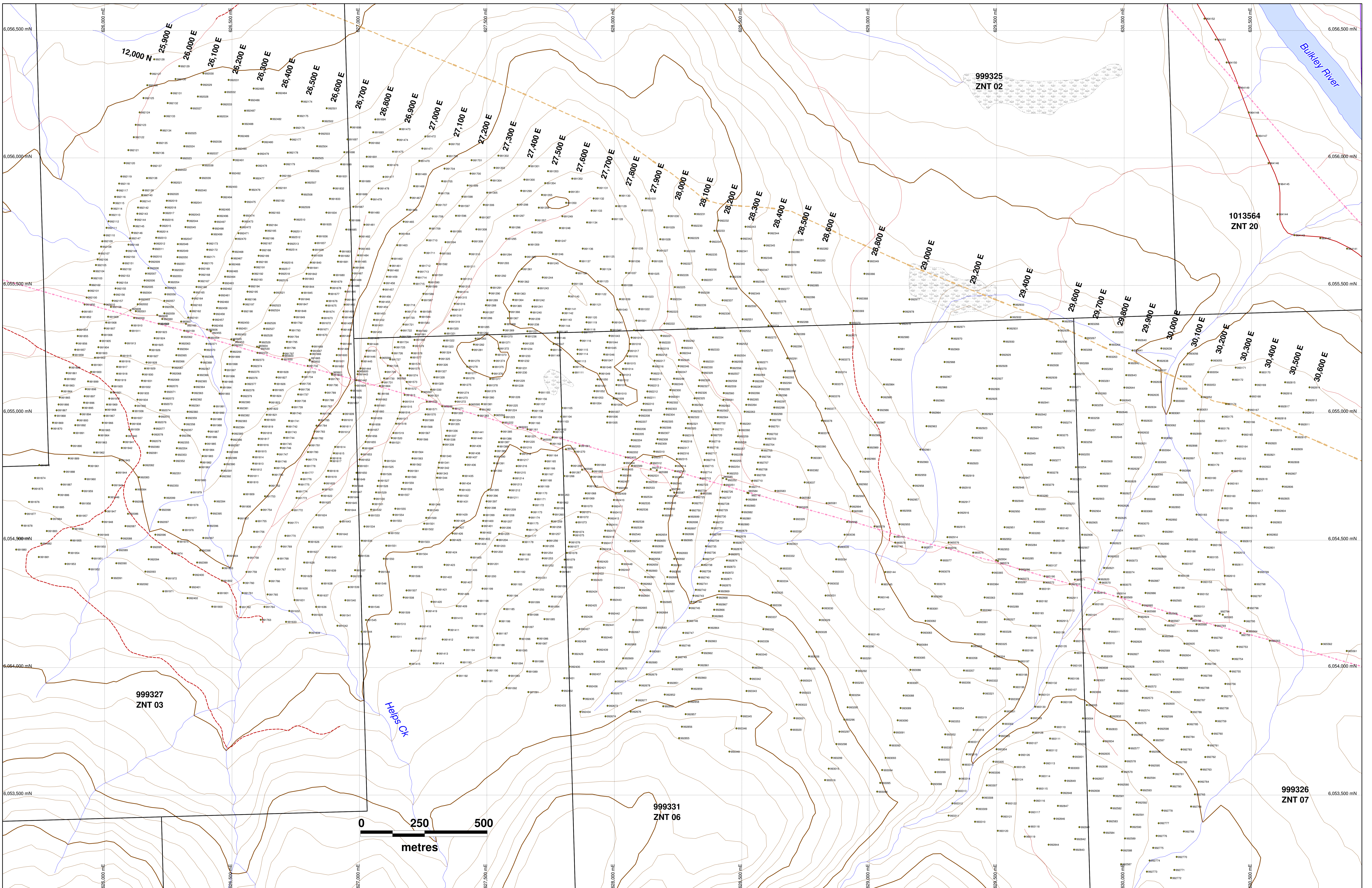
**HDI QUARTZ MOUNTAIN**

**ZNT**

**Soil Sample Locations (10k)**

NTS: 936/10.11 BCGS: 93L 055.56.65.66 Scale: 1:10,000  
 Date: July 2, 2013 Printed by: GMD  
 ZNT AB: SubItems\soil\_10k\1013\WDR Figure 5a



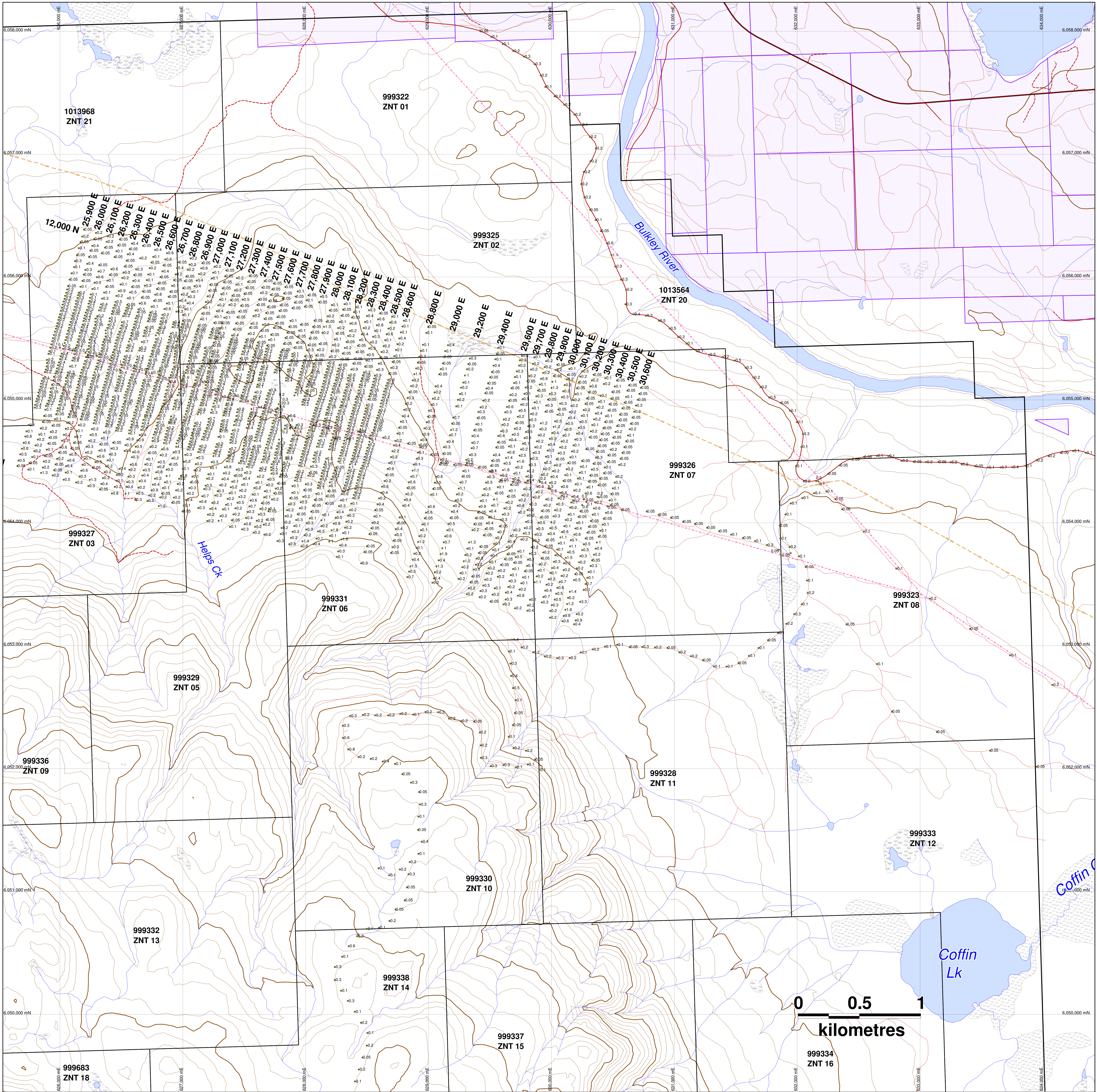


**HDI QUARTZ MOUNTAIN**  
**ZNT**  
**Soil Sample Locations (5k)**

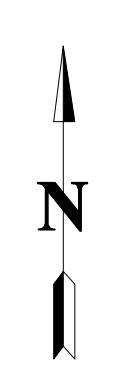
NTS: 99.10.11 BCGS: 98.05.56.65.66 Scale: 1:5000  
 Date: July 2, 2013 Plotted by: GMD  
 ZNT\_Air\_Soilsamples\_LAY013.WDR Figure 5b

- Power Line
- Pipeline
- Claim boundary
- Soil sample
- sample number posted
- Private land





- Power Line
- Pipeline
- Claim boundary
- Private land
- Soil sample
- ppm Ag posted



**HDI QUARTZ MOUNTAIN**  
**ZNT**  
**Silver in Soils**

NTS: 936/1011 BCGS: 936.556.565.66 Scale: 1:10,000  
 Date: July 2, 2013 Posted by: GMD  
 ZNT AR Site Ag July 13 WOR  
 UTM NAD83 Zone 9 **Figure 6**



## **APPENDIX A**

### **Analytical Procedures**

## METHOD SPECIFICATIONS

### GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

<b>Package Codes:</b>	<b>1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07</b>
<b>Sample Digestion:</b>	<b>HNO<sub>3</sub>-HCl acid digestion</b>
<b>Instrumentation Method:</b>	<b>ICP-ES (1D), ICP-MS (1DX, 1F)</b>
<b>Applicability:</b>	<b>Sediment, Soil, Non-mineralized Rock and Drill Core</b>

#### Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO<sub>3</sub> and DI H<sub>2</sub>O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb <sub>204</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>206</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>207</sub>	-	-	0.01 ppm	10000 ppm
Pb <sub>208</sub>	-	-	0.01 ppm	10000 ppm

\* Solubility of some elements will be limited by mineral species present.

^Detection limit = 1 ppm for 15g / 30g analysis.

**Limitations:**

Au solubility can be limited by refractory and graphitic samples.

## METHOD SPECIFICATIONS

### GROUP 3B AND G6 – PRECIOUS METALS BY FIRE ASSAY FUSION

<b>Package Codes:</b>	<b>3B01 to 3B04, G601 to G614</b>
<b>Sample Digestion:</b>	<b>Lead-collection fire assay fusion</b>
<b>Instrumentation Method:</b>	<b>ICP-ES (3B, G6), ICP-MS (3B-MS), AA (3B, G6), Gravimetric (G6)</b>
<b>Applicability:</b>	<b>Rock, Drill Core</b>

#### Method Description:

Prepared sample is custom-blended with fire-assay fluxes, PbO litharge and a Ag inquart. Firing the charge at 1050 °C liberates Ag ± Au ± PGEs that report to the molten Pb-metal phase. After cooling the Pb button is recovered, placed in a cupel and fired at 950 °C to render a Ag ± Au ± PGEs dore bead. The bead is digested for ICP analysis or weighed and parted in ACS grade HNO<sub>3</sub> to dissolve Ag leaving a Au sponge. Au is weighed for Gravimetric determination; ACS grade HCl is added dissolving the Au ± PGE sponge for Instrument determination.

Element	3B Detection	3B Upper Limit	3B-MS Detection	3B-MS Upper Limit
<b>Au</b>	2 ppb	10000 ppb	1 ppb	10000 ppb
<b>Pt</b>	3 ppb	10000 ppb	0.1 ppb	10000 ppb
<b>Pd</b>	2 ppb	10000 ppb	0.5 ppb	10000 ppb

Element	G6 (Inst) Detection	G6 (Inst) Upper Limit	G6 (Grav) Detection	G6 (Grav) Upper Limit
<b>Ag</b>	--	--	50 g/t	1 ton
<b>Au</b>	0.005 g/t	10 g/t	0.9 g/t	1 ton
<b>Pt</b>	0.01 g/t	100 g/t	--	--
<b>Pd</b>	0.01 g/t	100 g/t	--	--

#### Note:

\*Sulphide-rich samples require a 15g or smaller sample for proper fusion.

## **APPENDIX B**

### **Analytical Certificates**





1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Quartz Mountain Resources Ltd.

15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 Canada

Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 04, 2012

Report Date: August 07, 2012

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# CERTIFICATE OF ANALYSIS

# SMI12000059.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: ZNT  
P.O. Number: QZM-ZNT-001  
Number of Samples: 256

## SAMPLE DISPOSAL

RTRN-PLP Return  
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: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	256	Dry at 60C			SMI
SS80	256	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	256	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## ADDITIONAL COMMENTS



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



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Project: ZNT  
 Report Date: August 07, 2012

Page: 2 of 10

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
964100	Soil	0.7	24.4	7.8	78	0.1	24.8	10.7	674	2.76	7.1	<0.5	0.8	40	0.4	0.5	0.1	51	0.58	0.070	6
964101	Soil	0.9	32.4	9.6	78	0.1	26.8	12.8	1070	3.32	12.1	3.1	1.1	35	0.2	0.6	0.1	62	0.41	0.078	8
964102	Soil	0.8	11.7	8.0	134	<0.1	17.4	11.1	1736	2.98	4.3	<0.5	0.6	31	0.8	0.3	0.1	53	0.32	0.226	5
964103	Soil	0.7	14.2	4.9	86	0.2	17.8	7.1	577	2.21	3.6	1.1	0.6	27	0.1	0.4	0.1	43	0.31	0.073	6
964104	Soil	0.6	24.6	7.1	73	0.2	20.8	9.1	731	2.72	7.2	2.2	0.9	38	0.2	0.4	0.1	50	0.41	0.090	8
964105	Soil	0.7	24.4	8.2	82	0.1	22.4	11.0	816	2.94	8.6	0.8	1.0	35	0.2	0.6	0.1	55	0.38	0.080	8
964106	Soil	0.6	43.9	8.0	105	0.4	32.4	12.1	1012	3.20	7.7	<0.5	0.9	50	0.7	0.4	0.2	56	0.51	0.097	13
964107	Soil	0.8	38.9	7.2	100	0.7	31.2	9.5	784	2.66	6.1	<0.5	0.6	73	0.7	0.4	0.1	45	0.83	0.102	14
964108	Soil	0.7	27.2	8.8	134	0.1	21.9	11.2	976	2.89	7.5	2.2	0.5	43	0.6	0.5	0.1	52	0.51	0.105	8
964109	Soil	0.5	12.7	5.8	54	<0.1	16.7	8.0	440	2.64	6.3	1.0	0.6	27	<0.1	0.4	<0.1	52	0.29	0.089	5
964110	Soil	0.6	26.7	7.2	72	0.2	20.9	10.1	913	2.75	6.8	3.0	1.0	32	0.3	0.5	0.1	52	0.34	0.040	12
964111	Soil	0.9	15.0	7.4	82	0.2	18.8	11.5	656	2.88	6.6	<0.5	0.9	21	0.2	0.5	0.1	54	0.25	0.094	6
964112	Soil	0.6	10.7	6.1	65	<0.1	15.0	7.5	319	2.62	5.7	0.8	0.7	19	0.2	0.4	0.1	53	0.18	0.056	5
964113	Soil	0.6	19.9	7.5	79	0.2	18.4	10.6	885	2.52	5.5	1.1	0.5	43	0.6	0.4	0.1	45	0.42	0.111	7
964114	Soil	0.7	14.4	7.4	64	<0.1	18.5	10.0	633	2.82	7.9	1.0	0.7	20	0.2	0.5	<0.1	54	0.22	0.084	5
964115	Soil	0.9	32.0	9.7	84	0.2	25.5	11.8	903	2.89	9.5	1.5	1.0	45	0.4	0.5	0.1	51	0.47	0.065	11
964116	Soil	0.7	18.5	7.7	75	0.1	19.9	9.3	578	2.79	8.4	<0.5	0.8	21	<0.1	0.5	0.2	54	0.19	0.025	6
964117	Soil	0.6	19.2	8.0	99	0.1	17.6	9.2	866	2.49	5.6	<0.5	0.4	31	0.4	0.4	0.1	48	0.32	0.080	7
964118	Soil	0.8	17.5	6.3	77	<0.1	18.9	9.0	495	2.60	6.7	<0.5	0.9	26	0.1	0.4	0.1	48	0.26	0.045	7
964119	Soil	0.7	16.5	6.9	66	<0.1	18.5	9.3	518	2.64	8.3	<0.5	0.6	25	<0.1	0.5	0.1	50	0.25	0.042	6
964120	Soil	0.6	17.8	6.2	67	<0.1	19.7	7.7	591	2.53	6.8	<0.5	0.8	32	<0.1	0.4	0.1	48	0.35	0.055	8
964121	Soil	1.1	31.7	11.8	92	<0.1	23.4	13.2	1019	3.25	12.1	<0.5	1.1	32	0.3	0.6	0.1	59	0.32	0.051	8
964122	Soil	0.7	22.2	5.9	85	0.2	21.4	8.1	755	2.42	5.5	<0.5	0.7	32	<0.1	0.3	0.1	46	0.31	0.058	9
964123	Soil	0.9	30.0	12.9	104	0.2	24.5	13.4	1275	3.29	12.1	0.7	1.2	39	0.4	0.6	0.1	60	0.47	0.067	8
964124	Soil	0.6	22.3	6.7	81	0.1	20.5	8.5	650	2.57	6.9	1.3	0.8	33	0.2	0.3	0.1	49	0.31	0.052	8
964125	Soil	0.6	20.0	6.8	94	0.1	21.5	9.0	1115	2.53	5.1	<0.5	0.5	28	0.1	0.4	0.1	47	0.26	0.057	8
964126	Soil	0.9	48.4	8.5	101	0.3	33.5	11.5	1750	3.10	6.7	<0.5	1.0	50	0.3	0.4	0.1	54	0.58	0.106	22
964127	Soil	0.7	10.4	7.2	88	0.1	13.0	7.9	1067	2.48	4.1	1.0	0.4	27	0.4	0.3	0.1	49	0.31	0.121	5
964128	Soil	0.5	12.3	5.2	101	0.1	15.6	6.9	914	2.24	4.0	0.8	0.6	24	0.4	0.3	0.1	42	0.29	0.049	6
964129	Soil	0.7	9.3	6.2	79	<0.1	11.5	8.2	1031	2.19	2.8	<0.5	0.3	27	0.4	0.3	0.1	43	0.32	0.048	5

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Project: ZNT  
 Report Date: August 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964100	Soil	23	0.56	210	0.026	3	1.34	0.017	0.06	0.1	0.05	5.2	<0.1	<0.05	4	<0.5	<0.2
964101	Soil	25	0.57	198	0.038	2	1.37	0.015	0.09	0.2	0.05	6.8	<0.1	<0.05	5	<0.5	<0.2
964102	Soil	20	0.39	313	0.029	3	1.30	0.007	0.11	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
964103	Soil	19	0.41	138	0.038	2	1.17	0.008	0.08	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
964104	Soil	22	0.48	152	0.037	2	1.37	0.011	0.10	0.1	0.04	5.1	<0.1	<0.05	4	<0.5	<0.2
964105	Soil	22	0.52	159	0.042	2	1.38	0.014	0.10	0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
964106	Soil	27	0.57	230	0.022	2	2.02	0.015	0.14	0.1	0.03	8.3	<0.1	<0.05	6	<0.5	<0.2
964107	Soil	25	0.54	239	0.014	3	1.95	0.013	0.15	0.1	0.06	7.0	<0.1	<0.05	5	<0.5	<0.2
964108	Soil	21	0.51	200	0.034	3	1.43	0.011	0.14	0.2	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2
964109	Soil	19	0.43	138	0.044	2	1.17	0.011	0.06	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
964110	Soil	22	0.44	213	0.041	2	1.46	0.010	0.09	0.1	0.04	6.4	<0.1	<0.05	5	0.5	<0.2
964111	Soil	22	0.48	138	0.044	2	1.41	0.015	0.07	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
964112	Soil	17	0.37	112	0.040	2	1.13	0.008	0.04	0.2	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
964113	Soil	19	0.42	247	0.030	3	1.30	0.009	0.11	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964114	Soil	19	0.44	98	0.047	2	1.14	0.009	0.07	0.2	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
964115	Soil	25	0.55	178	0.026	2	1.60	0.012	0.11	0.1	0.03	6.7	<0.1	<0.05	5	<0.5	<0.2
964116	Soil	21	0.54	114	0.041	2	1.41	0.014	0.06	0.1	0.02	4.3	<0.1	<0.05	5	0.6	<0.2
964117	Soil	19	0.35	194	0.029	2	1.33	0.010	0.07	0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
964118	Soil	20	0.44	128	0.040	2	1.35	0.010	0.08	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
964119	Soil	18	0.46	116	0.044	2	1.26	0.009	0.07	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
964120	Soil	21	0.44	143	0.040	1	1.36	0.011	0.07	0.1	0.02	5.0	<0.1	<0.05	4	<0.5	<0.2
964121	Soil	26	0.58	183	0.028	2	1.63	0.018	0.09	0.1	0.03	6.5	<0.1	<0.05	5	<0.5	<0.2
964122	Soil	24	0.49	175	0.019	1	1.72	0.012	0.09	0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
964123	Soil	25	0.54	241	0.037	1	1.47	0.016	0.08	0.1	0.03	6.6	<0.1	<0.05	5	<0.5	<0.2
964124	Soil	21	0.49	138	0.040	2	1.36	0.012	0.09	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
964125	Soil	20	0.44	176	0.024	2	1.54	0.010	0.08	<0.1	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
964126	Soil	30	0.61	322	0.014	2	2.47	0.011	0.15	0.1	0.04	9.2	<0.1	<0.05	7	<0.5	<0.2
964127	Soil	17	0.30	217	0.035	2	1.10	0.007	0.06	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
964128	Soil	16	0.35	161	0.042	1	1.10	0.009	0.06	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964129	Soil	14	0.26	160	0.044	2	0.87	0.007	0.06	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: August 07, 2012

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000059.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964130	Soil		1.1	61.4	7.9	157	0.5	40.3	12.6	1491	3.15	6.0	<0.5	0.7	66	1.4	0.5	0.1	49	0.77	0.096	23
964131	Soil		0.9	29.2	13.2	84	0.2	22.3	12.4	1037	3.03	9.6	<0.5	0.7	45	0.3	0.6	0.1	58	0.55	0.071	10
964132	Soil		0.8	22.9	7.3	81	0.2	18.8	8.8	702	2.54	6.8	<0.5	0.5	45	0.4	0.4	0.1	50	0.63	0.046	6
964133	Soil		0.8	32.0	7.3	78	0.3	26.3	10.1	664	3.02	9.1	1.2	1.0	43	0.4	0.5	0.1	58	0.53	0.042	8
964134	Soil		0.6	30.9	7.3	143	0.5	23.5	10.0	1046	2.84	5.9	<0.5	0.8	43	0.6	0.4	0.2	49	0.54	0.071	9
964135	Soil		0.8	16.0	7.3	145	0.2	14.9	10.8	1474	2.52	3.0	<0.5	0.5	28	0.9	0.3	0.2	45	0.32	0.186	6
964136	Soil		0.9	57.0	7.8	102	0.5	38.0	13.4	1483	3.02	6.8	2.0	0.7	51	0.6	0.5	0.2	55	0.58	0.087	16
964137	Soil		1.0	36.7	10.4	80	0.1	28.9	15.7	1231	3.64	13.7	3.0	1.2	42	0.3	0.7	0.1	74	0.54	0.065	9
964138	Soil		1.1	38.9	9.7	91	0.1	26.5	12.9	999	3.40	11.9	2.6	0.9	41	0.3	0.6	0.1	68	0.57	0.063	9
964139	Soil		1.0	23.2	7.2	102	0.2	16.7	9.5	832	2.64	5.5	<0.5	0.4	39	0.6	0.2	0.3	57	0.78	0.046	5
964140	Soil		0.9	51.8	7.5	141	0.5	33.4	11.9	1203	3.23	6.6	<0.5	0.6	47	0.8	0.4	0.2	65	0.55	0.064	11
964141	Soil		0.9	37.4	11.7	140	0.5	23.1	10.3	1031	3.29	11.6	<0.5	0.3	37	1.0	0.4	0.1	66	0.50	0.049	6
964142	Soil		1.5	33.3	21.1	1056	0.3	16.1	14.3	4639	3.58	5.0	0.9	0.3	23	14.1	0.2	0.2	63	0.44	0.253	6
964143	Soil		1.0	25.8	19.7	416	0.4	20.3	13.6	1796	3.79	13.2	1.0	0.7	23	3.0	0.4	<0.1	72	0.37	0.085	7
964144	Soil		0.7	13.1	13.6	285	0.3	19.5	9.3	769	3.49	10.5	1.1	0.8	11	0.6	0.3	<0.1	67	0.20	0.167	5
964145	Soil		1.2	12.3	23.3	553	0.2	13.9	10.1	2454	3.42	6.8	<0.5	0.3	20	2.7	0.3	0.1	65	0.37	0.166	5
964146	Soil		1.2	23.5	21.7	319	0.3	21.4	10.2	1081	3.97	15.9	0.8	0.5	22	0.9	0.5	<0.1	77	0.38	0.156	5
964147	Soil		1.1	26.1	41.1	672	0.3	16.3	12.7	2664	4.13	12.2	0.6	0.3	45	3.9	0.4	0.1	76	0.69	0.274	6
964148	Soil		0.9	103.4	9.7	249	1.1	67.8	15.3	1258	5.01	13.2	1.4	1.3	76	1.5	0.8	0.2	82	0.94	0.162	17
964149	Soil		0.9	62.9	47.0	165	0.6	37.6	11.7	883	3.67	10.5	1.9	0.9	51	0.8	1.0	0.1	71	0.71	0.087	14
964150	Soil		0.6	19.1	6.3	78	<0.1	17.6	11.5	1098	3.12	6.4	2.5	0.5	42	0.2	0.3	<0.1	75	0.66	0.068	5
964151	Soil		0.7	16.0	5.8	68	0.1	14.2	10.0	1173	2.82	3.4	5.7	0.4	34	0.1	0.2	<0.1	65	0.52	0.135	5
964152	Soil		0.5	16.6	5.7	69	<0.1	17.7	10.6	737	3.05	5.6	0.9	0.8	25	<0.1	0.3	<0.1	73	0.45	0.097	6
964153	Soil		0.6	40.8	6.8	126	0.2	21.1	11.4	1355	3.12	13.6	0.8	0.2	33	0.9	0.4	0.1	65	0.90	0.104	7
964154	Soil		0.6	40.4	7.4	200	0.2	19.0	12.7	1710	3.37	9.6	0.6	0.2	32	0.8	0.4	0.1	89	0.93	0.137	6
964155	Soil		0.6	20.7	6.6	105	0.2	19.1	9.6	1023	3.16	6.4	2.6	0.6	26	0.3	0.3	<0.1	66	0.44	0.132	7
964156	Soil		1.0	26.9	5.5	82	0.2	18.2	7.7	950	2.34	2.7	<0.5	0.3	57	0.3	0.3	<0.1	50	0.99	0.243	6
964157	Soil		0.5	14.7	5.0	64	0.2	22.0	8.5	523	2.72	4.8	1.1	0.7	32	<0.1	0.4	<0.1	62	0.46	0.101	6
964158	Soil		0.8	19.3	8.2	129	0.2	19.8	10.1	1097	3.43	13.3	<0.5	0.6	25	0.2	0.4	<0.1	73	0.45	0.061	6
964159	Soil		0.9	29.2	7.9	79	0.1	23.2	12.0	811	3.34	8.4	0.7	0.6	44	0.2	0.5	<0.1	69	0.61	0.060	7

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964130	Soil	31	0.67	317	0.014	2	2.32	0.012	0.15	0.1	0.07	8.5	<0.1	<0.05	6	<0.5	<0.2
964131	Soil	23	0.55	178	0.033	3	1.50	0.018	0.09	0.2	0.06	6.2	<0.1	<0.05	5	<0.5	<0.2
964132	Soil	20	0.43	177	0.032	3	1.36	0.013	0.07	0.1	0.05	5.0	<0.1	<0.05	4	<0.5	<0.2
964133	Soil	28	0.51	191	0.035	3	1.71	0.013	0.09	0.1	0.04	7.8	<0.1	<0.05	5	<0.5	<0.2
964134	Soil	23	0.49	241	0.040	2	1.57	0.011	0.11	0.1	0.01	6.7	<0.1	<0.05	5	<0.5	<0.2
964135	Soil	18	0.34	253	0.044	3	1.20	0.007	0.12	0.2	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
964136	Soil	29	0.61	315	0.007	2	2.44	0.012	0.14	<0.1	0.08	9.2	0.1	<0.05	7	0.5	<0.2
964137	Soil	30	0.65	209	0.038	3	1.76	0.017	0.12	0.2	0.06	8.0	<0.1	<0.05	5	0.7	<0.2
964138	Soil	27	0.62	223	0.034	3	1.69	0.017	0.10	0.2	0.05	7.1	<0.1	<0.05	5	<0.5	<0.2
964139	Soil	19	0.34	222	0.031	3	1.31	0.012	0.06	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
964140	Soil	31	0.62	290	0.020	1	2.00	0.014	0.11	0.1	0.03	6.4	<0.1	<0.05	7	<0.5	<0.2
964141	Soil	24	0.52	535	0.022	2	1.48	0.009	0.07	<0.1	0.06	5.6	<0.1	<0.05	5	<0.5	<0.2
964142	Soil	21	0.32	1289	0.030	3	1.52	0.006	0.11	0.2	0.04	3.7	0.1	<0.05	6	<0.5	<0.2
964143	Soil	24	0.58	762	0.028	2	1.70	0.010	0.07	0.1	0.03	6.4	0.2	<0.05	5	<0.5	<0.2
964144	Soil	24	0.40	364	0.024	2	1.82	0.006	0.07	0.1	0.02	4.2	0.1	<0.05	6	<0.5	<0.2
964145	Soil	21	0.36	784	0.021	3	1.64	0.006	0.07	0.1	0.03	3.5	0.1	<0.05	7	<0.5	<0.2
964146	Soil	25	0.54	381	0.029	3	1.83	0.007	0.09	0.2	0.05	4.8	0.1	<0.05	6	<0.5	<0.2
964147	Soil	24	0.40	856	0.025	3	1.72	0.007	0.06	0.2	0.03	4.8	0.1	<0.05	7	0.7	<0.2
964148	Soil	49	0.84	569	0.011	3	4.15	0.020	0.28	0.1	0.08	16.6	0.1	<0.05	11	1.0	<0.2
964149	Soil	34	0.68	297	0.023	3	2.29	0.015	0.15	0.1	0.06	9.5	<0.1	<0.05	7	<0.5	<0.2
964150	Soil	27	0.58	172	0.059	3	1.38	0.013	0.11	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
964151	Soil	26	0.44	239	0.052	2	1.22	0.011	0.09	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
964152	Soil	27	0.56	148	0.071	2	1.22	0.010	0.08	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
964153	Soil	24	0.42	262	0.026	2	1.66	0.008	0.09	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
964154	Soil	23	0.38	363	0.022	3	1.53	0.008	0.09	<0.1	0.04	5.1	<0.1	0.07	5	<0.5	<0.2
964155	Soil	25	0.41	171	0.060	3	1.30	0.009	0.10	0.1	0.04	4.5	<0.1	<0.05	5	<0.5	<0.2
964156	Soil	22	0.36	299	0.039	7	1.14	0.008	0.17	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
964157	Soil	23	0.43	123	0.074	2	1.24	0.010	0.08	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
964158	Soil	23	0.42	149	0.060	2	1.29	0.009	0.07	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
964159	Soil	28	0.56	169	0.050	2	1.43	0.015	0.09	0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: August 07, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
964160	Soil	1.0	22.3	6.1	72	0.2	18.0	8.8	804	2.58	3.9	1.2	0.3	35	0.4	0.3	<0.1	64	0.80	0.072	5
964161	Soil	0.6	21.3	6.5	89	0.2	17.4	11.4	1187	2.96	5.0	0.7	0.5	31	0.5	0.3	<0.1	72	0.50	0.076	6
964162	Soil	1.0	18.3	7.0	68	0.2	17.3	11.2	964	3.13	6.0	0.8	0.7	33	0.1	0.3	<0.1	78	0.51	0.020	5
964163	Soil	0.5	31.9	8.8	78	0.1	22.0	12.1	850	3.35	9.1	1.5	0.9	42	0.2	0.5	<0.1	80	0.66	0.054	9
964164	Soil	1.0	21.9	7.2	89	0.2	21.0	12.2	1068	3.01	4.1	<0.5	0.6	35	0.5	0.3	<0.1	72	0.53	0.032	6
964165	Soil	0.6	24.9	6.3	193	0.3	19.3	9.7	660	2.34	3.4	<0.5	0.3	60	1.1	0.2	<0.1	55	1.00	0.151	6
964166	Soil	0.6	47.7	8.4	455	0.3	24.9	11.3	475	2.78	3.5	0.8	0.7	86	4.5	0.3	<0.1	61	1.65	0.192	7
964167	Soil	0.4	14.0	7.6	83	0.2	17.5	12.3	720	3.15	5.5	0.7	0.9	29	0.2	0.2	<0.1	79	0.41	0.023	6
964168	Soil	0.5	21.7	7.8	84	0.1	17.9	11.2	892	3.23	3.9	<0.5	0.6	60	0.4	0.3	<0.1	70	0.75	0.071	6
964169	Soil	1.0	28.1	7.5	69	0.1	23.4	12.3	1426	3.41	9.4	1.3	0.9	45	0.1	0.4	<0.1	81	0.78	0.062	8
964170	Soil	0.5	13.6	5.6	60	<0.1	17.0	10.6	753	3.16	4.8	<0.5	0.7	24	<0.1	0.3	<0.1	78	0.37	0.068	4
964172	Soil	0.5	21.6	5.8	106	0.1	26.3	10.7	950	2.79	5.9	0.9	0.5	26	0.2	0.4	<0.1	55	0.31	0.037	9
964173	Soil	0.7	24.7	7.6	121	0.1	21.9	9.6	565	2.62	5.9	1.2	0.6	20	<0.1	0.4	0.2	56	0.22	0.030	7
964174	Soil	0.7	25.4	7.4	112	0.2	23.7	9.9	686	2.87	7.3	0.8	0.6	23	0.2	0.4	0.2	58	0.22	0.037	9
964175	Soil	0.6	16.2	5.5	84	<0.1	23.3	7.9	515	2.49	6.4	0.6	0.5	18	<0.1	0.3	0.1	52	0.22	0.038	7
964176	Soil	0.8	22.5	8.0	85	0.1	25.3	14.5	1120	3.14	8.1	1.7	0.6	24	0.2	0.5	0.1	60	0.24	0.028	7
964177	Soil	0.7	30.3	8.4	145	0.2	30.6	13.6	1425	2.95	8.7	<0.5	0.4	46	0.7	0.4	0.2	59	0.55	0.075	8
972750	Soil	0.9	29.6	12.5	78	0.1	26.0	14.0	1070	3.27	11.5	1.3	1.0	30	0.2	0.6	0.1	67	0.35	0.047	9
972751	Soil	0.8	29.0	8.1	83	0.1	27.5	12.1	1008	3.17	10.0	1.2	0.8	27	<0.1	0.6	0.1	63	0.28	0.035	9
972752	Soil	0.7	32.6	8.5	69	<0.1	27.2	14.4	948	3.30	10.4	1.2	1.2	34	<0.1	0.6	<0.1	65	0.41	0.061	8
972753	Soil	0.6	23.6	6.4	52	<0.1	22.2	8.5	432	2.87	8.4	13.2	1.1	27	<0.1	0.5	<0.1	56	0.26	0.027	7
972754	Soil	0.9	33.1	11.4	99	0.1	27.3	13.7	1037	3.53	12.5	1.3	1.0	35	0.4	0.7	<0.1	69	0.43	0.059	8
972755	Soil	1.0	33.4	12.8	108	0.1	27.1	14.4	1175	3.52	13.4	1.1	1.0	34	0.4	0.6	<0.1	68	0.46	0.066	8
972756	Soil	0.9	33.9	11.2	92	0.1	27.3	12.7	947	3.60	13.3	2.2	1.1	34	0.3	0.6	<0.1	70	0.46	0.060	9
972757	Soil	1.2	31.9	10.3	85	0.1	30.7	12.9	897	3.31	11.8	0.9	0.8	35	0.3	0.7	<0.1	62	0.53	0.064	8
972758	Soil	0.8	22.5	7.8	85	<0.1	25.4	11.4	907	3.25	10.7	1.1	0.7	23	0.1	0.5	0.1	62	0.26	0.039	7
972759	Soil	0.7	28.6	11.1	89	0.1	23.9	13.0	994	3.32	12.9	2.4	1.0	29	0.3	0.7	<0.1	64	0.39	0.046	8
972760	Soil	1.0	35.4	14.7	111	0.2	25.2	13.8	1114	3.61	14.9	1.2	1.2	29	0.5	0.6	<0.1	68	0.46	0.054	9
972761	Soil	0.8	29.6	11.8	102	0.1	20.7	9.6	757	2.97	12.7	1.5	0.8	28	0.4	0.5	<0.1	59	0.47	0.061	8
972762	Soil	0.7	26.7	10.8	114	<0.1	20.8	9.6	625	3.01	10.5	1.7	0.9	22	0.1	0.5	0.1	57	0.26	0.034	7

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964160	Soil	25	0.45	211	0.055	4	1.14	0.010	0.22	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
964161	Soil	27	0.43	269	0.065	2	1.18	0.011	0.12	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
964162	Soil	27	0.49	190	0.076	2	1.34	0.012	0.06	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
964163	Soil	30	0.64	226	0.058	3	1.49	0.016	0.07	<0.1	0.04	7.5	<0.1	<0.05	5	<0.5	<0.2
964164	Soil	29	0.51	200	0.068	2	1.39	0.011	0.11	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
964165	Soil	22	0.51	268	0.046	5	1.25	0.009	0.15	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
964166	Soil	28	0.82	289	0.035	8	1.92	0.018	0.11	<0.1	0.02	6.4	<0.1	<0.05	5	0.8	<0.2
964167	Soil	28	0.63	156	0.096	2	1.44	0.014	0.09	<0.1	0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
964168	Soil	29	0.61	211	0.061	3	1.57	0.013	0.11	<0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
964169	Soil	30	0.72	195	0.065	4	1.61	0.039	0.10	0.1	0.03	7.1	<0.1	<0.05	5	<0.5	<0.2
964170	Soil	25	0.60	114	0.070	1	1.20	0.010	0.06	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
964172	Soil	25	0.55	152	0.032	1	1.60	0.010	0.08	0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
964173	Soil	25	0.50	142	0.021	2	1.71	0.009	0.07	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
964174	Soil	26	0.56	145	0.026	2	1.77	0.010	0.07	0.1	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
964175	Soil	24	0.59	102	0.034	2	1.61	0.008	0.06	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
964176	Soil	27	0.57	140	0.029	2	1.71	0.009	0.07	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
964177	Soil	28	0.56	236	0.029	3	1.71	0.010	0.13	<0.1	0.03	4.0	<0.1	0.06	5	<0.5	<0.2
972750	Soil	27	0.59	178	0.036	2	1.60	0.012	0.09	0.1	0.05	5.6	<0.1	<0.05	5	<0.5	<0.2
972751	Soil	28	0.59	173	0.030	2	1.75	0.011	0.07	0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
972752	Soil	28	0.58	152	0.046	2	1.48	0.014	0.08	<0.1	0.04	5.9	<0.1	<0.05	5	<0.5	<0.2
972753	Soil	26	0.56	114	0.053	1	1.48	0.010	0.07	0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
972754	Soil	28	0.62	207	0.041	2	1.62	0.015	0.07	0.1	0.05	6.1	<0.1	<0.05	5	<0.5	<0.2
972755	Soil	28	0.61	223	0.038	2	1.61	0.013	0.12	0.1	0.05	6.6	<0.1	<0.05	5	<0.5	<0.2
972756	Soil	28	0.63	211	0.043	2	1.66	0.014	0.08	0.1	0.05	6.3	<0.1	<0.05	5	<0.5	<0.2
972757	Soil	31	0.60	191	0.037	2	1.52	0.012	0.11	<0.1	0.05	5.4	<0.1	<0.05	5	<0.5	<0.2
972758	Soil	26	0.53	161	0.034	2	1.57	0.010	0.07	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
972759	Soil	26	0.55	204	0.046	1	1.46	0.014	0.07	0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
972760	Soil	29	0.57	290	0.041	2	1.57	0.016	0.08	0.1	0.05	6.8	<0.1	<0.05	5	<0.5	<0.2
972761	Soil	24	0.45	214	0.039	2	1.27	0.010	0.08	0.1	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2
972762	Soil	26	0.56	133	0.038	1	1.55	0.008	0.07	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972763	Soil	1.0	36.7	19.4	153	0.1	25.7	14.2	1357	3.54	15.3	1.1	1.0	26	0.7	0.6	0.1	65	0.40	0.058	9
972764	Soil	0.9	32.1	27.6	169	0.2	22.0	10.7	834	3.40	16.9	1.5	0.9	22	0.4	0.6	<0.1	67	0.34	0.046	9
972765	Soil	0.8	22.4	10.5	102	0.1	25.9	10.9	608	3.17	10.6	1.0	0.8	18	0.2	0.6	0.1	63	0.20	0.028	7
972766	Soil	1.2	40.9	22.0	178	0.3	27.4	14.8	1603	3.96	17.0	1.4	1.0	25	1.1	0.7	<0.1	69	0.45	0.079	9
972767	Soil	1.1	35.0	17.3	134	0.2	25.5	13.5	1380	3.50	14.5	2.1	0.9	29	0.6	0.5	<0.1	65	0.48	0.066	9
972768	Soil	0.8	27.7	10.9	96	0.1	25.2	12.2	939	2.95	9.5	1.5	0.8	27	0.4	0.5	<0.1	60	0.38	0.052	8
972769	Soil	0.8	35.7	7.6	74	<0.1	30.1	11.0	665	3.39	10.7	2.2	1.3	35	<0.1	0.6	<0.1	66	0.42	0.050	9
972770	Soil	0.7	24.7	8.5	81	0.1	25.8	11.0	661	3.09	9.7	1.4	1.1	28	0.2	0.4	<0.1	61	0.36	0.042	8
972771	Soil	0.7	28.2	10.6	83	0.1	24.9	11.2	770	3.02	9.6	1.6	1.1	29	0.3	0.4	<0.1	61	0.40	0.051	9
972772	Soil	0.8	30.4	9.7	88	<0.1	30.2	12.9	811	3.43	11.7	1.3	1.0	27	0.2	0.5	<0.1	67	0.38	0.055	8
972773	Soil	0.7	25.5	11.0	88	0.1	25.3	11.2	759	3.21	11.0	0.6	1.0	24	0.2	0.4	<0.1	65	0.35	0.048	8
972774	Soil	0.9	29.8	12.6	101	0.1	25.4	11.9	1050	3.32	12.6	0.7	1.0	26	0.4	0.6	<0.1	65	0.39	0.065	8
972775	Soil	1.0	30.6	13.3	96	<0.1	27.0	14.8	1171	3.77	13.5	1.0	1.1	26	0.2	0.6	<0.1	73	0.38	0.058	8
972776	Soil	1.0	25.7	8.3	123	0.2	26.9	11.4	1200	3.02	9.4	0.8	0.4	32	0.5	0.4	<0.1	62	0.45	0.054	8
972777	Soil	1.1	44.9	16.3	143	0.2	32.3	15.7	1215	4.04	16.6	1.2	1.3	31	0.5	0.8	<0.1	76	0.45	0.064	9
972778	Soil	0.7	25.3	8.9	74	<0.1	24.7	9.9	559	3.11	10.9	1.6	1.1	22	<0.1	0.6	<0.1	59	0.26	0.034	7
972779	Soil	0.8	33.7	8.7	113	0.2	29.7	10.8	766	3.05	8.6	0.6	0.5	25	0.4	0.5	<0.1	59	0.28	0.053	10
972780	Soil	1.0	36.8	10.9	124	0.3	29.6	11.1	1057	3.14	8.3	0.9	0.6	29	0.7	0.4	0.1	60	0.35	0.045	11
972781	Soil	0.7	21.1	6.8	79	<0.1	19.2	9.0	614	2.71	8.4	3.2	0.4	25	0.3	0.4	0.1	52	0.30	0.034	7
972782	Soil	0.6	11.1	5.7	150	0.1	14.0	7.0	945	2.31	4.5	1.5	0.3	20	0.5	0.2	0.1	49	0.22	0.082	5
972783	Soil	0.6	13.8	6.2	114	0.1	15.4	8.6	834	2.37	5.4	1.0	0.4	26	0.8	0.3	<0.1	51	0.37	0.061	6
972784	Soil	1.1	26.6	16.5	178	0.2	25.2	14.4	1559	3.51	9.3	1.1	0.4	38	0.6	0.3	0.1	70	0.45	0.098	9
972785	Soil	0.7	28.1	8.2	76	0.1	23.8	9.9	595	3.12	10.3	1.9	0.9	26	0.1	0.6	<0.1	59	0.28	0.039	8
972786	Soil	0.5	12.6	6.1	79	0.2	13.9	7.3	692	2.07	3.8	1.0	0.3	22	0.5	0.2	<0.1	43	0.32	0.048	6
972787	Soil	0.7	23.8	8.9	100	0.3	20.5	9.4	714	2.85	8.8	2.1	0.6	26	0.4	0.4	<0.1	57	0.41	0.077	7
972788	Soil	0.8	33.7	12.3	135	0.2	26.6	11.4	1033	3.23	12.2	1.7	0.6	32	0.8	0.5	<0.1	62	0.58	0.068	9
972789	Soil	0.6	20.8	7.6	95	0.2	19.9	7.4	570	2.70	8.6	2.6	0.5	21	0.3	0.3	<0.1	52	0.33	0.039	8
972790	Soil	0.8	27.9	13.4	120	0.2	23.8	11.3	952	3.15	11.5	1.5	0.7	26	0.6	0.5	<0.1	62	0.40	0.070	8
972791	Soil	0.8	97.2	14.7	189	1.4	54.5	14.9	1258	4.68	11.5	1.8	1.3	48	2.1	0.6	0.1	77	1.19	0.107	23
972792	Soil	0.6	24.2	9.6	89	0.1	22.8	10.3	688	3.05	10.2	0.7	0.7	25	0.2	0.5	<0.1	59	0.37	0.052	10

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972763	Soil	28	0.61	252	0.046	1	1.52	0.011	0.09	<0.1	0.04	6.2	0.1	<0.05	5	<0.5	<0.2
972764	Soil	28	0.66	179	0.049	2	1.56	0.011	0.07	<0.1	0.03	6.1	0.1	<0.05	5	<0.5	<0.2
972765	Soil	27	0.62	112	0.043	1	1.73	0.008	0.04	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
972766	Soil	28	0.66	318	0.039	2	1.60	0.013	0.10	0.1	0.04	7.4	0.2	<0.05	6	<0.5	<0.2
972767	Soil	27	0.59	284	0.042	2	1.56	0.011	0.08	0.1	0.04	7.0	0.1	<0.05	5	<0.5	<0.2
972768	Soil	26	0.59	199	0.044	2	1.61	0.011	0.09	0.1	0.03	5.4	0.1	<0.05	5	<0.5	<0.2
972769	Soil	33	0.68	171	0.051	2	1.79	0.014	0.07	0.1	0.04	7.0	<0.1	<0.05	6	<0.5	<0.2
972770	Soil	28	0.59	169	0.054	2	1.60	0.013	0.07	<0.1	0.02	5.4	<0.1	<0.05	5	0.7	<0.2
972771	Soil	27	0.56	191	0.049	1	1.54	0.014	0.07	0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
972772	Soil	30	0.64	165	0.057	2	1.69	0.011	0.07	0.1	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2
972773	Soil	26	0.59	173	0.050	1	1.41	0.010	0.06	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
972774	Soil	26	0.56	205	0.048	2	1.42	0.010	0.08	<0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
972775	Soil	28	0.64	192	0.058	2	1.47	0.014	0.07	0.2	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
972776	Soil	30	0.59	215	0.025	1	1.76	0.010	0.12	0.1	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
972777	Soil	33	0.74	291	0.042	2	1.99	0.016	0.11	0.1	0.05	8.3	0.1	<0.05	6	<0.5	<0.2
972778	Soil	29	0.66	111	0.051	<1	1.62	0.011	0.08	<0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
972779	Soil	28	0.59	163	0.026	2	1.81	0.010	0.09	<0.1	0.04	4.8	<0.1	<0.05	6	<0.5	<0.2
972780	Soil	29	0.57	201	0.029	<1	1.94	0.010	0.10	<0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
972781	Soil	21	0.46	146	0.028	2	1.33	0.007	0.08	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
972782	Soil	17	0.29	228	0.035	2	1.10	0.006	0.06	0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
972783	Soil	19	0.35	183	0.039	1	1.07	0.008	0.07	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
972784	Soil	29	0.61	292	0.015	2	2.06	0.008	0.12	0.1	0.04	5.2	0.1	<0.05	7	<0.5	<0.2
972785	Soil	25	0.60	148	0.043	2	1.62	0.011	0.06	<0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
972786	Soil	16	0.34	163	0.032	2	1.09	0.006	0.05	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
972787	Soil	22	0.49	183	0.039	1	1.31	0.009	0.13	<0.1	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
972788	Soil	26	0.60	324	0.030	2	1.73	0.012	0.11	0.1	0.03	6.6	<0.1	<0.05	5	<0.5	<0.2
972789	Soil	23	0.46	338	0.024	1	1.55	0.010	0.09	<0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
972790	Soil	24	0.49	228	0.039	2	1.44	0.011	0.07	<0.1	0.04	5.6	<0.1	<0.05	5	<0.5	<0.2
972791	Soil	45	0.83	1135	0.011	4	3.99	0.016	0.22	0.1	0.07	14.3	0.1	<0.05	10	0.7	<0.2
972792	Soil	23	0.53	325	0.044	1	1.47	0.009	0.06	0.1	0.03	4.9	<0.1	<0.05	5	0.8	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972793	Soil	1.0	33.3	14.4	98	0.3	21.8	9.6	632	3.35	12.4	<0.5	0.4	25	0.8	0.4	<0.1	67	0.47	0.043	13
972794	Soil	0.9	44.3	21.3	160	0.4	28.8	11.5	899	3.34	11.1	13.5	0.7	28	1.5	0.5	<0.1	61	0.72	0.041	14
972795	Soil	0.8	27.7	16.4	109	0.5	23.2	11.1	812	3.33	12.9	1.0	0.7	25	0.4	0.6	<0.1	65	0.38	0.051	11
972796	Soil	0.9	30.4	12.7	96	0.1	23.4	10.2	735	3.43	13.4	1.0	1.1	22	0.2	0.6	<0.1	69	0.29	0.046	7
972797	Soil	0.6	16.2	17.5	78	<0.1	17.6	9.4	573	3.10	10.4	<0.5	0.4	18	<0.1	0.4	<0.1	65	0.29	0.036	5
972798	Soil	0.5	14.2	9.3	89	<0.1	15.3	7.9	619	2.57	7.5	0.7	0.5	19	0.3	0.4	<0.1	53	0.28	0.037	6
972799	Soil	0.8	41.3	10.5	99	0.1	31.6	12.8	810	3.82	13.2	1.8	1.3	33	<0.1	0.7	<0.1	71	0.55	0.048	9
972800	Soil	0.6	41.6	10.7	110	0.2	33.3	13.7	919	3.55	11.9	0.8	1.1	39	0.6	0.6	<0.1	66	0.94	0.074	8
972801	Soil	0.8	24.0	11.0	108	0.2	21.8	9.6	625	3.17	10.5	0.8	0.7	24	0.3	0.5	<0.1	65	0.26	0.047	7
972802	Soil	0.8	29.0	10.0	96	<0.1	23.6	10.3	648	3.39	11.8	1.6	0.9	24	0.2	0.6	<0.1	65	0.30	0.052	8
972803	Soil	0.9	42.5	15.5	127	0.1	31.7	14.4	1178	3.73	13.1	1.5	1.1	34	0.4	0.6	<0.1	72	0.56	0.060	9
972804	Soil	0.9	30.6	19.2	139	0.1	21.5	11.6	981	3.41	12.6	1.4	0.9	26	0.7	0.5	<0.1	65	0.42	0.060	9
972805	Soil	1.3	35.3	23.3	151	0.1	23.3	12.8	1368	3.55	14.1	1.8	0.8	28	0.6	0.6	<0.1	68	0.50	0.078	9
972806	Soil	1.0	51.2	19.6	170	0.3	27.7	15.2	1383	3.94	14.7	1.5	1.0	31	0.8	0.7	<0.1	77	0.55	0.074	9
972807	Soil	1.3	59.9	23.3	166	0.3	23.5	14.3	1435	3.63	16.4	1.8	0.9	28	1.0	0.8	<0.1	70	0.52	0.071	9
972808	Soil	1.0	49.6	17.9	141	0.3	27.9	14.3	1429	3.38	12.8	1.7	0.6	31	0.8	0.6	<0.1	65	0.60	0.073	10
972809	Soil	0.9	37.7	13.7	112	0.2	28.2	13.5	1160	3.59	12.4	0.6	1.0	30	0.4	0.7	0.2	70	0.51	0.069	9
972810	Soil	1.1	36.6	16.6	148	0.2	19.3	12.0	1541	3.92	13.5	1.5	0.6	18	0.5	0.6	0.1	66	0.35	0.088	9
972811	Soil	0.6	27.1	11.3	82	<0.1	24.3	10.7	791	3.25	10.8	2.1	1.1	20	0.1	0.4	<0.1	62	0.34	0.035	8
972812	Soil	1.2	38.6	18.6	159	0.2	22.9	13.2	1590	4.08	15.1	1.3	0.9	23	0.7	0.8	<0.1	64	0.52	0.067	10
972813	Soil	0.8	39.9	12.4	101	0.2	29.7	12.7	964	3.55	12.5	5.6	1.1	24	0.3	0.7	<0.1	65	0.45	0.047	10
972814	Soil	1.0	35.3	14.2	126	0.2	26.4	12.6	1200	3.53	13.9	1.7	0.6	23	0.4	0.6	<0.1	66	0.41	0.050	9
972815	Soil	1.2	51.1	20.5	160	0.2	25.6	13.6	1405	3.89	17.2	2.7	0.8	26	0.8	1.0	<0.1	67	0.51	0.061	10
972816	Soil	1.0	42.7	12.3	108	0.1	36.8	15.1	992	3.74	13.4	2.3	1.2	32	0.2	0.7	<0.1	66	0.55	0.061	9
972817	Soil	1.0	50.1	26.3	188	0.2	32.5	15.3	1310	4.19	18.4	1.6	1.3	32	0.8	1.3	0.1	71	0.57	0.060	10
972818	Soil	1.3	58.9	19.3	201	0.2	24.6	14.5	1375	4.04	15.7	1.3	0.9	29	1.0	1.7	<0.1	65	0.43	0.064	9
972819	Soil	0.9	39.1	18.3	193	0.2	24.1	12.3	1034	3.65	14.2	0.7	0.8	29	0.8	0.8	0.1	69	0.45	0.063	8
972820	Soil	1.2	36.2	17.2	163	0.2	24.0	10.9	803	3.71	13.7	1.2	1.0	25	0.4	0.7	<0.1	68	0.32	0.051	8
972821	Soil	1.0	33.9	18.9	200	0.3	20.8	11.2	966	3.58	13.3	<0.5	0.9	19	0.7	0.6	<0.1	70	0.34	0.045	8
972822	Soil	1.0	8.1	12.4	149	0.3	8.0	5.1	251	3.18	10.1	<0.5	0.3	10	1.1	0.4	0.1	78	0.20	0.048	5

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Project: ZNT  
 Report Date: August 07, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972793	Soil	24	0.42	677	0.019	1	1.76	0.009	0.07	0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
972794	Soil	27	0.58	522	0.024	1	1.81	0.010	0.08	<0.1	0.04	7.5	0.1	<0.05	6	0.6	<0.2
972795	Soil	23	0.57	242	0.044	1	1.50	0.013	0.07	0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
972796	Soil	26	0.60	236	0.057	<1	1.52	0.010	0.05	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
972797	Soil	23	0.50	227	0.036	1	1.29	0.008	0.05	0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
972798	Soil	19	0.37	190	0.041	1	1.14	0.007	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
972799	Soil	34	0.68	295	0.038	<1	2.08	0.015	0.08	<0.1	0.06	8.3	<0.1	<0.05	7	<0.5	<0.2
972800	Soil	31	0.72	380	0.028	2	2.00	0.019	0.11	<0.1	0.06	8.0	<0.1	<0.05	6	<0.5	<0.2
972801	Soil	24	0.51	192	0.038	1	1.64	0.008	0.06	0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
972802	Soil	26	0.58	166	0.043	2	1.69	0.011	0.06	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
972803	Soil	29	0.67	314	0.039	1	1.85	0.019	0.09	0.1	0.04	7.9	<0.1	<0.05	6	<0.5	<0.2
972804	Soil	23	0.55	264	0.041	1	1.42	0.013	0.05	0.1	0.04	6.5	0.1	<0.05	5	<0.5	<0.2
972805	Soil	24	0.60	301	0.043	2	1.47	0.013	0.12	0.1	0.04	6.6	0.1	<0.05	5	<0.5	<0.2
972806	Soil	27	0.65	298	0.037	3	1.72	0.013	0.15	<0.1	0.09	8.5	<0.1	<0.05	6	0.5	<0.2
972807	Soil	25	0.58	288	0.045	2	1.49	0.013	0.12	<0.1	0.10	7.1	0.1	<0.05	5	<0.5	<0.2
972808	Soil	27	0.61	370	0.028	2	1.72	0.013	0.14	0.1	0.11	7.0	0.1	0.06	5	<0.5	<0.2
972809	Soil	27	0.66	270	0.039	<1	1.75	0.015	0.10	<0.1	0.05	7.5	0.1	<0.05	6	<0.5	<0.2
972810	Soil	21	0.51	298	0.028	<1	1.56	0.011	0.08	0.1	0.04	8.1	0.1	<0.05	6	<0.5	<0.2
972811	Soil	27	0.62	226	0.037	1	1.77	0.011	0.05	0.1	0.03	6.4	<0.1	<0.05	5	<0.5	<0.2
972812	Soil	23	0.57	371	0.032	1	1.61	0.013	0.10	0.2	0.04	8.5	0.1	<0.05	5	0.5	<0.2
972813	Soil	30	0.65	338	0.029	<1	2.01	0.014	0.09	<0.1	0.06	8.6	<0.1	<0.05	6	0.7	<0.2
972814	Soil	28	0.62	426	0.021	<1	1.97	0.010	0.08	0.1	0.05	6.7	0.1	<0.05	6	<0.5	<0.2
972815	Soil	26	0.58	312	0.031	<1	1.65	0.011	0.09	0.1	0.04	8.6	0.1	<0.05	5	<0.5	<0.2
972816	Soil	32	0.76	278	0.031	<1	1.93	0.013	0.12	<0.1	0.06	7.6	<0.1	<0.05	6	<0.5	<0.2
972817	Soil	31	0.74	419	0.036	3	1.96	0.014	0.12	0.1	0.06	9.3	0.1	<0.05	6	<0.5	<0.2
972818	Soil	26	0.56	620	0.032	2	1.52	0.010	0.09	0.1	0.04	7.6	0.3	<0.05	5	<0.5	<0.2
972819	Soil	27	0.60	366	0.031	3	1.78	0.009	0.11	0.1	0.06	6.8	0.2	<0.05	5	<0.5	<0.2
972820	Soil	26	0.56	499	0.035	2	1.66	0.008	0.08	0.1	0.05	6.9	0.1	<0.05	5	<0.5	<0.2
972821	Soil	25	0.54	318	0.025	2	1.82	0.011	0.06	0.1	0.04	6.7	0.2	<0.05	6	<0.5	<0.2
972822	Soil	16	0.19	132	0.025	1	1.13	0.005	0.07	0.2	0.05	2.5	<0.1	<0.05	6	<0.5	<0.2

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Project: ZNT  
 Report Date: August 07, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972823	Soil		1.4	47.8	22.4	263	0.6	18.4	10.3	1035	3.57	13.7	0.5	0.3	16	1.6	0.5	<0.1	61	0.33	0.079	7
972824	Soil		1.1	30.1	23.6	348	0.8	18.7	8.7	711	3.61	11.5	<0.5	0.7	15	2.4	0.6	0.1	67	0.27	0.066	6
972825	Soil		1.2	43.2	29.5	210	0.2	25.5	12.7	1158	3.99	24.9	0.8	1.0	25	1.0	0.8	<0.1	76	0.33	0.053	9
972826	Soil		0.8	25.0	14.4	128	0.2	19.1	10.3	820	3.31	12.1	<0.5	0.8	20	0.5	0.6	0.1	68	0.26	0.054	7
972827	Soil		1.0	31.7	15.1	133	0.4	21.2	14.2	1083	3.24	8.2	0.7	0.4	35	1.0	0.4	0.2	73	0.46	0.053	11
972828	Soil		0.7	17.2	17.8	158	0.1	17.0	10.7	766	3.34	11.9	0.7	0.8	20	0.5	0.6	<0.1	67	0.29	0.023	5
972829	Soil		0.7	25.6	12.7	132	<0.1	24.8	10.4	442	3.59	11.6	0.8	1.0	18	0.3	0.6	<0.1	66	0.19	0.042	6
972830	Soil		0.9	26.0	12.3	119	0.3	23.7	9.8	334	3.86	12.4	0.5	1.1	11	0.2	0.7	0.1	71	0.09	0.081	5
972831	Soil		1.1	16.2	9.5	65	<0.1	13.4	6.4	369	3.18	14.2	0.7	0.8	10	0.2	0.9	0.2	82	0.09	0.053	5
972832	Soil		0.8	17.8	7.1	88	0.3	18.1	7.2	438	2.83	7.6	1.7	0.6	16	0.2	0.6	<0.1	59	0.17	0.037	6
972833	Soil		0.8	20.1	10.3	100	0.1	18.2	7.9	425	3.31	10.0	<0.5	0.7	14	0.2	0.5	0.2	65	0.12	0.036	6
972834	Soil		0.9	37.3	15.3	140	<0.1	25.2	11.5	772	3.71	14.2	2.0	1.4	15	0.5	0.6	0.1	69	0.20	0.050	7
972835	Soil		0.8	9.0	7.9	56	0.4	3.4	2.6	107	2.69	5.1	1.7	0.5	10	0.5	0.4	0.1	73	0.13	0.026	5
972836	Soil		0.9	11.9	8.1	77	0.1	9.2	4.5	190	2.85	9.5	0.8	0.3	12	0.4	0.5	0.1	66	0.18	0.029	6
972837	Soil		0.8	12.9	8.0	87	0.2	11.1	5.6	252	3.30	9.2	1.3	0.6	8	0.4	0.4	0.1	72	0.11	0.060	5
972838	Soil		0.9	28.8	10.5	121	0.3	22.2	11.3	1019	3.38	10.8	<0.5	0.5	24	0.5	0.4	<0.1	68	0.44	0.063	9
972839	Soil		0.5	12.8	7.8	94	<0.1	14.5	10.0	998	2.68	6.5	3.0	0.5	16	0.2	0.3	<0.1	61	0.26	0.025	5
972840	Soil		0.9	19.0	9.7	101	<0.1	20.2	9.8	589	3.36	11.9	1.0	0.7	17	0.2	0.4	<0.1	75	0.21	0.031	5
972841	Soil		1.1	15.1	10.9	131	<0.1	13.6	7.9	349	4.67	16.9	<0.5	0.4	9	0.4	0.5	<0.1	92	0.09	0.054	4
972842	Soil		0.6	27.3	9.1	166	0.2	18.0	12.4	1585	3.62	12.4	<0.5	0.6	21	0.5	0.5	<0.1	77	0.48	0.029	8
972843	Soil		1.2	35.7	16.1	165	0.1	26.4	14.4	1391	4.06	19.2	1.5	1.4	27	0.5	0.7	<0.1	77	0.57	0.078	9
972844	Soil		0.9	19.0	8.1	136	0.1	17.3	9.6	492	4.46	16.5	<0.5	1.0	8	0.2	0.5	0.1	81	0.08	0.095	5
972845	Soil		0.6	12.0	6.6	130	0.3	10.9	7.4	546	2.96	8.0	<0.5	0.6	17	0.3	0.4	<0.1	68	0.32	0.022	6
972846	Soil		1.1	34.4	9.5	151	0.6	15.2	9.1	533	3.94	15.2	<0.5	0.1	11	0.5	0.6	<0.1	88	0.10	0.049	10
972847	Soil		1.4	30.7	14.2	175	0.1	18.8	14.0	1415	4.33	20.1	0.7	0.8	16	0.5	0.7	<0.1	90	0.25	0.060	9
972848	Soil		0.9	17.1	9.2	129	0.3	13.0	7.2	546	3.92	14.6	<0.5	0.8	7	0.4	0.5	<0.1	73	0.08	0.119	4
972849	Soil		1.3	19.7	7.7	155	0.3	13.4	7.9	599	3.84	15.8	<0.5	0.2	9	0.3	0.6	<0.1	80	0.12	0.069	7
972850	Soil		1.0	28.4	9.3	152	0.1	16.4	14.4	1534	3.95	15.3	1.0	0.6	12	0.4	0.5	<0.1	87	0.24	0.035	12
972851	Soil		1.0	19.0	10.3	150	0.3	12.6	10.6	571	4.35	17.7	<0.5	0.7	8	0.4	0.6	<0.1	92	0.11	0.171	5
972852	Soil		1.2	19.7	7.2	141	0.1	14.4	8.6	575	4.37	17.6	<0.5	0.8	9	0.3	0.5	<0.1	87	0.10	0.091	4

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CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972823	Soil	22	0.45	298	0.017	2	1.83	0.011	0.09	0.2	0.07	6.0	0.4	0.06	6	<0.5	<0.2
972824	Soil	24	0.45	262	0.018	2	2.17	0.007	0.07	0.1	0.08	5.1	0.4	<0.05	6	<0.5	<0.2
972825	Soil	29	0.56	827	0.026	2	1.76	0.012	0.07	<0.1	0.04	8.7	0.2	<0.05	6	<0.5	<0.2
972826	Soil	23	0.51	256	0.028	2	1.70	0.006	0.08	<0.1	0.05	5.2	0.1	<0.05	5	<0.5	<0.2
972827	Soil	29	0.59	442	0.009	1	2.32	0.008	0.07	0.1	0.05	5.9	0.1	<0.05	7	<0.5	<0.2
972828	Soil	22	0.53	211	0.045	1	1.35	0.013	0.05	0.1	0.02	4.3	0.1	<0.05	5	<0.5	<0.2
972829	Soil	27	0.60	153	0.034	2	2.05	0.008	0.04	0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
972830	Soil	30	0.54	147	0.020	1	2.79	0.007	0.04	0.1	0.08	5.2	<0.1	<0.05	7	<0.5	<0.2
972831	Soil	20	0.39	86	0.035	<1	1.41	0.005	0.04	0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
972832	Soil	22	0.51	133	0.032	<1	1.46	0.005	0.05	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
972833	Soil	23	0.52	225	0.021	<1	1.64	0.005	0.04	<0.1	0.04	3.9	0.2	<0.05	6	<0.5	<0.2
972834	Soil	26	0.58	331	0.033	<1	1.99	0.007	0.06	0.1	0.04	6.3	0.1	<0.05	5	<0.5	<0.2
972835	Soil	9	0.07	141	0.027	<1	0.66	0.006	0.02	0.2	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
972836	Soil	15	0.21	217	0.024	<1	1.01	0.006	0.03	0.2	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
972837	Soil	18	0.28	112	0.025	<1	1.38	0.005	0.04	0.2	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
972838	Soil	26	0.59	478	0.017	1	1.85	0.008	0.07	0.1	0.06	6.6	<0.1	<0.05	5	<0.5	<0.2
972839	Soil	19	0.47	234	0.020	<1	1.35	0.007	0.04	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
972840	Soil	23	0.54	219	0.021	<1	1.65	0.008	0.04	<0.1	0.03	4.6	<0.1	<0.05	6	<0.5	<0.2
972841	Soil	20	0.42	163	0.019	<1	1.86	0.005	0.03	0.1	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
972842	Soil	22	0.52	355	0.014	2	1.78	0.012	0.04	<0.1	0.05	7.3	<0.1	<0.05	5	<0.5	<0.2
972843	Soil	26	0.70	430	0.036	2	1.66	0.013	0.09	0.1	0.06	10.2	0.1	<0.05	5	<0.5	<0.2
972844	Soil	23	0.51	238	0.016	1	2.53	0.005	0.04	0.1	0.04	5.6	<0.1	<0.05	7	<0.5	<0.2
972845	Soil	17	0.47	436	0.025	<1	1.20	0.008	0.03	<0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
972846	Soil	22	0.48	434	0.010	2	1.99	0.007	0.06	0.1	0.05	4.8	<0.1	<0.05	7	<0.5	<0.2
972847	Soil	23	0.61	350	0.030	1	1.75	0.010	0.08	0.1	0.04	8.2	<0.1	<0.05	6	<0.5	<0.2
972848	Soil	19	0.43	140	0.022	1	1.65	0.006	0.04	0.1	0.06	4.4	<0.1	<0.05	6	<0.5	<0.2
972849	Soil	18	0.49	216	0.013	1	1.63	0.005	0.06	<0.1	0.06	4.3	<0.1	<0.05	6	<0.5	<0.2
972850	Soil	23	0.62	1469	0.018	1	1.83	0.008	0.05	0.1	0.03	8.9	<0.1	<0.05	7	<0.5	<0.2
972851	Soil	20	0.38	157	0.020	<1	2.06	0.006	0.04	0.1	0.07	5.3	<0.1	<0.05	6	<0.5	<0.2
972852	Soil	23	0.51	219	0.017	<1	2.34	0.005	0.04	0.2	0.04	5.9	<0.1	<0.05	8	<0.5	<0.2

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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
972853	Soil			0.8	9.4	9.3	91	0.2	8.1	5.0	295	3.51	10.1	<0.5	0.5	12	0.3	0.4	0.2	88	0.13	0.118	5
972854	Soil			0.4	11.0	6.0	113	0.1	14.4	7.0	360	2.69	6.2	<0.5	0.4	28	0.2	0.3	<0.1	64	0.33	0.024	6
972855	Soil			1.1	22.9	13.0	211	0.2	18.6	10.0	440	4.25	17.6	6.5	0.5	21	0.6	0.5	<0.1	91	0.34	0.045	6
972856	Soil			0.8	17.7	9.3	125	<0.1	15.1	9.3	460	3.77	13.3	<0.5	0.5	19	0.3	0.6	<0.1	83	0.34	0.043	6
972857	Soil			0.6	14.0	8.5	77	0.2	8.0	5.1	297	3.05	7.9	<0.5	0.3	13	0.3	0.4	0.1	77	0.17	0.027	6
972858	Soil			0.6	17.8	6.8	114	0.1	13.4	7.4	499	3.25	8.8	<0.5	0.2	14	0.3	0.3	<0.1	74	0.18	0.034	6
972859	Soil			0.6	31.3	8.4	138	0.2	21.4	10.4	942	3.68	9.4	<0.5	0.5	26	0.6	0.4	0.1	73	0.63	0.049	8
972860	Soil			0.7	19.4	9.4	116	0.1	22.2	8.9	525	3.87	12.3	0.8	0.6	15	0.3	0.5	<0.1	74	0.18	0.071	5
972861	Soil			0.6	19.1	10.2	90	0.1	22.4	11.1	675	3.36	10.9	<0.5	0.9	25	0.2	0.5	<0.1	65	0.40	0.036	7
972862	Soil			0.8	31.4	8.7	79	<0.1	30.4	10.8	564	3.54	10.9	<0.5	1.3	26	<0.1	0.7	<0.1	61	0.28	0.034	7
972863	Soil			0.8	16.5	7.8	91	0.1	21.1	8.2	491	2.60	8.3	<0.5	0.5	23	<0.1	0.4	0.1	54	0.24	0.033	6
972864	Soil			0.7	12.3	5.0	68	<0.1	20.6	7.8	333	2.68	6.4	<0.5	0.7	17	0.1	0.4	<0.1	57	0.14	0.020	5
972865	Soil			0.7	21.1	7.7	60	<0.1	24.4	10.4	694	3.20	11.0	<0.5	1.0	26	<0.1	0.6	<0.1	65	0.25	0.042	7
972866	Soil			0.5	19.2	6.0	56	<0.1	21.0	8.0	437	2.85	8.2	<0.5	1.0	24	<0.1	0.5	<0.1	58	0.23	0.039	6
972867	Soil			0.8	19.2	5.3	81	<0.1	21.9	8.3	565	2.63	5.5	<0.5	0.6	23	<0.1	0.3	<0.1	52	0.20	0.042	7
965550	Soil			0.6	18.8	8.0	101	<0.1	26.2	13.3	618	3.55	9.3	<0.5	0.9	23	0.1	0.3	<0.1	62	0.29	0.049	8
965551	Soil			0.8	13.0	6.8	57	<0.1	19.3	9.9	383	3.00	9.3	<0.5	0.8	18	<0.1	0.5	0.1	55	0.16	0.033	5
965552	Soil			0.5	27.4	8.7	90	0.2	24.6	10.9	927	2.98	8.9	1.2	1.0	35	0.2	0.5	0.2	55	0.44	0.056	8
965553	Soil			0.5	22.3	7.4	64	0.1	21.1	7.2	472	2.72	7.8	1.6	1.0	24	<0.1	0.4	0.2	52	0.27	0.022	8
965554	Soil			0.7	22.9	7.2	79	<0.1	21.5	8.7	613	2.62	6.6	1.0	0.6	29	<0.1	0.6	0.1	51	0.27	0.044	7
965555	Soil			0.6	17.0	5.8	104	0.1	21.2	8.9	807	2.53	4.7	2.1	0.7	23	0.2	0.4	<0.1	50	0.22	0.042	8
965556	Soil			0.6	15.9	6.4	50	<0.1	18.3	7.3	395	2.55	7.8	<0.5	0.8	22	<0.1	0.5	<0.1	52	0.17	0.032	6
965557	Soil			0.3	12.8	4.6	66	<0.1	16.8	6.6	347	2.46	5.2	1.1	0.7	19	<0.1	0.4	<0.1	51	0.17	0.034	6
965558	Soil			0.6	10.3	4.9	85	<0.1	18.6	7.8	664	2.42	5.0	1.1	0.6	23	<0.1	0.4	<0.1	49	0.22	0.024	5
965559	Soil			0.4	19.1	6.0	50	<0.1	16.5	6.5	302	2.72	8.6	<0.5	1.0	29	<0.1	0.6	<0.1	53	0.25	0.028	7
965560	Soil			0.4	18.1	6.3	52	<0.1	19.8	7.1	377	2.76	8.5	<0.5	1.0	26	<0.1	0.5	<0.1	56	0.19	0.026	5
965561	Soil			0.6	16.1	6.4	54	<0.1	21.8	8.6	419	2.98	9.0	<0.5	0.9	22	<0.1	0.6	<0.1	59	0.16	0.025	5
965562	Soil			0.6	18.5	7.2	69	<0.1	21.6	9.0	540	2.90	10.4	<0.5	1.0	29	<0.1	0.6	<0.1	57	0.27	0.049	6
965563	Soil			0.4	12.0	5.5	145	<0.1	19.7	8.6	450	2.57	6.3	<0.5	0.5	24	0.3	0.5	<0.1	47	0.24	0.088	5
965564	Soil			0.6	17.6	8.7	65	<0.1	21.8	9.5	606	2.95	11.5	1.1	0.9	29	0.1	0.5	0.1	59	0.30	0.056	5

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
972853	Soil	17	0.23	135	0.040	<1	1.08	0.006	0.04	0.2	0.04	4.0	<0.1	<0.05	8	<0.5	<0.2
972854	Soil	20	0.54	358	0.033	1	1.47	0.013	0.03	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
972855	Soil	24	0.55	429	0.016	1	2.22	0.008	0.05	0.1	0.03	5.8	<0.1	<0.05	7	<0.5	<0.2
972856	Soil	21	0.50	267	0.030	1	1.40	0.007	0.04	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
972857	Soil	15	0.26	285	0.026	<1	1.10	0.006	0.03	0.2	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
972858	Soil	20	0.50	312	0.019	1	1.51	0.007	0.04	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
972859	Soil	26	0.71	620	0.013	1	2.02	0.008	0.06	0.1	0.04	7.9	<0.1	<0.05	7	<0.5	<0.2
972860	Soil	24	0.56	171	0.023	1	1.80	0.007	0.04	0.1	0.02	4.9	<0.1	<0.05	6	<0.5	<0.2
972861	Soil	25	0.66	331	0.039	2	1.55	0.013	0.06	0.1	0.03	9.3	<0.1	<0.05	5	<0.5	<0.2
972862	Soil	32	0.76	142	0.039	2	2.04	0.012	0.10	<0.1	0.03	7.6	<0.1	<0.05	6	<0.5	<0.2
972863	Soil	23	0.57	117	0.031	1	1.59	0.009	0.07	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
972864	Soil	21	0.42	121	0.040	1	1.41	0.007	0.04	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
972865	Soil	25	0.59	100	0.050	1	1.41	0.010	0.05	0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
972866	Soil	21	0.47	93	0.051	1	1.17	0.010	0.04	<0.1	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
972867	Soil	23	0.50	136	0.023	2	1.74	0.009	0.06	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
965550	Soil	26	0.53	215	0.023	<1	1.67	0.007	0.12	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
965551	Soil	20	0.48	113	0.035	1	1.31	0.011	0.05	<0.1	0.04	3.8	<0.1	<0.05	4	<0.5	<0.2
965552	Soil	25	0.55	233	0.020	1	1.74	0.013	0.10	<0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
965553	Soil	23	0.56	145	0.031	1	1.50	0.014	0.07	0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
965554	Soil	24	0.54	149	0.020	<1	1.58	0.009	0.08	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
965555	Soil	21	0.43	146	0.037	<1	1.42	0.010	0.06	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
965556	Soil	22	0.50	101	0.041	<1	1.23	0.018	0.06	0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
965557	Soil	19	0.41	113	0.032	<1	1.24	0.008	0.04	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
965558	Soil	18	0.37	142	0.042	<1	1.13	0.011	0.05	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
965559	Soil	20	0.40	112	0.052	<1	1.06	0.019	0.04	<0.1	0.02	4.4	<0.1	<0.05	3	<0.5	<0.2
965560	Soil	21	0.46	105	0.051	<1	1.22	0.013	0.05	0.1	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
965561	Soil	22	0.49	120	0.039	1	1.50	0.011	0.03	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
965562	Soil	21	0.48	96	0.054	<1	1.20	0.016	0.05	0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
965563	Soil	19	0.47	155	0.041	<1	1.32	0.012	0.05	0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
965564	Soil	22	0.49	121	0.051	<1	1.34	0.014	0.07	0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
965565	Soil	0.5	20.4	8.3	69	<0.1	20.7	9.9	617	2.84	10.5	1.6	0.9	30	0.1	0.6	0.1	55	0.32	0.055	7
965566	Soil	0.7	16.6	10.2	141	0.1	21.6	9.5	823	3.10	9.5	0.9	0.6	29	0.5	0.5	0.1	59	0.32	0.063	6
965567	Soil	1.0	24.4	18.2	143	0.2	24.0	11.5	1511	3.47	44.2	3.6	0.7	28	0.6	0.6	0.1	63	0.29	0.078	6
965568	Soil	0.6	21.1	13.2	109	0.2	20.6	9.2	798	3.10	12.4	0.8	0.9	25	0.4	0.5	<0.1	60	0.30	0.051	7
965569	Soil	0.9	12.1	20.4	382	0.5	9.9	9.3	3077	2.65	5.9	<0.5	0.2	54	3.7	0.4	0.1	51	1.12	0.118	4
965570	Soil	1.6	35.9	32.2	204	0.4	27.0	14.0	1302	3.95	22.0	20.4	1.2	22	0.8	0.8	<0.1	71	0.39	0.062	9
965571	Soil	2.0	21.4	45.0	277	0.4	23.2	12.8	1114	4.07	22.1	1.6	0.9	18	0.9	0.7	0.2	77	0.28	0.065	6
965572	Soil	0.6	14.5	7.3	71	<0.1	19.8	8.2	490	2.68	8.4	1.1	0.9	20	<0.1	0.5	<0.1	52	0.24	0.039	5
965573	Soil	0.4	15.2	6.4	61	<0.1	17.9	6.6	331	2.35	6.9	2.8	1.0	26	<0.1	0.3	<0.1	47	0.29	0.044	7
965574	Soil	0.5	14.9	6.5	261	0.1	17.8	9.9	1132	2.66	5.7	<0.5	0.4	26	1.8	0.4	<0.1	50	0.36	0.079	5
965575	Soil	0.5	12.9	5.5	163	<0.1	18.3	7.4	386	2.47	5.8	1.8	0.6	25	0.5	0.5	<0.1	45	0.34	0.086	5
965576	Soil	0.6	22.9	7.8	144	0.2	23.0	10.0	756	2.76	7.8	2.1	0.6	27	0.6	0.5	<0.1	50	0.34	0.075	7
965577	Soil	0.6	19.9	7.7	74	<0.1	18.9	8.1	500	2.71	10.4	2.0	0.9	25	0.2	0.5	<0.1	53	0.26	0.043	6
965578	Soil	0.5	19.7	8.2	62	<0.1	18.8	8.1	496	2.65	9.2	2.6	0.8	23	0.1	0.4	<0.1	50	0.23	0.035	6
965579	Soil	0.4	13.1	5.4	65	<0.1	18.9	6.9	355	2.48	6.6	1.0	0.6	22	<0.1	0.4	<0.1	49	0.25	0.038	6
965580	Soil	0.6	26.8	8.2	103	0.3	23.1	10.3	1044	2.62	7.0	1.4	0.6	32	0.4	0.4	<0.1	47	0.41	0.062	14
965581	Soil	0.5	13.5	6.0	64	<0.1	19.0	8.4	497	2.46	7.1	2.7	0.7	24	<0.1	0.4	<0.1	47	0.24	0.037	6
965582	Soil	0.6	13.6	5.7	119	0.2	17.5	6.7	422	2.29	5.9	<0.5	0.7	18	0.1	0.4	<0.1	44	0.15	0.024	6
965583	Soil	0.5	9.7	6.3	95	0.2	14.1	5.9	453	2.16	6.3	1.1	0.3	16	0.4	0.3	<0.1	45	0.13	0.041	4
965584	Soil	0.4	16.4	8.5	148	0.2	18.6	10.2	968	2.37	6.7	<0.5	0.6	27	0.8	0.3	<0.1	48	0.36	0.034	6
965585	Soil	0.9	20.5	10.0	177	0.3	21.4	9.3	1164	2.66	9.7	6.5	0.5	25	1.0	0.5	<0.1	49	0.46	0.034	8
965586	Soil	0.6	15.9	7.5	84	0.1	19.7	8.1	491	2.64	9.7	0.9	0.8	20	0.3	0.5	<0.1	50	0.24	0.032	6
965587	Soil	1.1	12.5	13.1	291	0.2	15.7	10.6	650	3.24	12.5	1.2	0.6	15	1.1	0.5	<0.1	67	0.24	0.050	5
965588	Soil	1.0	19.5	9.9	204	0.2	18.0	9.6	782	3.63	22.8	0.9	0.4	14	0.6	0.5	0.1	73	0.33	0.058	5
965589	Soil	0.8	13.5	11.0	275	0.3	20.1	8.9	972	2.88	13.2	<0.5	0.4	22	2.1	0.5	<0.1	58	0.40	0.041	5
965590	Soil	1.0	16.9	9.4	268	0.4	22.7	9.4	519	3.24	13.1	<0.5	0.8	17	0.7	0.7	<0.1	59	0.25	0.067	6
965591	Soil	1.5	14.8	16.8	363	0.4	11.8	9.9	1568	3.88	23.7	<0.5	0.3	15	2.0	0.5	<0.1	63	0.35	0.079	6
965592	Soil	0.8	24.8	16.7	241	0.3	22.1	10.4	862	3.32	16.2	<0.5	1.2	20	0.5	0.6	<0.1	61	0.32	0.038	7
965593	Soil	5.7	20.3	44.3	831	4.3	12.2	9.1	2104	4.94	63.4	0.9	0.8	13	4.6	1.2	<0.1	57	0.33	0.047	16
965594	Soil	1.0	14.5	17.3	633	1.0	17.5	9.6	913	3.25	16.8	<0.5	0.5	17	4.7	0.7	<0.1	58	0.34	0.043	5

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Project: ZNT  
 Report Date: August 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965565	Soil	22	0.48	124	0.053	1	1.24	0.011	0.08	0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
965566	Soil	23	0.52	165	0.037	<1	1.32	0.009	0.09	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
965567	Soil	23	0.51	203	0.039	<1	1.58	0.013	0.08	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
965568	Soil	21	0.48	176	0.038	<1	1.32	0.009	0.05	0.1	0.04	5.5	<0.1	<0.05	4	<0.5	<0.2
965569	Soil	14	0.27	646	0.031	8	0.91	0.009	0.11	0.2	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
965570	Soil	28	0.60	389	0.042	1	1.73	0.010	0.09	0.2	0.03	7.0	0.2	<0.05	5	<0.5	<0.2
965571	Soil	23	0.53	262	0.039	<1	1.60	0.007	0.08	0.1	0.02	5.3	0.4	<0.05	5	<0.5	<0.2
965572	Soil	19	0.40	137	0.047	<1	1.12	0.009	0.05	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
965573	Soil	19	0.43	111	0.060	<1	1.14	0.025	0.06	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
965574	Soil	20	0.41	249	0.046	1	1.17	0.012	0.08	0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
965575	Soil	19	0.43	143	0.048	1	1.16	0.014	0.07	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
965576	Soil	24	0.55	163	0.037	<1	1.44	0.014	0.08	0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
965577	Soil	20	0.41	107	0.043	<1	1.20	0.015	0.05	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
965578	Soil	20	0.49	85	0.042	<1	1.22	0.009	0.05	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
965579	Soil	19	0.44	131	0.039	<1	1.25	0.007	0.04	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
965580	Soil	24	0.47	226	0.015	<1	1.83	0.008	0.07	<0.1	0.06	6.1	<0.1	<0.05	5	<0.5	<0.2
965581	Soil	19	0.47	99	0.047	<1	1.18	0.011	0.05	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
965582	Soil	18	0.42	125	0.028	<1	1.19	0.007	0.05	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
965583	Soil	16	0.36	183	0.025	<1	1.08	0.007	0.04	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
965584	Soil	20	0.47	210	0.036	<1	1.24	0.012	0.06	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
965585	Soil	21	0.41	242	0.028	<1	1.34	0.008	0.07	0.1	0.05	4.6	<0.1	<0.05	4	<0.5	<0.2
965586	Soil	19	0.44	110	0.052	<1	1.09	0.013	0.06	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
965587	Soil	19	0.43	232	0.037	<1	1.29	0.008	0.05	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
965588	Soil	22	0.49	271	0.025	1	1.99	0.008	0.06	0.1	0.03	4.3	<0.1	<0.05	6	<0.5	<0.2
965589	Soil	20	0.50	152	0.027	1	1.46	0.007	0.04	0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
965590	Soil	23	0.59	220	0.039	1	1.60	0.008	0.07	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
965591	Soil	15	0.40	312	0.017	2	1.40	0.007	0.08	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
965592	Soil	23	0.56	208	0.036	<1	1.56	0.012	0.05	<0.1	0.04	6.2	0.1	<0.05	5	<0.5	<0.2
965593	Soil	14	0.36	922	0.007	1	1.32	0.006	0.05	0.1	0.12	10.5	0.2	<0.05	5	<0.5	<0.2
965594	Soil	19	0.49	189	0.037	2	1.39	0.007	0.07	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
965595	Soil	0.9	15.9	10.7	316	0.3	20.2	9.4	782	2.97	10.3	0.5	0.6	20	2.4	0.5	0.1	56	0.35	0.054	6
965596	Soil	1.5	38.0	19.2	315	0.4	28.7	14.2	1397	3.85	50.4	0.7	1.5	37	1.1	1.0	<0.1	64	0.55	0.066	9
965597	Soil	0.7	16.1	11.2	119	0.3	19.3	11.4	830	3.13	37.9	5.5	0.6	15	0.5	0.5	<0.1	63	0.40	0.032	5
965598	Soil	2.2	37.5	35.7	1436	5.3	14.0	24.0	7575	4.62	184.1	0.6	0.2	21	14.9	1.2	0.1	88	0.93	0.112	8
965599	Soil	0.9	21.2	12.1	98	0.2	25.3	14.5	868	3.37	18.7	1.6	1.3	19	0.1	0.6	<0.1	61	0.41	0.038	8
965600	Soil	1.2	75.9	23.0	250	1.7	21.5	16.1	1788	4.26	55.2	<0.5	1.0	22	1.0	0.7	<0.1	74	0.69	0.058	9
965601	Soil	1.5	36.5	11.8	347	0.5	31.3	13.6	1275	3.35	21.8	<0.5	1.0	47	1.8	0.5	0.1	56	0.84	0.063	9
965602	Soil	0.5	21.5	7.6	149	0.1	18.4	9.9	695	2.46	7.8	<0.5	0.3	42	1.2	0.5	<0.1	46	0.58	0.045	5
965603	Soil	1.1	52.9	10.6	271	0.6	32.0	10.9	921	3.33	16.9	<0.5	0.8	45	1.3	0.6	0.2	56	1.22	0.057	9
965604	Soil	0.8	46.3	6.2	110	0.4	21.4	7.5	781	2.02	17.5	<0.5	0.3	59	1.0	0.6	<0.1	34	2.10	0.088	7
965605	Soil	1.0	62.7	19.9	421	1.0	32.2	11.7	1367	3.81	14.0	<0.5	1.0	33	3.2	0.6	0.2	67	0.85	0.062	13
965606	Soil	1.0	39.2	19.3	162	0.3	21.5	10.9	1030	3.56	17.7	<0.5	1.2	29	0.7	0.7	<0.1	67	0.49	0.067	9
965607	Soil	0.7	37.0	12.8	117	0.2	25.7	13.0	936	3.38	16.5	1.7	1.4	40	0.5	0.8	<0.1	60	0.85	0.064	8
965608	Soil	0.5	16.8	6.7	121	0.2	20.5	9.4	570	2.87	8.5	<0.5	0.5	23	0.6	0.4	<0.1	54	0.28	0.043	6
965609	Soil	0.6	20.0	8.9	79	<0.1	21.6	10.6	564	3.12	10.7	0.8	0.9	26	0.1	0.5	<0.1	58	0.26	0.026	6
965610	Soil	0.5	16.3	6.2	97	0.1	20.3	7.5	554	2.52	6.5	<0.5	0.4	33	0.3	0.3	<0.1	47	0.32	0.054	6





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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000059.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
965595	Soil	22	0.52	173	0.040	2	1.38	0.008	0.10	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
965596	Soil	27	0.58	380	0.026	2	1.57	0.021	0.07	<0.1	0.07	8.8	0.1	<0.05	5	<0.5	<0.2
965597	Soil	21	0.50	223	0.029	1	1.49	0.010	0.05	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
965598	Soil	15	0.26	896	0.013	4	1.48	0.006	0.07	0.1	0.15	7.5	0.4	0.07	7	<0.5	<0.2
965599	Soil	27	0.59	231	0.033	<1	1.71	0.010	0.07	<0.1	0.03	6.4	<0.1	<0.05	5	<0.5	<0.2
965600	Soil	21	0.54	300	0.025	3	1.63	0.012	0.13	0.1	0.06	14.3	0.1	<0.05	5	<0.5	<0.2
965601	Soil	29	0.67	230	0.020	5	1.82	0.020	0.10	<0.1	0.05	7.5	0.1	<0.05	5	<0.5	<0.2
965602	Soil	19	0.45	154	0.025	2	1.11	0.008	0.08	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
965603	Soil	28	0.58	330	0.016	4	1.92	0.014	0.11	0.1	0.06	7.1	0.1	<0.05	6	<0.5	<0.2
965604	Soil	18	0.46	304	0.009	6	1.23	0.013	0.06	<0.1	0.08	3.4	<0.1	0.10	4	0.8	<0.2
965605	Soil	27	0.54	416	0.018	2	2.06	0.014	0.08	0.2	0.04	10.1	0.2	<0.05	6	<0.5	<0.2
965606	Soil	23	0.56	304	0.033	2	1.40	0.014	0.07	0.1	0.07	8.8	0.1	<0.05	4	<0.5	<0.2
965607	Soil	24	0.55	276	0.029	2	1.42	0.020	0.07	0.1	0.05	7.6	0.1	<0.05	4	<0.5	<0.2
965608	Soil	21	0.52	172	0.031	1	1.45	0.010	0.07	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
965609	Soil	23	0.53	136	0.045	1	1.36	0.016	0.06	<0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
965610	Soil	20	0.52	131	0.020	<1	1.36	0.009	0.08	0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2



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# QUALITY CONTROL REPORT

SMI12000059.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
964117	Soil	0.6	19.2	8.0	99	0.1	17.6	9.2	866	2.49	5.6	<0.5	0.4	31	0.4	0.4	0.1	48	0.32	0.080	7
REP 964117	QC	0.6	18.7	8.2	98	0.2	17.3	9.3	842	2.49	6.1	<0.5	0.4	31	0.2	0.4	0.1	48	0.32	0.083	7
964122	Soil	0.7	22.2	5.9	85	0.2	21.4	8.1	755	2.42	5.5	<0.5	0.7	32	<0.1	0.3	0.1	46	0.31	0.058	9
REP 964122	QC	0.7	23.8	5.8	90	0.2	22.8	8.4	781	2.35	5.4	4.3	0.8	32	<0.1	0.2	0.1	48	0.31	0.057	9
964153	Soil	0.6	40.8	6.8	126	0.2	21.1	11.4	1355	3.12	13.6	0.8	0.2	33	0.9	0.4	0.1	65	0.90	0.104	7
REP 964153	QC	0.6	40.9	7.0	128	0.2	21.4	11.8	1423	3.18	14.3	0.7	0.2	34	0.8	0.4	<0.1	66	0.92	0.108	8
964158	Soil	0.8	19.3	8.2	129	0.2	19.8	10.1	1097	3.43	13.3	<0.5	0.6	25	0.2	0.4	<0.1	73	0.45	0.061	6
REP 964158	QC	0.6	19.0	8.2	122	0.2	19.3	10.2	1084	3.39	12.5	0.9	0.6	25	0.4	0.4	<0.1	72	0.47	0.062	6
972762	Soil	0.7	26.7	10.8	114	<0.1	20.8	9.6	625	3.01	10.5	1.7	0.9	22	0.1	0.5	0.1	57	0.26	0.034	7
REP 972762	QC	0.7	25.3	10.9	112	<0.1	21.6	9.4	583	2.80	9.5	0.9	0.9	22	0.1	0.5	<0.1	55	0.24	0.033	7
972767	Soil	1.1	35.0	17.3	134	0.2	25.5	13.5	1380	3.50	14.5	2.1	0.9	29	0.6	0.5	<0.1	65	0.48	0.066	9
REP 972767	QC	1.0	36.2	16.7	134	0.2	25.6	13.3	1394	3.62	14.7	1.8	0.9	28	0.5	0.5	0.2	67	0.49	0.071	9
972798	Soil	0.5	14.2	9.3	89	<0.1	15.3	7.9	619	2.57	7.5	0.7	0.5	19	0.3	0.4	<0.1	53	0.28	0.037	6
REP 972798	QC	0.6	14.1	9.2	89	<0.1	16.0	7.7	621	2.60	7.4	0.7	0.5	19	0.3	0.4	<0.1	55	0.27	0.037	6
972803	Soil	0.9	42.5	15.5	127	0.1	31.7	14.4	1178	3.73	13.1	1.5	1.1	34	0.4	0.6	<0.1	72	0.56	0.060	9
REP 972803	QC	0.8	43.2	15.9	124	0.1	29.8	14.3	1161	3.75	13.6	0.8	1.2	34	0.4	0.6	<0.1	72	0.57	0.061	9
972823	Soil	1.4	47.8	22.4	263	0.6	18.4	10.3	1035	3.57	13.7	0.5	0.3	16	1.6	0.5	<0.1	61	0.33	0.079	7
REP 972823	QC	1.3	46.1	21.7	260	0.5	17.6	10.1	994	3.57	13.1	0.9	0.4	15	1.6	0.5	<0.1	60	0.31	0.072	7
972832	Soil	0.8	17.8	7.1	88	0.3	18.1	7.2	438	2.83	7.6	1.7	0.6	16	0.2	0.6	<0.1	59	0.17	0.037	6
REP 972832	QC	0.6	17.4	7.1	87	0.2	17.3	7.2	430	2.78	7.7	1.1	0.5	16	0.3	0.5	<0.1	58	0.17	0.035	6
972846	Soil	1.1	34.4	9.5	151	0.6	15.2	9.1	533	3.94	15.2	<0.5	0.1	11	0.5	0.6	<0.1	88	0.10	0.049	10
REP 972846	QC	1.0	34.1	9.3	150	0.6	15.5	8.5	524	3.89	15.2	<0.5	0.1	11	0.5	0.5	0.1	85	0.10	0.050	10
972848	Soil	0.9	17.1	9.2	129	0.3	13.0	7.2	546	3.92	14.6	<0.5	0.8	7	0.4	0.5	<0.1	73	0.08	0.119	4
REP 972848	QC	1.0	17.1	9.3	129	0.3	12.4	7.1	542	3.86	14.3	<0.5	0.8	7	0.3	0.5	<0.1	73	0.08	0.113	4
965564	Soil	0.6	17.6	8.7	65	<0.1	21.8	9.5	606	2.95	11.5	1.1	0.9	29	0.1	0.5	0.1	59	0.30	0.056	5
REP 965564	QC	0.6	17.1	8.8	66	<0.1	22.2	9.8	598	2.98	11.3	0.6	0.9	29	0.1	0.6	<0.1	57	0.28	0.057	5
965566	Soil	0.7	16.6	10.2	141	0.1	21.6	9.5	823	3.10	9.5	0.9	0.6	29	0.5	0.5	0.1	59	0.32	0.063	6
REP 965566	QC	0.7	15.6	9.7	132	<0.1	20.3	9.1	745	3.04	8.9	0.6	0.6	26	0.4	0.4	<0.1	58	0.29	0.059	6



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Project: ZNT

Report Date: August 07, 2012

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QUALITY CONTROL REPORT

SMI12000059.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
964117	Soil	19	0.35	194	0.029	2	1.33	0.010	0.07	0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
REP 964117	QC	19	0.36	191	0.030	2	1.35	0.010	0.07	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
964122	Soil	24	0.49	175	0.019	1	1.72	0.012	0.09	0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
REP 964122	QC	24	0.50	181	0.028	2	1.79	0.013	0.10	0.1	0.03	5.2	<0.1	<0.05	6	<0.5	<0.2
964153	Soil	24	0.42	262	0.026	2	1.66	0.008	0.09	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 964153	QC	24	0.42	267	0.027	2	1.71	0.008	0.11	<0.1	0.03	4.6	<0.1	0.06	5	<0.5	<0.2
964158	Soil	23	0.42	149	0.060	2	1.29	0.009	0.07	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 964158	QC	23	0.42	153	0.061	2	1.32	0.009	0.07	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
972762	Soil	26	0.56	133	0.038	1	1.55	0.008	0.07	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 972762	QC	24	0.57	130	0.037	1	1.52	0.009	0.06	<0.1	0.04	4.4	<0.1	<0.05	5	<0.5	<0.2
972767	Soil	27	0.59	284	0.042	2	1.56	0.011	0.08	0.1	0.04	7.0	0.1	<0.05	5	<0.5	<0.2
REP 972767	QC	28	0.60	271	0.042	2	1.60	0.012	0.08	<0.1	0.04	6.5	0.1	<0.05	5	<0.5	<0.2
972798	Soil	19	0.37	190	0.041	1	1.14	0.007	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 972798	QC	19	0.38	195	0.041	<1	1.16	0.007	0.05	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
972803	Soil	29	0.67	314	0.039	1	1.85	0.019	0.09	0.1	0.04	7.9	<0.1	<0.05	6	<0.5	<0.2
REP 972803	QC	29	0.68	317	0.040	2	1.92	0.016	0.10	<0.1	0.05	8.0	0.1	<0.05	6	<0.5	<0.2
972823	Soil	22	0.45	298	0.017	2	1.83	0.011	0.09	0.2	0.07	6.0	0.4	0.06	6	<0.5	<0.2
REP 972823	QC	21	0.43	289	0.018	2	1.75	0.006	0.08	0.1	0.07	5.8	0.4	<0.05	6	<0.5	<0.2
972832	Soil	22	0.51	133	0.032	<1	1.46	0.005	0.05	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
REP 972832	QC	22	0.50	133	0.033	2	1.43	0.006	0.05	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
972846	Soil	22	0.48	434	0.010	2	1.99	0.007	0.06	0.1	0.05	4.8	<0.1	<0.05	7	<0.5	<0.2
REP 972846	QC	20	0.47	424	0.010	1	1.97	0.006	0.06	0.1	0.06	4.4	0.1	<0.05	7	<0.5	<0.2
972848	Soil	19	0.43	140	0.022	1	1.65	0.006	0.04	0.1	0.06	4.4	<0.1	<0.05	6	<0.5	<0.2
REP 972848	QC	19	0.42	141	0.022	<1	1.62	0.005	0.04	0.1	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
965564	Soil	22	0.49	121	0.051	<1	1.34	0.014	0.07	0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
REP 965564	QC	21	0.50	119	0.054	<1	1.34	0.010	0.07	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
965566	Soil	23	0.52	165	0.037	<1	1.32	0.009	0.09	0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 965566	QC	21	0.49	153	0.040	<1	1.23	0.008	0.08	0.2	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2

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



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Project: ZNT  
 Report Date: August 07, 2012

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
965589	Soil	0.8	13.5	11.0	275	0.3	20.1	8.9	972	2.88	13.2	<0.5	0.4	22	2.1	0.5	<0.1	58	0.40	0.041	5
REP 965589	QC	0.9	13.9	11.1	280	0.3	19.2	9.0	1045	2.89	13.9	<0.5	0.4	23	2.8	0.4	<0.1	58	0.40	0.042	5
965597	Soil	0.7	16.1	11.2	119	0.3	19.3	11.4	830	3.13	37.9	5.5	0.6	15	0.5	0.5	<0.1	63	0.40	0.032	5
REP 965597	QC	0.7	16.7	11.3	122	0.3	18.7	11.2	840	3.11	38.0	66.1	0.6	15	0.3	0.5	<0.1	61	0.40	0.033	6
Reference Materials																					
STD DS9	Standard	13.8	113.3	124.3	311	1.9	41.3	7.9	594	2.38	26.9	124.3	6.8	73	2.4	5.9	6.5	46	0.76	0.087	14
STD DS9	Standard	12.8	111.2	127.2	302	1.8	40.1	7.8	577	2.35	25.8	127.0	6.4	64	2.4	5.9	5.9	43	0.68	0.081	13
STD DS9	Standard	12.2	105.0	117.8	292	1.7	39.2	7.1	548	2.22	23.7	110.2	5.8	65	2.3	5.2	5.7	39	0.68	0.075	13
STD DS9	Standard	14.4	109.0	114.5	311	1.8	40.8	7.8	589	2.31	24.4	121.2	5.4	63	2.3	4.7	5.0	46	0.75	0.079	14
STD DS9	Standard	13.2	110.6	110.8	316	1.9	40.3	7.7	601	2.32	25.3	529.8	4.9	61	2.6	4.6	4.9	46	0.71	0.077	13
STD DS9	Standard	13.9	115.7	115.5	310	1.9	41.9	8.0	599	2.37	25.0	110.0	5.9	65	2.1	5.0	4.8	46	0.75	0.080	14
STD DS9	Standard	13.7	116.2	128.1	317	1.9	41.9	7.9	588	2.36	26.0	162.0	6.0	68	2.3	5.1	6.0	44	0.75	0.083	13
STD DS9	Standard	12.2	96.2	115.9	281	1.9	35.6	6.8	512	2.07	23.3	117.7	5.9	64	2.1	4.9	6.0	37	0.64	0.074	12
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
965589	Soil	20	0.50	152	0.027	1	1.46	0.007	0.04	0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 965589	QC	20	0.50	160	0.029	2	1.55	0.008	0.05	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
965597	Soil	21	0.50	223	0.029	1	1.49	0.010	0.05	<0.1	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 965597	QC	21	0.49	217	0.028	1	1.48	0.007	0.05	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	126	0.65	318	0.118	3	1.00	0.100	0.38	3.2	0.19	3.0	5.5	0.18	5	5.8	5.5
STD DS9	Standard	122	0.62	296	0.116	2	0.92	0.092	0.36	3.2	0.21	2.6	5.5	0.14	5	5.7	4.8
STD DS9	Standard	114	0.58	285	0.109	1	0.90	0.092	0.36	3.0	0.20	3.0	5.2	0.14	4	5.4	5.2
STD DS9	Standard	122	0.64	308	0.111	1	1.00	0.094	0.38	2.9	0.23	2.7	5.6	0.19	5	4.9	4.9
STD DS9	Standard	121	0.63	292	0.106	4	0.95	0.074	0.34	2.8	0.21	2.3	5.4	0.18	5	5.6	4.8
STD DS9	Standard	131	0.63	299	0.122	3	0.93	0.077	0.36	3.0	0.20	2.4	5.5	0.18	5	5.4	4.7
STD DS9	Standard	128	0.63	301	0.109	2	0.94	0.089	0.37	2.9	0.22	2.6	5.4	0.16	5	5.2	5.1
STD DS9	Standard	108	0.56	277	0.100	3	0.86	0.083	0.34	2.8	0.17	2.3	5.0	0.13	4	4.7	4.4
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 04, 2012

Report Date: August 08, 2012

Page: 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI12000060.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: ZNT  
P.O. Number: QZM-ZNT-001  
Number of Samples: 7

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	7	Dry at 60C			SMI
SS80	7	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	7	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

RTRN-PLP Return  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Client: **Quartz Mountain Resources Ltd.**  
 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 Canada

Project: ZNT  
 Report Date: August 08, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000060.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
964171	Silt	1.0	31.1	15.2	167	0.2	23.2	12.1	1089	3.52	12.5	0.6	0.8	48	1.2	0.5	<0.1	69	0.89	0.062	7
964178	Silt	0.6	21.1	8.3	77	<0.1	27.0	12.7	892	3.57	7.8	8.1	1.0	37	0.2	0.4	<0.1	75	0.47	0.071	7
972868	Silt	0.9	36.3	7.9	74	<0.1	33.1	11.5	742	3.75	10.3	1.5	1.4	36	<0.1	0.6	0.1	68	0.38	0.053	8
965611	Silt	0.9	29.8	16.9	190	0.3	22.2	13.6	1273	3.85	19.4	0.7	0.9	28	0.8	0.6	<0.1	87	0.58	0.066	8
965612	Silt	0.8	35.0	11.1	126	0.2	33.0	14.7	1471	3.73	13.6	1.1	1.1	43	0.7	0.5	0.1	74	0.76	0.070	9
965613	Silt	0.8	25.7	16.0	148	0.1	24.9	13.2	1151	4.11	13.7	0.8	1.0	27	0.8	0.6	<0.1	84	0.42	0.064	7
965614	Silt	0.5	20.9	8.7	139	0.2	27.6	15.1	846	4.77	12.8	1.1	1.0	43	0.3	0.3	<0.1	64	0.68	0.102	7





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Project: ZNT  
 Report Date: August 08, 2012

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000060.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
964171	Silt	23	0.59	628	0.035	3	1.30	0.014	0.06	0.2	0.06	6.4	0.1	<0.05	4	<0.5	<0.2
964178	Silt	28	0.64	168	0.047	2	1.51	0.020	0.06	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
972868	Silt	34	0.75	154	0.035	2	2.07	0.012	0.11	<0.1	0.06	8.1	<0.1	<0.05	6	<0.5	<0.2
965611	Silt	23	0.64	290	0.038	2	1.39	0.017	0.06	<0.1	0.04	7.0	0.1	<0.05	5	<0.5	<0.2
965612	Silt	31	0.66	306	0.037	2	1.74	0.018	0.08	0.1	0.05	7.2	<0.1	<0.05	5	<0.5	<0.2
965613	Silt	24	0.62	454	0.050	2	1.25	0.014	0.05	0.2	0.03	5.7	0.1	<0.05	4	<0.5	<0.2
965614	Silt	28	0.70	248	0.023	2	1.88	0.019	0.07	<0.1	0.06	6.7	0.1	<0.05	6	<0.5	<0.2



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Project: ZNT

Report Date: August 08, 2012

Page: 1 of 1

Part: 1 of 2

## QUALITY CONTROL REPORT

SMI12000060.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
965612 Silt	0.8	35.0	11.1	126	0.2	33.0	14.7	1471	3.73	13.6	1.1	1.1	43	0.7	0.5	0.1	74	0.76	0.070	9	
REP 965612 QC	0.8	35.8	10.9	126	0.2	33.2	14.7	1430	3.87	13.2	0.6	1.1	44	0.7	0.6	0.1	74	0.73	0.069	9	
Reference Materials																					
STD DS9 Standard	14.1	110.2	128.5	300	1.9	43.4	7.5	599	2.42	23.4	114.3	6.1	73	2.1	4.9	6.1	42	0.77	0.080	13	
STD DS9 Expected	12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3	
BLK Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1	



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Project: ZNT

Report Date: August 08, 2012

Page: 1 of 1

Part: 2 of 2

## QUALITY CONTROL REPORT

SMI12000060.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
965612	Silt	31	0.66	306	0.037	2	1.74	0.018	0.08	0.1	0.05	7.2	<0.1	<0.05	5	<0.5	<0.2
REP 965612	QC	30	0.67	308	0.037	2	1.83	0.018	0.08	0.1	0.06	7.2	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	137	0.66	302	0.123	3	0.99	0.087	0.37	2.9	0.21	2.5	5.7	0.18	5	6.1	5.2
STD DS9	Expected	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: July 04, 2012

Report Date: July 29, 2012

Page: 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI12000065.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: ZNT  
P.O. Number: QZM-ZNT-002  
Number of Samples: 2

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	2	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1DX2	2	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Project: ZNT  
 Report Date: July 29, 2012

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000065.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
G1-SMI	Prep Blank	<0.01	<0.1	8.3	3.0	44	<0.1	3.7	4.4	566	1.95	<0.5	2.5	5.4	60	<0.1	<0.1	<0.1	38	0.57	0.078
964452	Rock	1.98	0.4	61.7	4.0	145	0.3	8.3	19.7	2032	5.52	4.7	9.4	0.5	6	<0.1	0.4	<0.1	285	0.60	0.049
964453	Rock	1.09	<0.1	24.6	1.4	167	<0.1	3.7	3.9	846	2.87	2.1	2.0	0.6	4	0.2	<0.1	<0.1	4	0.22	0.079



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Project: ZNT  
 Report Date: July 29, 2012

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI12000065.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	13	12	0.54	192	0.119	1	1.02	0.122	0.54	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2
964452	Rock	5	19	1.84	129	0.054	2	1.69	0.052	0.14	<0.1	0.02	14.6	<0.1	<0.05	11	<0.5	<0.2
964453	Rock	10	10	0.35	161	0.003	2	1.08	0.079	0.16	<0.1	<0.01	6.1	<0.1	<0.05	4	<0.5	<0.2



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Project: ZNT

Report Date: July 29, 2012

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

SMI12000065.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
964453	Rock	1.09	<0.1	24.6	1.4	167	<0.1	3.7	3.9	846	2.87	2.1	2.0	0.6	4	0.2	<0.1	<0.1	4	0.22	0.079
REP 964453	QC		<0.1	24.3	1.4	164	<0.1	3.4	3.8	844	2.88	2.5	2.3	0.5	4	0.1	<0.1	<0.1	4	0.21	0.080
Reference Materials																					
STD DS9	Standard		14.1	112.7	123.7	316	1.8	41.8	7.4	596	2.35	25.1	132.4	6.7	72	2.3	5.2	6.3	41	0.77	0.088
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<0.1	8.3	3.0	44	<0.1	3.7	4.4	566	1.95	<0.5	2.5	5.4	60	<0.1	<0.1	<0.1	38	0.57	0.078





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Project: ZNT

Report Date: July 29, 2012

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

SMI12000065.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
964453	Rock	10	10	0.35	161	0.003	2	1.08	0.079	0.16	<0.1	<0.01	6.1	<0.1	<0.05	4	<0.5	<0.2	
REP 964453	QC	10	9	0.35	158	0.003	3	1.06	0.077	0.15	<0.1	<0.01	5.9	<0.1	<0.05	4	<0.5	<0.2	
Reference Materials																			
STD DS9	Standard	14	127	0.63	308	0.117	3	1.02	0.098	0.41	3.0	0.23	2.6	5.2	0.17	5	5.4	5.0	
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																			
G1-SMI	Prep Blank	13	12	0.54	192	0.119	1	1.02	0.122	0.54	<0.1	<0.01	2.6	0.3	<0.05	5	<0.5	<0.2	



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 15, 2012

Report Date: October 24, 2012

Page: 1 of 9

# CERTIFICATE OF ANALYSIS

# SMI12000467.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-03\_201210  
P.O. Number: QZM-ZNT-03  
Number of Samples: 212

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	210	Dry at 60C			SMI
SS80	210	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	209	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

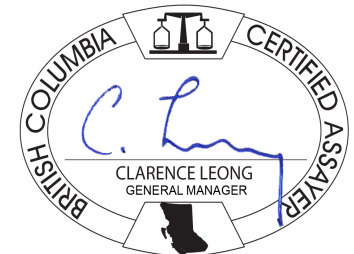
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
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Canada

CC:



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Project: ZNT  
 Report Date: October 24, 2012

Page: 2 of 9

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000467.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991005	Soil	2.0	6.1	11.2	255	0.2	9.2	6.1	306	2.42	9.5	1.2	0.5	10	0.8	0.3	0.2	54	0.29	0.013	3
991006	Soil	0.9	13.6	11.3	264	0.2	15.8	8.9	583	3.19	11.5	<0.5	0.6	13	1.5	0.5	0.1	61	0.19	0.065	4
991007	Soil	1.4	8.8	14.7	445	0.3	11.0	9.4	1585	3.25	11.0	1.0	0.5	10	3.7	0.5	0.2	64	0.25	0.035	4
991008	Soil	1.9	13.1	18.1	551	0.8	14.4	10.0	1980	3.31	26.5	0.8	0.4	13	3.7	0.5	0.2	65	0.47	0.049	5
991009	Soil	1.0	13.7	12.4	245	0.1	16.7	9.4	990	3.20	17.7	2.1	0.7	15	1.6	0.6	0.1	60	0.26	0.028	5
991010	Soil	0.7	9.4	11.2	165	<0.1	14.5	7.2	369	3.02	13.8	1.2	0.7	13	0.4	0.5	0.1	61	0.16	0.043	4
991011	Soil	0.5	6.3	6.9	134	0.2	9.3	5.4	442	2.17	3.5	0.6	0.5	14	0.4	0.2	0.1	46	0.20	0.042	5
991012	Soil	0.6	9.6	9.3	185	<0.1	13.4	7.5	535	2.71	12.1	5.5	0.4	22	0.5	0.3	<0.1	52	0.37	0.104	4
991013	Soil	0.8	9.9	8.2	91	0.2	7.6	5.7	920	1.98	4.7	<0.5	0.3	18	0.9	0.3	0.1	43	0.29	0.033	5
991014	Soil	1.0	7.5	7.9	112	0.2	6.8	5.1	554	2.22	5.7	<0.5	0.3	14	1.1	0.3	0.1	53	0.15	0.033	5
991015	Soil	1.2	11.5	10.6	164	0.2	11.5	6.6	423	3.28	20.3	0.6	0.4	20	0.5	0.6	0.1	70	0.34	0.036	4
991016	Soil	0.6	11.2	9.3	115	<0.1	14.6	8.1	591	2.94	16.8	0.9	0.4	20	0.8	0.5	<0.1	56	0.29	0.039	4
991017	Soil	0.9	10.3	12.6	143	0.2	10.7	9.3	1899	3.07	12.5	0.5	0.6	17	1.0	0.4	0.2	64	0.33	0.029	5
991018	Soil	0.8	13.1	10.1	268	0.1	13.2	9.5	3257	2.78	15.3	1.0	0.2	30	1.2	0.4	0.1	50	0.61	0.065	4
991019	Soil	0.7	11.1	29.1	153	<0.1	13.6	8.4	1167	2.94	14.4	1.3	0.4	23	0.5	0.5	<0.1	55	0.30	0.034	5
991020	Soil	0.7	8.2	9.0	158	<0.1	10.1	6.4	1182	2.66	22.9	1.5	0.4	11	0.2	0.5	0.1	55	0.15	0.046	5
991021	Soil	0.7	31.1	12.7	103	<0.1	20.5	10.7	877	3.25	26.7	2.9	1.3	36	0.2	0.8	<0.1	59	0.43	0.056	9
991022	Soil	0.7	25.3	11.2	126	0.2	18.9	9.3	1024	2.95	33.0	2.6	0.7	31	0.6	0.5	<0.1	52	0.56	0.069	8
991023	Soil	1.1	22.5	10.5	88	<0.1	20.2	11.4	686	3.16	20.0	1.8	1.1	28	0.3	0.6	<0.1	62	0.36	0.032	5
991024	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.
991025	Soil	0.7	21.0	10.6	173	0.2	18.7	9.8	1203	2.95	18.0	0.6	0.6	24	0.8	0.4	0.1	55	0.31	0.045	7
991026	Soil	0.8	124.2	17.7	263	1.3	53.3	14.7	1239	4.37	27.3	3.3	1.8	63	1.5	0.7	0.1	66	1.09	0.107	26
991027	Soil	0.7	17.4	10.1	83	<0.1	14.8	9.0	692	2.83	19.2	2.4	0.4	28	0.4	0.5	<0.1	55	0.37	0.051	4
991028	Soil	0.5	26.9	10.8	205	0.2	23.7	12.0	1299	3.37	16.9	3.4	1.3	34	0.9	0.7	0.1	58	0.54	0.044	7
991029	Soil	0.6	8.1	22.5	222	<0.1	12.1	7.1	390	2.90	14.8	2.1	0.6	14	1.0	0.5	<0.1	59	0.22	0.050	4
991030	Soil	0.6	12.2	8.2	114	0.1	7.5	5.8	835	2.10	8.2	1.4	0.5	21	0.8	0.4	0.1	47	0.36	0.027	4
991031	Soil	0.9	100.8	11.7	173	0.5	57.1	15.0	1604	4.05	52.7	1.4	1.6	73	0.7	0.6	0.1	63	1.26	0.105	34
991032	Soil	0.6	13.8	9.8	171	<0.1	18.3	9.4	1512	2.59	21.8	1.6	0.6	19	0.6	0.3	0.2	49	0.31	0.041	5
991033	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991035	Soil	0.6	12.5	12.0	121	<0.1	17.2	9.7	978	3.02	23.1	3.3	0.5	14	0.2	0.5	<0.1	59	0.15	0.076	5

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Project: ZNT  
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991005	Soil	13	0.23	132	0.019	1	1.01	0.005	0.02	0.1	0.03	2.5	0.1	<0.05	4	<0.5	<0.2
991006	Soil	20	0.35	149	0.026	1	1.34	0.007	0.05	<0.1	0.02	3.6	<0.1	<0.05	5	0.6	<0.2
991007	Soil	18	0.27	208	0.028	2	1.12	0.005	0.08	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991008	Soil	20	0.29	229	0.021	2	1.74	0.005	0.09	0.1	0.04	3.7	0.1	<0.05	6	<0.5	<0.2
991009	Soil	20	0.43	166	0.037	2	1.31	0.006	0.07	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
991010	Soil	19	0.32	204	0.022	1	1.48	0.007	0.05	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991011	Soil	14	0.22	122	0.032	1	0.89	0.007	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
991012	Soil	17	0.32	356	0.022	2	1.23	0.005	0.06	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
991013	Soil	12	0.15	236	0.032	1	0.66	0.005	0.05	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
991014	Soil	13	0.16	154	0.035	<1	0.68	0.006	0.05	0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
991015	Soil	16	0.28	271	0.024	1	1.03	0.006	0.06	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991016	Soil	18	0.34	252	0.028	1	1.18	0.006	0.05	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
991017	Soil	17	0.23	379	0.036	2	1.05	0.006	0.08	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991018	Soil	16	0.28	543	0.030	2	1.05	0.005	0.13	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
991019	Soil	17	0.29	382	0.031	1	1.13	0.006	0.06	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
991020	Soil	15	0.21	213	0.022	1	1.17	0.005	0.06	0.1	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
991021	Soil	21	0.50	279	0.042	2	1.32	0.011	0.08	<0.1	0.06	7.8	<0.1	<0.05	4	<0.5	<0.2
991022	Soil	21	0.47	263	0.034	4	1.26	0.013	0.09	<0.1	0.06	6.1	<0.1	<0.05	4	<0.5	<0.2
991023	Soil	24	0.52	202	0.033	2	1.45	0.008	0.06	0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2
991024	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.
991025	Soil	21	0.34	213	0.036	2	1.34	0.007	0.08	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
991026	Soil	47	0.95	631	0.014	3	3.76	0.013	0.23	0.2	0.16	19.5	0.2	<0.05	9	<0.5	0.3
991027	Soil	19	0.32	147	0.038	2	0.99	0.007	0.08	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
991028	Soil	26	0.57	239	0.038	3	1.73	0.017	0.10	<0.1	0.04	7.7	<0.1	<0.05	5	<0.5	<0.2
991029	Soil	18	0.31	152	0.027	1	1.20	0.006	0.06	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
991030	Soil	13	0.17	165	0.047	2	0.62	0.006	0.06	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
991031	Soil	45	0.88	604	0.013	3	4.14	0.012	0.20	0.2	0.10	18.2	0.2	<0.05	10	<0.5	<0.2
991032	Soil	18	0.25	220	0.040	2	1.22	0.006	0.10	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991033	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991035	Soil	21	0.32	157	0.024	2	1.66	0.006	0.06	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: October 24, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991036	Soil	1.2	11.3	10.2	176	<0.1	15.5	11.3	2073	2.74	54.4	1.5	0.4	28	0.4	0.4	0.1	52	0.61	0.065	5
991037	Soil	0.6	9.7	8.0	122	<0.1	16.7	8.4	913	2.79	11.7	1.9	0.7	14	0.1	0.4	0.1	56	0.22	0.057	5
991038	Soil	0.6	18.3	9.6	105	<0.1	17.7	10.1	724	2.91	15.5	1.6	0.7	21	0.2	0.5	<0.1	54	0.28	0.072	6
991039	Soil	0.6	32.0	12.3	95	<0.1	21.5	11.5	847	3.29	24.5	5.1	1.4	36	0.1	0.7	<0.1	62	0.42	0.048	8
991040	Soil	0.9	38.7	10.2	173	0.3	29.0	10.3	1784	3.26	16.3	1.7	0.8	35	0.2	0.4	0.1	54	0.43	0.082	12
991041	Soil	1.5	36.0	12.2	166	<0.1	22.7	9.8	910	3.91	30.9	1.8	0.6	18	0.3	0.7	<0.1	74	0.25	0.039	4
991042	Soil	0.6	7.9	7.7	98	0.1	8.2	5.8	941	2.37	8.8	1.3	0.3	11	0.3	0.3	0.2	51	0.15	0.040	4
991043	Soil	0.7	9.2	9.6	149	<0.1	14.8	8.8	722	2.86	19.2	<0.5	0.5	15	0.2	0.3	0.1	63	0.24	0.056	5
991044	Soil	0.5	6.0	8.6	200	<0.1	6.9	5.3	1101	2.37	10.1	<0.5	0.4	9	0.4	0.3	0.1	48	0.13	0.037	5
991045	Soil	0.8	7.1	8.6	135	0.1	8.0	5.7	475	2.74	9.2	0.7	0.4	9	0.5	0.3	0.1	55	0.13	0.046	4
991046	Soil	5.2	21.9	47.3	591	0.3	21.7	11.0	4498	3.33	26.5	<0.5	0.7	14	2.0	0.7	0.1	55	0.37	0.049	6
991047	Soil	1.1	12.1	9.9	175	0.1	7.4	8.6	1674	3.37	5.8	<0.5	0.2	16	1.5	0.4	0.1	80	0.32	0.054	4
991048	Soil	0.6	9.0	8.2	197	0.1	15.9	8.3	632	2.65	9.8	<0.5	0.5	17	0.5	0.3	<0.1	54	0.28	0.048	4
991049	Soil	0.6	5.8	9.5	192	0.1	7.5	6.2	1250	2.02	3.2	<0.5	0.3	14	1.1	0.2	0.1	43	0.27	0.076	5
991050	Soil	0.7	6.1	8.2	173	0.1	7.7	6.6	708	2.17	5.0	<0.5	0.4	12	1.0	0.2	0.1	48	0.20	0.041	4
991051	Soil	0.6	6.1	6.2	157	0.2	7.4	5.1	408	2.12	3.7	<0.5	0.5	10	0.7	0.2	0.1	47	0.14	0.023	5
991052	Soil	1.9	9.7	20.0	664	0.5	12.3	7.4	2133	2.83	12.4	<0.5	0.5	10	4.1	0.4	0.2	56	0.13	0.034	5
991053	Soil	1.1	4.7	7.9	310	0.5	6.0	5.3	631	2.15	5.0	<0.5	0.4	8	1.6	0.2	0.1	49	0.15	0.016	4
991054	Soil	1.8	34.4	14.2	252	1.0	18.8	9.9	620	3.22	53.2	1.0	1.0	22	1.3	0.6	0.1	64	1.10	0.025	25
991061	Soil	1.2	12.4	13.5	404	0.6	12.3	7.4	1157	2.74	14.9	<0.5	0.2	17	3.9	0.4	0.1	58	0.47	0.056	4
991064	Soil	0.9	11.8	9.0	235	0.3	13.3	6.8	538	2.76	9.6	1.7	0.1	14	2.3	0.4	<0.1	58	0.30	0.049	4
991065	Soil	0.9	27.9	11.7	215	0.3	24.5	11.9	898	3.16	13.4	0.6	1.0	24	1.1	0.7	<0.1	60	0.37	0.044	8
991066	Soil	1.3	14.3	10.7	249	0.4	10.0	9.3	1241	2.23	6.7	<0.5	0.2	25	4.8	0.3	0.1	52	0.98	0.049	4
991067	Soil	3.1	7.5	40.9	943	0.9	9.4	8.6	1871	2.99	34.8	<0.5	0.4	8	3.0	0.7	<0.1	58	0.30	0.051	4
991068	Soil	1.1	5.9	15.4	369	0.4	6.8	7.0	1526	2.58	9.6	<0.5	0.3	10	3.0	0.4	0.1	63	0.38	0.024	4
991069	Soil	0.8	7.2	10.5	283	0.2	9.0	7.7	1508	2.20	4.1	<0.5	0.2	12	2.9	0.3	0.2	48	0.28	0.066	4
991070	Soil	1.1	10.9	9.7	238	0.4	9.8	6.3	607	2.42	7.4	2.5	<0.1	23	1.9	0.3	0.2	56	0.43	0.051	4
991071	Soil	0.6	5.6	7.3	179	0.1	6.5	6.0	456	2.14	5.1	0.7	0.2	10	0.9	0.3	0.1	49	0.18	0.046	5
991072	Soil	0.9	17.6	11.0	202	0.3	17.4	10.8	893	3.01	17.8	<0.5	0.4	17	0.9	0.5	<0.1	61	0.27	0.058	5
991073	Soil	1.2	9.0	11.2	215	0.3	10.9	10.3	2527	2.52	8.8	<0.5	0.3	14	1.8	0.3	0.1	55	0.22	0.045	4

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991036	Soil	17	0.24	341	0.027	2	1.23	0.006	0.07	0.2	0.03	2.6	0.2	<0.05	5	<0.5	<0.2
991037	Soil	19	0.30	261	0.032	<1	1.54	0.006	0.06	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
991038	Soil	20	0.44	172	0.033	1	1.31	0.007	0.07	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
991039	Soil	24	0.49	213	0.039	1	1.38	0.012	0.08	<0.1	0.05	8.0	<0.1	<0.05	4	<0.5	<0.2
991040	Soil	30	0.54	577	0.007	<1	2.91	0.007	0.09	<0.1	0.04	7.8	0.1	<0.05	7	<0.5	<0.2
991041	Soil	20	0.35	280	0.019	1	1.67	0.008	0.05	0.1	0.03	4.8	<0.1	<0.05	7	<0.5	<0.2
991042	Soil	14	0.17	156	0.027	<1	0.91	0.006	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
991043	Soil	18	0.26	324	0.025	2	1.63	0.006	0.04	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
991044	Soil	12	0.17	374	0.023	1	0.93	0.005	0.04	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
991045	Soil	13	0.19	196	0.034	1	0.65	0.005	0.05	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991046	Soil	18	0.30	470	0.009	1	1.70	0.004	0.09	0.1	0.07	6.9	0.2	<0.05	4	<0.5	<0.2
991047	Soil	12	0.22	545	0.028	2	0.80	0.005	0.08	0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
991048	Soil	18	0.36	180	0.033	1	1.30	0.006	0.07	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
991049	Soil	14	0.19	180	0.036	2	0.72	0.007	0.08	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
991050	Soil	13	0.22	152	0.029	<1	0.88	0.005	0.06	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
991051	Soil	13	0.22	152	0.036	<1	0.79	0.006	0.03	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
991052	Soil	18	0.24	279	0.032	<1	1.36	0.005	0.07	0.1	0.03	2.7	0.2	<0.05	6	<0.5	<0.2
991053	Soil	14	0.17	152	0.035	1	0.82	0.006	0.04	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
991054	Soil	26	0.42	366	0.010	1	2.07	0.009	0.05	0.1	0.06	9.4	0.1	<0.05	6	0.6	<0.2
991061	Soil	15	0.33	271	0.023	1	1.00	0.005	0.09	0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
991064	Soil	18	0.33	144	0.021	1	1.14	0.005	0.11	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
991065	Soil	24	0.56	187	0.034	2	1.49	0.007	0.08	<0.1	0.04	5.9	<0.1	<0.05	4	<0.5	<0.2
991066	Soil	16	0.25	208	0.022	2	0.82	0.005	0.06	0.1	0.06	2.0	<0.1	<0.05	4	<0.5	<0.2
991067	Soil	13	0.24	135	0.013	<1	1.16	0.004	0.03	0.2	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
991068	Soil	14	0.18	175	0.022	<1	0.79	0.008	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
991069	Soil	15	0.22	192	0.035	<1	0.81	0.006	0.07	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
991070	Soil	15	0.24	192	0.021	1	0.98	0.007	0.06	0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
991071	Soil	12	0.19	139	0.033	<1	0.70	0.005	0.05	0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
991072	Soil	19	0.42	192	0.026	1	1.29	0.006	0.05	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991073	Soil	16	0.23	295	0.030	<1	0.92	0.006	0.09	0.1	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: October 24, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
991074	Soil	0.8	11.0	9.0	212	0.1	15.3	8.4	828	2.94	11.0	0.6	0.4	15	1.4	0.4	<0.1	59	0.22	0.045	4
991075	Soil	0.7	11.3	7.8	156	0.2	11.3	6.8	460	2.28	11.0	<0.5	0.3	15	1.5	0.4	<0.1	53	0.30	0.028	4
991076	Soil	0.9	44.4	8.5	237	1.0	25.7	9.5	1130	3.13	18.5	<0.5	0.8	29	1.4	0.6	0.1	59	0.85	0.062	13
991077	Soil	1.1	15.4	11.4	285	0.3	10.8	10.4	2458	2.43	10.3	<0.5	0.1	31	2.4	0.3	0.1	49	0.72	0.071	4
991078	Soil	0.6	8.8	9.1	211	0.1	10.9	7.9	1023	2.67	5.3	1.0	0.1	14	0.6	0.2	0.1	54	0.28	0.090	4
991079	Soil	0.9	11.5	7.9	231	0.1	13.0	8.1	688	2.70	7.5	<0.5	0.2	15	1.1	0.3	<0.1	53	0.33	0.069	4
991080	Soil	1.1	14.0	7.0	174	0.1	12.9	7.4	461	2.81	7.9	0.7	0.4	14	0.7	0.3	0.1	58	0.18	0.031	4
991081	Soil	0.8	12.8	8.6	136	<0.1	16.9	9.2	872	2.38	7.6	2.1	0.4	25	1.2	0.4	<0.1	47	0.41	0.051	4
991082	Soil	0.9	9.3	8.6	118	<0.1	5.0	10.7	3593	1.70	2.2	<0.5	0.2	11	1.6	0.3	0.1	42	0.17	0.024	4
991083	Soil	1.1	10.9	11.3	149	0.2	9.9	5.9	427	2.93	9.2	<0.5	0.2	19	0.6	0.3	0.1	60	0.38	0.084	4
991084	Soil	0.7	7.5	7.1	84	<0.1	8.9	4.4	266	2.23	7.2	<0.5	0.3	15	0.5	0.4	<0.1	55	0.23	0.036	4
991085	Soil	0.6	5.9	8.6	137	0.2	8.0	5.2	924	2.38	5.6	<0.5	0.2	18	0.9	0.2	0.1	59	0.26	0.075	4
991086	Soil	0.9	13.4	17.8	256	0.1	13.7	10.3	1081	3.72	15.3	0.9	0.4	18	0.9	0.4	0.2	79	0.24	0.106	5
991087	Soil	0.7	7.6	9.3	136	<0.1	4.9	6.0	802	1.64	2.1	1.2	<0.1	16	1.0	0.2	0.2	40	0.34	0.037	5
991088	Soil	0.8	11.1	13.8	94	<0.1	13.4	8.3	509	2.70	8.7	<0.5	0.5	14	0.4	0.4	0.1	58	0.34	0.024	4
991089	Soil	1.2	15.6	16.7	266	0.2	10.4	9.1	1287	2.84	7.9	<0.5	0.2	17	1.5	0.3	0.2	61	0.40	0.083	5
991090	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991091	Soil	0.8	16.7	21.3	226	0.2	15.0	7.5	372	4.10	15.9	0.7	0.6	10	0.6	0.3	0.2	75	0.20	0.169	5
991092	Soil	0.6	6.0	12.5	183	0.2	6.2	4.0	254	2.23	6.8	0.8	0.3	9	2.3	0.2	0.1	58	0.19	0.023	4
991093	Soil	1.4	12.9	19.8	410	0.2	16.2	9.0	887	3.30	15.2	<0.5	0.4	10	2.2	0.4	0.1	71	0.25	0.041	4
991094	Soil	1.1	16.7	36.8	151	0.2	18.2	9.6	495	3.52	15.0	<0.5	0.5	13	0.6	0.4	<0.1	67	0.19	0.035	4
991095	Soil	1.0	15.0	14.8	311	0.3	12.9	8.8	1571	2.68	7.8	<0.5	0.3	19	3.2	0.3	0.2	56	0.43	0.043	7
991096	Soil	0.7	8.9	10.3	183	0.2	8.4	6.0	454	2.13	4.4	0.6	0.4	14	0.9	0.2	0.1	51	0.25	0.020	7
991097	Soil	0.6	22.0	9.0	104	<0.1	18.8	7.8	371	2.96	12.9	0.6	0.7	15	0.2	0.5	0.1	57	0.17	0.035	6
991098	Soil	1.1	10.8	16.4	250	0.1	13.3	11.8	961	3.74	10.9	<0.5	0.4	21	1.2	0.3	0.2	71	0.35	0.147	5
991099	Soil	0.8	8.7	12.4	133	0.1	8.1	5.5	482	2.49	8.1	0.9	0.4	19	0.7	0.3	0.1	61	0.33	0.031	5
991100	Soil	0.7	14.1	11.6	227	0.2	16.9	8.7	936	2.96	13.1	<0.5	0.5	16	0.8	0.4	<0.1	56	0.38	0.038	5
991101	Soil	1.4	28.3	17.2	369	0.5	19.8	12.0	1960	3.47	24.4	1.2	0.6	26	3.2	0.6	0.1	61	0.63	0.083	8
991102	Soil	1.2	9.6	13.9	460	0.4	12.3	9.0	843	3.33	13.4	<0.5	0.3	11	2.0	0.3	0.1	64	0.21	0.116	5
991103	Soil	24.6	32.1	3230	3311	20.3	19.1	12.4	7664	5.88	107.0	<0.5	0.2	20	15.6	2.7	0.2	98	0.38	0.138	7

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Project: ZNT  
 Report Date: October 24, 2012

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CERTIFICATE OF ANALYSIS

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991074	Soil	18	0.36	155	0.034	<1	1.00	0.006	0.05	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991075	Soil	14	0.25	174	0.029	<1	0.83	0.005	0.04	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
991076	Soil	28	0.54	496	0.016	2	2.19	0.008	0.08	0.2	0.09	9.0	0.1	<0.05	6	<0.5	<0.2
991077	Soil	15	0.21	441	0.015	<1	0.79	0.005	0.06	0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
991078	Soil	16	0.25	371	0.015	<1	1.12	0.005	0.08	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
991079	Soil	16	0.32	142	0.018	<1	1.04	0.005	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991080	Soil	16	0.27	148	0.024	<1	0.91	0.005	0.05	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
991081	Soil	18	0.40	148	0.032	<1	0.98	0.006	0.07	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991082	Soil	9	0.08	148	0.031	<1	0.35	0.005	0.09	0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
991083	Soil	16	0.25	117	0.024	1	0.86	0.005	0.08	0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
991084	Soil	14	0.22	164	0.032	<1	0.76	0.006	0.04	0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
991085	Soil	13	0.18	208	0.024	<1	0.83	0.005	0.06	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
991086	Soil	19	0.38	358	0.021	1	1.66	0.005	0.05	0.2	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
991087	Soil	10	0.11	268	0.021	<1	0.59	0.005	0.07	0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
991088	Soil	18	0.37	145	0.032	1	1.13	0.006	0.07	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
991089	Soil	17	0.23	267	0.018	1	1.15	0.005	0.08	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
991090	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991091	Soil	22	0.39	157	0.012	<1	2.03	0.005	0.07	0.2	0.03	4.2	<0.1	<0.05	8	<0.5	<0.2
991092	Soil	12	0.17	129	0.025	<1	0.74	0.005	0.04	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
991093	Soil	21	0.47	141	0.019	<1	1.73	0.006	0.03	0.1	0.02	4.2	<0.1	<0.05	6	0.5	<0.2
991094	Soil	21	0.49	126	0.024	<1	1.39	0.005	0.05	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
991095	Soil	17	0.31	335	0.022	<1	1.20	0.006	0.06	0.2	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
991096	Soil	13	0.18	164	0.026	<1	0.89	0.005	0.07	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
991097	Soil	20	0.50	132	0.036	<1	1.42	0.006	0.05	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
991098	Soil	20	0.38	211	0.024	<1	1.34	0.005	0.07	0.1	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
991099	Soil	15	0.21	153	0.030	<1	0.85	0.006	0.06	0.2	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
991100	Soil	19	0.42	220	0.028	1	1.30	0.006	0.08	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
991101	Soil	21	0.48	294	0.029	2	1.33	0.009	0.13	0.1	0.05	5.9	<0.1	<0.05	5	<0.5	<0.2
991102	Soil	19	0.34	176	0.025	1	1.31	0.006	0.07	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
991103	Soil	17	0.08	1129	0.006	2	1.04	0.003	0.06	0.3	0.40	11.7	1.2	<0.05	5	1.3	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991104	Soil	1.8	10.0	7.0	104	0.3	9.8	5.5	783	3.72	6.5	<0.5	0.2	9	1.0	0.2	0.1	71	0.29	0.064	3
991105	Soil	1.3	7.5	10.9	175	0.2	5.7	5.3	523	2.47	14.7	<0.5	0.2	9	1.0	0.4	0.1	57	0.17	0.027	4
991111	Soil	1.3	5.6	5.8	115	0.4	3.4	4.0	346	1.95	9.4	<0.5	0.8	9	0.8	0.2	<0.1	43	0.12	0.017	11
991112	Soil	0.7	12.7	12.5	546	0.4	15.0	10.2	2026	3.02	10.8	<0.5	0.5	23	2.9	0.3	0.1	57	0.39	0.092	5
991113	Soil	0.7	17.1	11.0	163	0.1	16.1	9.7	1025	3.28	18.5	<0.5	0.4	16	0.5	0.4	0.1	64	0.27	0.052	5
991114	Soil	1.0	16.1	13.1	165	0.1	18.5	9.5	709	3.50	40.1	1.1	0.6	16	0.4	0.4	0.1	67	0.32	0.039	4
991115	Soil	0.9	12.9	9.9	256	0.3	11.9	8.1	3346	2.52	9.5	<0.5	0.2	16	1.5	0.3	0.1	51	0.27	0.033	5
991116	Soil	0.7	11.8	13.9	239	<0.1	11.3	10.0	1554	3.31	12.6	1.5	0.2	14	1.0	0.3	0.1	59	0.19	0.115	5
991117	Soil	0.7	18.0	10.9	205	<0.1	16.0	8.5	650	3.56	32.9	<0.5	0.6	13	0.4	0.5	0.1	60	0.21	0.069	4
991118	Soil	0.7	6.6	13.8	412	0.1	4.5	10.5	1020	4.98	20.9	<0.5	0.3	8	0.8	0.2	0.1	66	0.17	0.082	4
991119	Soil	0.6	12.7	9.0	158	0.1	14.3	7.6	648	2.84	22.9	<0.5	0.5	15	0.2	0.4	<0.1	57	0.20	0.051	5
991120	Soil	0.8	11.4	9.0	177	0.1	13.9	6.4	320	3.08	18.0	0.7	0.6	14	0.3	0.3	0.1	58	0.13	0.087	5
991121	Soil	0.6	19.0	8.1	71	<0.1	18.3	7.6	380	2.96	24.5	<0.5	0.8	18	<0.1	0.4	<0.1	55	0.13	0.031	5
991122	Soil	0.9	15.1	10.1	195	<0.1	18.9	9.3	792	3.57	25.6	0.7	0.7	13	0.2	0.3	0.2	66	0.15	0.084	5
991123	Soil	0.6	12.6	11.4	108	<0.1	14.7	7.2	527	2.67	15.3	0.6	0.4	18	0.2	0.3	<0.1	55	0.22	0.043	5
991124	Soil	0.6	10.1	7.8	137	0.1	11.3	6.4	425	2.68	7.8	<0.5	0.5	12	0.7	0.3	0.1	55	0.16	0.103	5
991125	Soil	0.4	13.0	6.8	121	<0.1	15.7	7.8	567	2.50	11.0	1.5	0.7	22	0.2	0.3	<0.1	49	0.24	0.046	7
991128	Soil	0.6	6.4	8.8	105	<0.1	10.9	6.0	232	2.40	8.8	<0.5	0.6	11	0.2	0.2	0.2	51	0.12	0.021	5
991129	Soil	0.6	21.7	8.8	112	0.1	20.2	7.0	443	2.89	26.7	2.2	0.8	19	<0.1	0.3	0.1	54	0.16	0.026	7
991130	Soil	0.6	7.8	7.7	102	<0.1	12.2	7.6	1274	2.47	15.2	<0.5	0.3	21	0.2	0.3	0.2	55	0.17	0.029	5
991131	Soil	0.7	11.9	7.6	134	0.1	19.2	7.7	1044	2.60	13.8	<0.5	0.2	39	0.3	0.4	0.1	55	0.37	0.070	4
991132	Soil	0.8	25.1	9.1	78	<0.1	22.0	10.1	540	3.35	126.6	<0.5	1.1	25	<0.1	0.6	0.2	67	0.19	0.033	6
991133	Soil	0.7	12.1	10.8	90	<0.1	17.2	9.2	391	3.19	19.2	<0.5	0.8	17	0.1	0.4	0.2	71	0.11	0.027	4
991134	Soil	1.0	15.7	13.5	170	<0.1	16.3	9.3	1069	2.89	34.2	0.5	0.5	24	1.0	0.5	0.1	56	0.30	0.033	5
991136	Soil	0.8	15.3	8.3	160	0.1	24.1	9.5	435	3.52	20.9	3.5	0.9	12	0.2	0.4	0.1	68	0.16	0.106	5
991137	Soil	0.7	6.5	8.4	62	<0.1	4.5	2.4	162	2.07	6.5	<0.5	0.3	10	0.4	0.3	0.1	50	0.10	0.028	5
991138	Soil	0.6	13.7	8.3	102	<0.1	15.4	7.4	464	2.97	18.9	<0.5	0.5	19	0.2	0.4	0.1	64	0.23	0.059	5
991139	Soil	0.6	10.7	8.8	121	<0.1	13.1	8.7	1581	2.79	15.0	<0.5	0.3	13	0.2	0.3	0.1	59	0.15	0.070	5
991140	Soil	0.8	35.2	10.7	120	<0.1	23.5	9.3	403	3.52	21.4	0.5	0.8	16	0.1	0.4	<0.1	71	0.13	0.049	5
991141	Soil	0.8	9.5	9.0	159	<0.1	14.2	8.5	1076	2.71	10.1	<0.5	0.4	18	0.4	0.2	0.1	55	0.31	0.052	4

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991104	Soil	24	0.09	100	0.006	<1	0.52	0.004	0.09	0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
991105	Soil	15	0.16	95	0.023	<1	0.68	0.005	0.05	0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
991111	Soil	6	0.09	156	0.012	<1	0.55	0.007	0.03	<0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
991112	Soil	20	0.36	423	0.030	2	1.36	0.006	0.09	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
991113	Soil	22	0.41	400	0.024	<1	1.62	0.005	0.06	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991114	Soil	21	0.48	234	0.024	<1	1.86	0.006	0.08	0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
991115	Soil	17	0.21	382	0.029	<1	1.22	0.005	0.07	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
991116	Soil	16	0.21	388	0.017	<1	1.51	0.004	0.09	0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
991117	Soil	19	0.37	238	0.021	1	1.64	0.005	0.09	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
991118	Soil	7	0.09	537	0.003	<1	1.12	0.003	0.09	0.1	0.04	8.6	<0.1	<0.05	4	<0.5	<0.2
991119	Soil	17	0.30	338	0.023	<1	1.33	0.004	0.07	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
991120	Soil	19	0.25	201	0.019	<1	1.72	0.005	0.04	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
991121	Soil	21	0.42	154	0.022	<1	1.57	0.005	0.04	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
991122	Soil	22	0.34	264	0.015	<1	2.30	0.006	0.06	<0.1	0.04	4.3	<0.1	<0.05	7	<0.5	<0.2
991123	Soil	19	0.41	169	0.029	<1	1.31	0.008	0.06	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991124	Soil	16	0.22	219	0.025	<1	1.21	0.006	0.05	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991125	Soil	19	0.42	176	0.032	<1	1.29	0.007	0.05	<0.1	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
991128	Soil	15	0.20	119	0.039	<1	1.08	0.006	0.04	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
991129	Soil	24	0.51	163	0.027	<1	1.73	0.008	0.06	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
991130	Soil	16	0.25	189	0.034	2	1.03	0.007	0.04	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
991131	Soil	18	0.37	166	0.027	2	1.37	0.007	0.04	0.2	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
991132	Soil	25	0.49	137	0.037	2	1.47	0.009	0.05	<0.1	0.04	5.1	0.2	<0.05	5	<0.5	<0.2
991133	Soil	22	0.36	132	0.032	2	1.44	0.007	0.04	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
991134	Soil	20	0.38	208	0.036	2	1.18	0.007	0.06	<0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
991136	Soil	23	0.43	159	0.026	1	2.22	0.006	0.06	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
991137	Soil	13	0.09	74	0.028	1	0.53	0.005	0.03	<0.1	0.03	1.8	<0.1	<0.05	3	<0.5	<0.2
991138	Soil	21	0.40	179	0.027	1	1.48	0.007	0.04	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991139	Soil	19	0.27	161	0.021	<1	1.48	0.006	0.04	<0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
991140	Soil	25	0.47	237	0.032	1	1.94	0.007	0.04	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
991141	Soil	19	0.33	313	0.030	1	1.25	0.006	0.07	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: October 24, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991142	Soil	0.7	9.9	6.8	122	<0.1	11.5	6.2	405	2.73	11.5	<0.5	0.4	12	0.2	0.3	0.1	58	0.16	0.028	5
991143	Soil	0.5	14.4	6.8	119	<0.1	20.1	8.7	791	2.85	12.9	<0.5	0.7	14	0.2	0.3	<0.1	54	0.19	0.026	5
991144	Soil	0.6	6.5	6.5	156	<0.1	9.5	5.7	553	2.23	4.5	<0.5	0.4	14	0.5	0.2	0.1	49	0.19	0.042	5
991145	Soil	0.8	15.6	9.0	134	0.1	17.3	9.3	878	2.59	14.3	<0.5	0.5	22	0.2	0.3	<0.1	55	0.31	0.031	7
991146	Soil	1.5	15.4	12.8	735	0.4	13.5	14.4	4965	3.95	73.8	6.4	0.3	20	2.1	0.3	0.2	51	0.27	0.092	6
991147	Soil	1.1	16.4	11.6	172	0.3	20.7	10.7	725	3.86	41.4	<0.5	0.7	14	0.2	0.5	<0.1	70	0.21	0.036	5
991148	Soil	1.2	22.1	13.6	352	0.2	17.9	14.5	1394	4.97	156.6	<0.5	0.7	14	0.8	0.8	0.1	129	0.34	0.048	6
991149	Soil	1.6	7.2	6.6	140	0.7	4.9	2.5	123	2.30	7.3	<0.5	0.4	12	0.7	0.2	<0.1	65	0.15	0.012	4
991155	Soil	1.0	8.4	7.9	149	0.3	6.3	5.7	292	2.02	5.4	<0.5	0.4	15	0.5	0.2	<0.1	56	0.36	0.013	3
991156	Soil	1.0	22.7	9.6	210	0.3	16.6	9.7	831	3.14	13.7	<0.5	0.8	19	0.9	0.3	<0.1	66	0.31	0.029	6
991157	Soil	0.8	8.4	5.7	79	0.1	15.6	8.1	253	2.67	5.1	1.8	0.6	14	0.3	0.2	<0.1	61	0.16	0.012	4
991158	Soil	0.8	14.6	7.9	105	0.6	8.6	3.5	151	1.77	4.9	<0.5	0.2	24	0.9	0.2	0.1	40	1.10	0.052	4
991159	Soil	1.3	10.6	16.1	362	0.3	10.5	8.8	1816	3.04	10.4	<0.5	0.1	23	3.8	0.4	0.1	58	0.61	0.055	4
991160	Soil	1.3	12.8	14.6	367	0.5	15.0	10.1	1235	3.83	14.7	0.8	0.3	13	2.0	0.4	0.1	73	0.32	0.072	4
991161	Soil	1.2	10.7	15.2	415	0.6	12.2	9.6	1065	3.57	11.7	<0.5	0.3	15	2.2	0.4	0.1	71	0.34	0.080	4
991162	Soil	0.9	15.9	9.9	203	0.2	17.0	9.5	1033	2.97	11.1	<0.5	0.5	14	1.1	0.4	<0.1	60	0.33	0.028	5
991164	Soil	29.2	14.1	19.1	297	0.4	9.4	12.6	4318	4.13	76.8	<0.5	0.2	13	1.9	0.8	0.2	74	0.49	0.065	3
991165	Soil	0.8	6.0	7.5	140	0.3	8.4	4.2	179	2.40	6.7	<0.5	0.5	10	0.7	0.3	<0.1	57	0.15	0.020	4
991166	Soil	2.5	7.4	8.5	207	0.7	4.7	4.1	748	1.90	7.5	<0.5	<0.1	14	1.9	0.3	0.1	43	0.40	0.038	4
991167	Soil	1.0	9.5	7.6	338	0.3	9.7	7.1	882	1.87	11.8	<0.5	<0.1	27	8.1	0.3	<0.1	39	0.72	0.064	3
991168	Soil	0.8	10.2	6.8	131	0.3	9.4	6.0	1015	2.10	5.1	<0.5	0.3	18	2.4	0.4	0.1	53	0.41	0.029	4
991169	Soil	0.6	9.2	6.1	73	0.2	5.3	3.2	304	1.58	2.7	<0.5	0.3	17	1.8	0.2	0.1	43	0.25	0.024	5
991170	Soil	0.7	19.8	7.2	123	0.2	17.7	7.9	985	2.50	6.2	<0.5	0.4	18	0.9	0.3	0.1	50	0.23	0.036	7
991171	Soil	0.7	9.7	7.3	197	0.1	14.3	7.8	312	2.70	6.8	<0.5	0.2	19	0.9	0.3	<0.1	54	0.34	0.123	5
991172	Soil	1.0	60.5	10.0	353	2.1	42.6	10.2	714	3.78	14.3	1.6	0.9	46	2.5	0.5	0.2	58	1.33	0.082	19
991173	Soil	0.7	30.8	9.7	235	0.8	19.0	8.7	635	3.12	11.1	0.6	0.5	18	2.2	0.4	0.2	56	0.74	0.043	7
991174	Soil	0.8	32.3	11.4	370	1.0	22.9	10.0	775	3.34	11.8	<0.5	0.8	19	3.5	0.5	0.2	59	0.92	0.041	10
991175	Soil	0.8	17.5	11.8	189	0.2	19.2	10.1	600	3.26	13.1	1.0	0.7	17	1.4	0.4	0.1	57	0.56	0.033	5
991176	Soil	1.2	12.6	9.7	234	0.4	13.9	7.2	580	2.83	7.7	0.7	0.3	15	1.6	0.3	0.3	57	0.39	0.043	5
991177	Soil	2.2	15.9	24.1	660	0.8	15.3	11.6	1771	4.10	25.5	3.6	0.4	12	3.2	0.5	0.2	82	0.35	0.054	5

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991142	Soil	18	0.30	188	0.030	1	1.11	0.006	0.05	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
991143	Soil	23	0.45	281	0.037	<1	1.38	0.007	0.07	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
991144	Soil	15	0.23	189	0.040	2	0.87	0.006	0.06	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
991145	Soil	21	0.38	238	0.033	2	1.29	0.007	0.08	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
991146	Soil	20	0.22	820	0.016	1	1.88	0.007	0.11	0.1	0.05	4.8	0.2	<0.05	7	<0.5	<0.2
991147	Soil	24	0.48	220	0.025	1	1.86	0.006	0.05	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
991148	Soil	24	0.46	307	0.017	1	2.01	0.006	0.07	0.1	0.03	11.0	0.2	<0.05	7	<0.5	<0.2
991149	Soil	11	0.17	124	0.021	1	0.83	0.007	0.01	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
991155	Soil	11	0.30	269	0.014	2	1.06	0.008	0.10	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
991156	Soil	20	0.50	251	0.016	2	1.62	0.007	0.03	<0.1	0.04	7.2	0.1	<0.05	6	<0.5	<0.2
991157	Soil	21	0.40	173	0.024	<1	1.49	0.007	0.02	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991158	Soil	13	0.19	338	0.012	2	1.02	0.007	0.02	0.1	0.07	2.6	<0.1	<0.05	4	<0.5	<0.2
991159	Soil	17	0.28	339	0.021	3	1.04	0.006	0.06	0.1	0.07	2.8	<0.1	<0.05	5	<0.5	<0.2
991160	Soil	22	0.40	205	0.023	2	1.24	0.006	0.09	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
991161	Soil	20	0.37	302	0.027	2	1.22	0.006	0.11	0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
991162	Soil	20	0.38	206	0.025	2	1.30	0.007	0.05	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
991164	Soil	15	0.23	319	0.013	3	0.89	0.005	0.12	0.2	0.04	4.6	0.3	<0.05	5	<0.5	<0.2
991165	Soil	15	0.24	102	0.033	1	0.88	0.006	0.04	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
991166	Soil	10	0.11	137	0.019	2	0.57	0.005	0.06	0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
991167	Soil	14	0.27	202	0.026	3	0.75	0.005	0.08	0.1	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
991168	Soil	14	0.22	187	0.039	1	0.68	0.006	0.07	0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
991169	Soil	11	0.12	134	0.040	1	0.47	0.006	0.06	0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
991170	Soil	21	0.42	173	0.032	2	1.25	0.007	0.06	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
991171	Soil	19	0.37	125	0.027	2	1.28	0.006	0.06	0.1	0.09	2.4	<0.1	<0.05	5	<0.5	<0.2
991172	Soil	36	0.62	624	0.004	2	2.93	0.013	0.15	0.1	0.15	10.8	0.1	<0.05	8	<0.5	<0.2
991173	Soil	21	0.41	257	0.025	1	1.51	0.008	0.05	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
991174	Soil	25	0.45	301	0.020	1	1.93	0.008	0.06	0.2	0.06	8.0	0.1	<0.05	6	<0.5	<0.2
991175	Soil	21	0.45	195	0.023	2	1.67	0.007	0.05	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
991176	Soil	19	0.33	169	0.021	2	1.21	0.005	0.06	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991177	Soil	23	0.53	190	0.021	2	2.14	0.006	0.05	0.1	0.03	4.4	<0.1	<0.05	9	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
991178	Soil	3.5	20.9	56.0	1705	1.6	9.4	17.0	4380	4.28	25.4	<0.5	0.3	15	8.3	0.6	0.2	83	0.60	0.072	7
991180	Soil	1.2	17.3	10.3	256	0.2	18.7	8.6	482	3.32	16.0	1.1	0.5	14	0.6	0.4	<0.1	63	0.22	0.035	5
991181	Soil	0.8	8.7	10.8	380	0.3	11.2	8.5	641	2.97	8.9	0.8	0.5	11	1.8	0.4	0.1	60	0.25	0.032	5
991182	Soil	1.3	104.3	20.4	983	2.2	34.1	14.7	3196	4.93	12.9	1.8	1.7	36	13.5	0.7	0.4	70	1.51	0.071	21
991183	Soil	0.8	18.0	16.1	216	0.1	14.7	9.6	974	3.20	12.8	0.8	0.2	17	0.9	0.3	0.1	60	0.40	0.112	5
991184	Soil	0.7	16.9	10.9	166	0.2	12.8	6.0	478	2.37	5.9	1.1	0.2	21	0.9	0.3	0.2	51	0.33	0.042	9
991185	Soil	0.5	14.7	6.8	127	0.1	17.4	7.6	606	2.44	4.8	1.0	0.4	27	0.5	0.3	0.1	50	0.34	0.027	9
991186	Soil	1.1	24.9	15.0	276	0.6	18.8	8.8	1376	2.84	11.1	0.6	0.5	26	1.3	0.3	0.1	56	0.60	0.045	8
991187	Soil	1.1	19.1	32.9	673	0.7	17.0	8.9	1163	3.33	12.3	0.8	0.5	14	4.5	0.3	0.2	64	0.61	0.045	8
991188	Soil	1.7	17.3	26.9	443	0.3	19.8	10.1	1039	3.48	16.5	<0.5	0.7	10	1.0	0.4	0.1	69	0.18	0.057	5
991189	Soil	0.9	23.0	17.9	261	0.4	18.6	9.5	1102	2.74	8.6	1.3	0.3	40	3.6	0.3	0.1	52	0.76	0.042	9
991190	Soil	0.8	15.7	26.9	318	0.6	12.3	10.0	1940	2.89	10.3	<0.5	0.1	24	3.7	0.4	0.1	61	0.44	0.099	5
991191	Soil	0.9	12.7	24.5	317	0.3	12.3	10.5	2271	3.07	10.6	1.0	0.2	18	3.0	0.3	0.2	64	0.32	0.060	5
991192	Soil	0.6	16.4	20.4	295	0.1	13.6	8.4	845	2.87	9.5	<0.5	0.2	21	3.0	0.3	0.2	58	0.36	0.123	5
991193	Soil	0.8	13.6	17.4	437	<0.1	9.4	9.2	2640	2.99	7.9	6.6	0.1	22	4.7	0.3	0.2	69	1.08	0.083	4
991194	Soil	1.3	15.9	16.8	179	0.2	9.8	6.3	269	2.70	47.1	<0.5	0.4	38	1.4	0.3	0.1	59	0.60	0.027	6
991195	Soil	1.6	16.1	16.7	229	0.2	17.9	8.7	468	3.22	12.8	0.8	0.5	11	1.0	0.4	<0.1	63	0.17	0.032	4
991196	Soil	1.2	16.3	19.6	604	0.5	10.1	8.1	3052	2.59	8.1	3.6	<0.1	22	7.9	0.3	0.2	53	0.69	0.139	5
991197	Soil	1.7	151.3	16.4	880	3.2	36.2	11.2	2126	4.69	18.2	<0.5	0.9	37	15.0	0.6	0.3	69	2.58	0.105	15
991198	Soil	1.6	22.3	14.4	266	0.2	16.6	8.7	643	3.75	12.6	10.0	0.2	29	1.6	0.3	0.1	69	0.40	0.099	4
991199	Soil	0.9	18.3	11.0	230	0.1	17.9	6.7	309	3.14	10.9	0.6	0.8	14	0.5	0.3	0.1	64	0.18	0.104	6
991200	Soil	1.0	23.1	12.7	329	0.4	18.1	11.4	1254	3.56	12.8	2.6	0.8	23	1.7	0.3	0.2	62	0.90	0.047	5
991201	Soil	0.7	11.7	10.3	230	0.2	14.3	7.4	673	2.90	8.7	0.8	0.2	16	0.9	0.3	<0.1	59	0.27	0.052	5
991202	Soil	0.7	9.1	7.9	202	0.2	9.7	6.7	548	2.46	6.4	0.8	0.3	14	1.5	0.3	<0.1	55	0.33	0.040	4
991203	Soil	0.8	14.0	10.4	416	0.3	13.1	8.9	1456	2.75	8.6	<0.5	0.3	17	4.1	0.3	0.1	56	0.38	0.063	5
991204	Soil	1.0	11.9	11.8	278	0.2	13.8	8.8	658	2.86	9.2	<0.5	0.4	18	1.4	0.3	<0.1	60	0.38	0.052	4
991205	Soil	0.7	9.1	8.7	229	0.2	10.9	6.6	528	2.68	8.9	0.6	0.2	15	1.6	0.3	0.1	62	0.26	0.050	5
991206	Soil	0.8	10.3	6.8	246	0.3	15.2	7.7	825	2.31	5.7	0.9	0.1	23	3.1	0.3	0.1	48	0.51	0.052	5
991207	Soil	0.8	10.6	8.0	205	<0.1	13.8	7.7	502	2.59	8.0	<0.5	0.3	16	1.7	0.4	<0.1	59	0.49	0.037	4
991208	Soil	0.6	12.6	6.3	258	0.4	15.5	6.8	1166	1.98	4.0	1.9	0.2	24	2.2	0.2	0.1	42	0.64	0.046	6

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Project: ZNT  
 Report Date: October 24, 2012

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991178	Soil	16	0.47	438	0.024	3	1.65	0.005	0.05	0.2	0.05	4.7	0.1	<0.05	10	<0.5	<0.2
991180	Soil	21	0.48	149	0.028	2	1.59	0.008	0.04	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
991181	Soil	17	0.33	146	0.032	<1	1.14	0.005	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991182	Soil	36	0.54	685	0.024	2	2.94	0.012	0.09	<0.1	0.07	16.8	0.2	<0.05	8	1.1	<0.2
991183	Soil	18	0.37	247	0.017	2	1.50	0.005	0.07	0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
991184	Soil	17	0.30	224	0.019	3	1.41	0.006	0.06	0.1	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
991185	Soil	19	0.40	191	0.034	2	1.42	0.008	0.06	0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
991186	Soil	21	0.39	305	0.013	2	1.72	0.007	0.09	<0.1	0.05	5.6	<0.1	<0.05	6	<0.5	<0.2
991187	Soil	22	0.36	307	0.025	2	2.10	0.007	0.09	0.2	0.05	5.7	0.1	<0.05	6	<0.5	<0.2
991188	Soil	23	0.40	347	0.017	2	2.35	0.005	0.04	<0.1	0.05	4.8	0.1	<0.05	7	<0.5	<0.2
991189	Soil	20	0.41	350	0.020	3	1.66	0.007	0.08	0.1	0.07	4.0	<0.1	<0.05	5	0.5	<0.2
991190	Soil	18	0.27	368	0.021	2	1.21	0.006	0.06	<0.1	0.06	2.4	<0.1	<0.05	5	<0.5	<0.2
991191	Soil	18	0.28	303	0.020	1	1.40	0.006	0.06	0.1	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2
991192	Soil	19	0.40	186	0.021	2	1.43	0.006	0.07	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
991193	Soil	16	0.27	358	0.020	3	1.21	0.005	0.10	0.1	0.07	2.4	<0.1	<0.05	7	<0.5	<0.2
991194	Soil	16	0.23	209	0.020	2	1.30	0.007	0.04	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
991195	Soil	21	0.43	139	0.018	1	1.89	0.006	0.04	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
991196	Soil	15	0.28	364	0.017	3	1.28	0.005	0.19	0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
991197	Soil	32	0.43	524	0.011	3	3.15	0.010	0.09	<0.1	0.13	13.2	0.2	0.08	8	0.7	<0.2
991198	Soil	22	0.36	245	0.010	1	1.67	0.005	0.07	<0.1	0.05	4.0	<0.1	<0.05	6	<0.5	<0.2
991199	Soil	21	0.43	139	0.021	1	2.12	0.006	0.06	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
991200	Soil	23	0.44	332	0.013	2	2.17	0.010	0.07	<0.1	0.05	7.8	0.1	<0.05	6	<0.5	<0.2
991201	Soil	19	0.36	133	0.026	2	1.30	0.006	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991202	Soil	15	0.26	108	0.034	2	0.91	0.006	0.07	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991203	Soil	18	0.33	232	0.027	2	1.16	0.006	0.06	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991204	Soil	18	0.36	190	0.024	1	1.34	0.005	0.06	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
991205	Soil	17	0.32	169	0.024	1	1.26	0.006	0.05	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
991206	Soil	16	0.34	194	0.028	2	1.10	0.005	0.08	0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
991207	Soil	19	0.36	132	0.028	1	1.15	0.006	0.08	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991208	Soil	17	0.32	221	0.028	2	1.26	0.006	0.06	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
991209	Soil	0.7	14.8	8.1	169	<0.1	18.7	9.3	756	2.77	8.1	0.5	0.3	22	1.4	0.3	0.1	54	0.45	0.096	5
991211	Soil	1.8	47.9	14.9	438	0.4	23.2	21.6	3961	6.09	48.6	7.9	1.1	27	2.1	0.5	0.4	157	0.63	0.137	6
991212	Soil	0.8	18.5	13.0	190	0.2	16.2	6.8	404	3.22	9.8	3.8	0.6	12	0.6	0.4	0.2	69	0.12	0.117	5
991213	Soil	0.7	13.6	11.0	214	0.3	17.9	9.0	979	2.91	9.3	3.1	0.5	22	1.1	0.4	0.1	65	0.28	0.071	7
991214	Soil	1.4	18.6	15.3	326	0.2	17.3	11.2	1208	3.57	34.5	1.4	0.6	19	2.5	0.5	0.2	73	0.31	0.036	5
991215	Soil	0.7	10.3	11.5	558	0.3	14.9	8.7	670	3.01	8.9	<0.5	0.5	20	2.5	0.4	0.1	62	0.32	0.058	6
991216	Soil	0.7	17.5	12.1	328	0.1	17.9	8.6	789	3.17	9.8	1.0	0.6	17	1.5	0.4	0.2	62	0.26	0.138	6
991217	Soil	0.6	8.1	9.8	223	0.3	6.8	5.3	450	2.17	5.6	1.1	0.4	13	2.1	0.4	0.1	50	0.13	0.043	6
991218	Soil	0.9	8.0	12.2	476	0.6	11.2	6.3	830	2.77	7.2	1.3	0.5	20	7.9	0.3	0.1	60	0.38	0.040	5
991219	Soil	1.0	8.9	14.5	587	0.2	10.4	7.5	815	3.35	10.2	<0.5	0.5	16	2.5	0.4	0.2	68	0.27	0.050	5
991220	Soil	3.1	72.1	35.0	1757	6.1	30.9	14.5	8392	4.02	23.1	1.1	0.9	39	17.1	0.9	0.3	69	1.36	0.095	50
991221	Soil	1.1	14.4	14.4	285	0.6	16.2	8.5	585	3.44	13.1	<0.5	0.5	22	1.6	0.5	0.2	70	0.38	0.069	5
991250	Soil	0.5	13.1	10.5	179	0.2	9.2	5.7	576	2.60	5.1	0.6	0.4	19	0.7	0.3	0.2	63	0.41	0.042	8
991251	Soil	0.9	25.4	13.2	246	0.5	16.8	9.4	1348	3.02	9.9	<0.5	0.4	30	1.5	0.4	0.2	62	0.83	0.057	9
991252	Soil	0.8	12.1	12.7	388	0.4	17.1	9.2	741	3.41	12.4	<0.5	0.5	20	0.9	0.4	0.1	66	0.30	0.048	6
991253	Soil	0.9	10.5	13.1	350	0.2	11.0	8.7	723	2.84	12.6	0.6	0.2	19	2.0	0.4	0.1	61	0.43	0.047	5
991254	Soil	0.6	8.0	9.0	130	0.1	8.3	5.3	341	2.76	5.8	0.9	0.7	11	0.3	0.4	0.1	68	0.14	0.027	5
991255	Soil	0.7	10.2	9.0	181	0.4	12.6	6.3	291	2.91	8.8	4.7	0.4	16	0.6	0.4	0.1	59	0.22	0.038	5
991256	Soil	0.8	9.6	13.0	405	0.6	7.7	8.6	1932	2.60	4.3	0.7	0.3	21	3.5	0.3	0.2	57	0.37	0.049	6
991257	Soil	0.8	18.4	13.5	318	0.4	12.8	9.0	754	2.67	8.9	<0.5	0.5	18	4.1	0.4	0.2	60	0.36	0.026	9
991258	Soil	0.6	26.9	11.3	221	0.6	22.0	10.3	811	3.17	14.2	<0.5	0.8	31	1.5	0.5	0.1	59	0.68	0.031	11
991259	Soil	1.4	34.9	18.1	572	0.8	21.7	13.4	1932	3.82	18.8	25.6	0.5	30	4.0	0.5	0.2	72	0.50	0.064	13
991260	Soil	1.0	17.1	11.5	332	0.5	13.7	8.5	790	3.20	23.4	<0.5	0.3	31	2.5	0.4	0.2	67	0.52	0.088	6
991261	Soil	1.2	23.8	10.7	359	0.6	22.1	9.7	1117	3.92	14.2	<0.5	0.8	28	2.0	0.4	0.2	65	0.41	0.051	11
991262	Soil	0.6	13.9	8.0	232	0.3	14.3	7.5	543	2.85	7.4	<0.5	0.5	23	3.0	0.4	0.1	59	0.29	0.044	6
991263	Soil	1.1	91.2	13.5	416	2.0	45.3	13.2	1106	4.13	14.9	<0.5	1.2	79	6.6	0.7	0.2	68	1.36	0.086	37
991266	Soil	0.8	10.5	18.6	317	0.2	10.4	8.1	878	2.79	12.8	<0.5	0.4	23	2.4	0.4	0.1	61	0.41	0.043	5
991267	Soil	1.0	11.0	11.1	315	0.4	12.8	8.3	1351	2.82	9.1	<0.5	0.3	21	2.7	0.4	0.1	59	0.40	0.055	5
991268	Soil	1.1	26.0	14.2	348	0.4	19.4	10.4	1129	3.64	23.5	<0.5	0.6	21	2.8	0.6	0.1	66	0.42	0.059	8
991270	Soil	0.8	10.4	13.5	483	0.5	15.9	8.9	556	3.59	15.3	0.8	0.6	16	1.7	0.5	0.2	67	0.24	0.053	5

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Project: ZNT  
 Report Date: October 24, 2012

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CERTIFICATE OF ANALYSIS

SMI12000467.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991209	Soil	21	0.44	146	0.030	2	1.39	0.006	0.09	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
991211	Soil	27	0.54	665	0.014	3	3.18	0.007	0.29	0.2	0.08	15.5	0.1	<0.05	12	<0.5	<0.2
991212	Soil	21	0.42	119	0.025	1	1.98	0.007	0.05	<0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
991213	Soil	22	0.34	200	0.037	1	1.85	0.007	0.06	0.1	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
991214	Soil	21	0.38	206	0.039	2	1.43	0.007	0.07	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
991215	Soil	19	0.41	225	0.050	2	1.38	0.007	0.09	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991216	Soil	22	0.44	219	0.030	1	2.28	0.005	0.09	<0.1	0.04	3.9	<0.1	<0.05	7	<0.5	<0.2
991217	Soil	14	0.23	178	0.041	<1	0.92	0.006	0.06	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
991218	Soil	18	0.30	292	0.038	<1	1.23	0.006	0.07	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
991219	Soil	17	0.34	211	0.043	2	1.34	0.007	0.07	0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
991220	Soil	35	0.43	910	0.035	3	3.32	0.011	0.11	0.3	0.21	14.7	0.3	<0.05	9	1.8	<0.2
991221	Soil	19	0.45	193	0.039	3	1.68	0.007	0.08	0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
991250	Soil	17	0.28	295	0.038	1	1.25	0.008	0.07	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
991251	Soil	21	0.37	357	0.027	2	1.86	0.010	0.07	0.1	0.04	4.8	<0.1	<0.05	6	<0.5	<0.2
991252	Soil	21	0.49	133	0.053	2	1.59	0.008	0.07	0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
991253	Soil	16	0.31	148	0.033	2	1.23	0.007	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
991254	Soil	16	0.27	93	0.050	<1	0.94	0.007	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
991255	Soil	17	0.32	125	0.038	1	1.36	0.007	0.05	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991256	Soil	15	0.23	292	0.050	2	1.00	0.007	0.08	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
991257	Soil	18	0.34	179	0.037	<1	1.27	0.007	0.08	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
991258	Soil	23	0.52	299	0.036	1	1.71	0.010	0.08	<0.1	0.08	6.4	<0.1	<0.05	5	0.6	<0.2
991259	Soil	26	0.50	371	0.038	2	2.23	0.010	0.10	0.2	0.05	6.5	<0.1	<0.05	7	0.6	<0.2
991260	Soil	18	0.35	236	0.033	2	1.29	0.007	0.13	0.2	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
991261	Soil	24	0.55	279	0.029	1	1.86	0.009	0.10	0.1	0.04	6.2	<0.1	<0.05	6	<0.5	<0.2
991262	Soil	19	0.36	189	0.060	1	1.12	0.007	0.09	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
991263	Soil	40	0.86	641	0.011	1	3.64	0.012	0.20	0.1	0.17	15.2	0.1	<0.05	9	1.3	<0.2
991266	Soil	17	0.28	162	0.042	1	0.92	0.006	0.09	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991267	Soil	18	0.35	176	0.034	1	1.18	0.006	0.07	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991268	Soil	21	0.50	206	0.040	1	1.73	0.008	0.07	0.1	0.04	5.7	<0.1	<0.05	5	<0.5	<0.2
991270	Soil	21	0.49	189	0.044	<1	1.68	0.008	0.09	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2

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**Project:** ZNT  
**Report Date:** October 24, 2012

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# CERTIFICATE OF ANALYSIS

SMI12000467.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
991269	Soil	0.9	10.9	11.0	247	<0.1	6.0	8.4	1224	5.85	13.2	<0.5	0.3	13	1.1	0.4	0.1	68	0.19	0.134	6
991034	Soil	0.6	8.4	9.6	131	<0.1	16.4	10.6	2175	2.64	27.4	1.9	0.4	26	0.3	0.4	0.1	53	0.38	0.039	4



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CERTIFICATE OF ANALYSIS

SMI12000467.1

Method	1DX15																
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
991269	Soil	10	0.40	250	0.009	2	1.71	0.006	0.12	<0.1	0.02	4.7	<0.1	<0.05	8	<0.5	<0.2
991034	Soil	18	0.27	236	0.031	2	1.27	0.006	0.09	<0.1	0.04	2.8	<0.1	<0.05	5	<0.5	<0.2



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# QUALITY CONTROL REPORT

SMI12000467.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
991005	Soil	2.0	6.1	11.2	255	0.2	9.2	6.1	306	2.42	9.5	1.2	0.5	10	0.8	0.3	0.2	54	0.29	0.013	3
REP 991005	QC	1.9	5.9	11.6	262	0.2	9.2	6.0	314	2.40	9.7	1.1	0.6	11	0.9	0.4	0.2	53	0.29	0.012	3
991025	Soil	0.7	21.0	10.6	173	0.2	18.7	9.8	1203	2.95	18.0	0.6	0.6	24	0.8	0.4	0.1	55	0.31	0.045	7
REP 991025	QC	0.6	20.4	10.5	169	0.2	17.5	9.9	1211	2.90	17.6	<0.5	0.6	25	0.9	0.4	<0.1	53	0.29	0.043	7
991042	Soil	0.6	7.9	7.7	98	0.1	8.2	5.8	941	2.37	8.8	1.3	0.3	11	0.3	0.3	0.2	51	0.15	0.040	4
REP 991042	QC	0.6	8.2	7.9	102	0.1	8.7	6.1	963	2.49	8.8	0.8	0.4	12	0.3	0.3	0.1	54	0.15	0.040	5
991070	Soil	1.1	10.9	9.7	238	0.4	9.8	6.3	607	2.42	7.4	2.5	<0.1	23	1.9	0.3	0.2	56	0.43	0.051	4
REP 991070	QC	0.9	11.9	10.2	249	0.5	10.4	6.7	640	2.41	7.5	1.1	<0.1	24	2.0	0.3	0.2	61	0.46	0.053	4
991086	Soil	0.9	13.4	17.8	256	0.1	13.7	10.3	1081	3.72	15.3	0.9	0.4	18	0.9	0.4	0.2	79	0.24	0.106	5
REP 991086	QC	1.0	13.9	17.5	263	0.1	14.6	10.9	1074	3.83	15.5	2.7	0.5	18	0.8	0.4	0.2	84	0.25	0.102	5
991112	Soil	0.7	12.7	12.5	546	0.4	15.0	10.2	2026	3.02	10.8	<0.5	0.5	23	2.9	0.3	0.1	57	0.39	0.092	5
REP 991112	QC	0.8	13.8	12.7	569	0.4	16.3	10.9	2199	3.23	11.4	<0.5	0.6	24	2.8	0.3	0.1	60	0.40	0.098	5
991130	Soil	0.6	7.8	7.7	102	<0.1	12.2	7.6	1274	2.47	15.2	<0.5	0.3	21	0.2	0.3	0.2	55	0.17	0.029	5
REP 991130	QC	0.5	7.9	7.4	101	<0.1	12.0	7.8	1281	2.45	15.4	<0.5	0.3	21	0.2	0.3	0.1	56	0.17	0.029	5
991156	Soil	1.0	22.7	9.6	210	0.3	16.6	9.7	831	3.14	13.7	<0.5	0.8	19	0.9	0.3	<0.1	66	0.31	0.029	6
REP 991156	QC	1.0	22.5	9.6	210	0.3	16.7	9.7	823	3.11	13.6	0.5	0.7	19	0.9	0.4	<0.1	64	0.30	0.029	5
991173	Soil	0.7	30.8	9.7	235	0.8	19.0	8.7	635	3.12	11.1	0.6	0.5	18	2.2	0.4	0.2	56	0.74	0.043	7
REP 991173	QC	0.7	33.4	9.9	245	0.9	20.0	9.1	671	3.21	11.6	0.9	0.5	18	2.1	0.4	0.1	58	0.79	0.044	7
991194	Soil	1.3	15.9	16.8	179	0.2	9.8	6.3	269	2.70	47.1	<0.5	0.4	38	1.4	0.3	0.1	59	0.60	0.027	6
REP 991194	QC	1.3	16.7	17.4	179	0.2	10.7	6.4	296	2.75	47.2	<0.5	0.4	38	1.3	0.3	0.2	64	0.63	0.029	5
991259	Soil	1.4	34.9	18.1	572	0.8	21.7	13.4	1932	3.82	18.8	25.6	0.5	30	4.0	0.5	0.2	72	0.50	0.064	13
REP 991259	QC	1.4	32.5	18.0	556	0.8	21.1	13.0	1930	3.59	18.5	<0.5	0.5	30	4.0	0.5	0.2	71	0.50	0.061	13
Reference Materials																					
STD DS9	Standard	13.6	106.0	115.0	296	1.8	38.8	7.4	560	2.21	23.9	120.5	6.6	64	2.3	5.2	5.2	43	0.66	0.077	13
STD DS9	Standard	13.1	111.7	124.1	315	1.8	40.7	7.5	590	2.46	26.4	131.2	6.7	69	2.4	6.4	6.2	41	0.73	0.084	13
STD DS9	Standard	12.4	104.6	114.0	292	1.8	38.3	7.3	569	2.20	24.5	108.3	6.7	72	2.3	5.1	6.1	40	0.77	0.078	16
STD DS9	Standard	13.5	107.6	112.1	299	1.9	38.8	7.3	572	2.23	25.7	111.6	6.3	69	2.5	4.9	6.1	39	0.71	0.082	15
STD DS9	Standard	13.3	108.4	119.8	304	1.7	41.2	7.8	598	2.38	25.0	127.1	6.2	68	2.4	5.1	5.7	44	0.72	0.086	13



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Project: ZNT  
Report Date: October 24, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000467.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
991005	Soil	13	0.23	132	0.019	1	1.01	0.005	0.02	0.1	0.03	2.5	0.1	<0.05	4	<0.5	<0.2
REP 991005	QC	14	0.23	135	0.019	1	1.03	0.006	0.02	0.1	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
991025	Soil	21	0.34	213	0.036	2	1.34	0.007	0.08	0.2	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
REP 991025	QC	20	0.33	207	0.034	1	1.29	0.007	0.08	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
991042	Soil	14	0.17	156	0.027	<1	0.91	0.006	0.04	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 991042	QC	14	0.18	156	0.029	2	0.96	0.005	0.04	0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
991070	Soil	15	0.24	192	0.021	1	0.98	0.007	0.06	0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 991070	QC	15	0.25	193	0.029	<1	1.03	0.007	0.06	0.2	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
991086	Soil	19	0.38	358	0.021	1	1.66	0.005	0.05	0.2	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
REP 991086	QC	21	0.34	356	0.031	1	1.59	0.006	0.06	0.2	0.03	4.1	<0.1	<0.05	7	<0.5	<0.2
991112	Soil	20	0.36	423	0.030	2	1.36	0.006	0.09	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
REP 991112	QC	21	0.36	425	0.032	3	1.49	0.006	0.10	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
991130	Soil	16	0.25	189	0.034	2	1.03	0.007	0.04	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
REP 991130	QC	16	0.25	191	0.034	2	0.96	0.006	0.04	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
991156	Soil	20	0.50	251	0.016	2	1.62	0.007	0.03	<0.1	0.04	7.2	0.1	<0.05	6	<0.5	<0.2
REP 991156	QC	20	0.51	255	0.015	1	1.69	0.007	0.03	<0.1	0.03	7.0	0.1	<0.05	5	<0.5	<0.2
991173	Soil	21	0.41	257	0.025	1	1.51	0.008	0.05	0.1	0.05	5.3	<0.1	<0.05	5	<0.5	<0.2
REP 991173	QC	22	0.43	261	0.024	2	1.67	0.008	0.06	0.1	0.05	5.7	<0.1	<0.05	5	<0.5	<0.2
991194	Soil	16	0.23	209	0.020	2	1.30	0.007	0.04	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
REP 991194	QC	17	0.22	216	0.023	2	1.29	0.007	0.04	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
991259	Soil	26	0.50	371	0.038	2	2.23	0.010	0.10	0.2	0.05	6.5	<0.1	<0.05	7	0.6	<0.2
REP 991259	QC	25	0.51	372	0.040	2	2.08	0.010	0.10	0.2	0.05	6.4	0.1	<0.05	7	0.8	<0.2
Reference Materials																	
STD DS9	Standard	121	0.61	283	0.112	2	0.84	0.086	0.36	2.8	0.22	2.6	5.3	0.08	4	4.9	5.0
STD DS9	Standard	120	0.64	309	0.119	2	0.99	0.086	0.40	3.2	0.24	2.8	5.5	0.16	5	6.1	5.7
STD DS9	Standard	114	0.60	313	0.111	3	0.95	0.087	0.39	3.0	0.24	2.6	5.3	0.13	5	5.6	4.6
STD DS9	Standard	114	0.63	303	0.101	1	0.92	0.082	0.39	3.2	0.21	2.7	5.2	0.12	5	5.6	4.8
STD DS9	Standard	123	0.64	298	0.110	3	0.93	0.082	0.39	3.0	0.20	2.6	5.7	0.10	4	5.0	5.4

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Project: ZNT

Report Date: October 24, 2012

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# QUALITY CONTROL REPORT

SMI12000467.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS9	Standard	14.5	121.2	126.9	339	2.0	41.2	7.9	636	2.54	26.2	133.2	8.1	85	2.7	6.3	7.4	45	0.79	0.086	19
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
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Page: 2 of 2

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QUALITY CONTROL REPORT

SMI12000467.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS9	Standard	124	0.67	341	0.141	2	1.05	0.097	0.43	3.3	0.20	3.0	5.8	0.10	5	5.8	5.5
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 17, 2012

Report Date: November 06, 2012

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# CERTIFICATE OF ANALYSIS

# SMI12000482.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-04\_201210  
P.O. Number: QZM-ZNT-04  
Number of Samples: 207

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	205	Dry at 60C			SMI
SS80	205	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	204	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

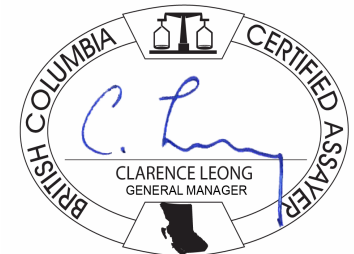
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Project: ZNT  
 Report Date: November 06, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000482.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.01	0.001	ppm	
991222	Soil	1.2	11.3	16.9	538	1.1	7.8	7.3	1322	2.16	8.8	14.4	0.1	26	7.6	0.4	0.1	44	0.83	0.067	4
991223	Soil	1.4	12.3	20.4	864	0.9	13.3	11.3	1229	3.76	15.8	<0.5	0.5	13	4.6	0.5	0.2	70	0.29	0.085	6
991224	Soil	1.4	13.1	21.5	546	0.4	15.9	10.6	1367	3.70	20.5	<0.5	0.4	16	2.0	0.6	0.1	72	0.30	0.067	5
991225	Soil	0.9	11.1	12.7	340	0.3	12.1	7.7	1273	3.00	9.8	<0.5	0.4	15	2.0	0.5	0.2	64	0.28	0.079	5
991226	Soil	1.0	11.3	11.2	228	0.2	14.0	10.0	980	2.53	7.7	<0.5	0.3	24	1.9	0.3	0.1	59	0.56	0.035	5
991228	Soil	0.9	11.4	9.6	339	0.1	17.2	10.6	907	3.05	10.5	<0.5	0.6	17	1.6	0.4	0.1	64	0.29	0.022	5
991229	Soil	0.8	10.6	9.8	579	0.2	16.2	10.4	1220	3.12	8.2	<0.5	0.5	18	3.8	0.4	0.1	62	0.28	0.077	5
991230	Soil	0.9	9.7	6.7	348	0.3	16.3	7.9	345	3.03	7.6	<0.5	0.5	13	0.8	0.4	0.1	60	0.20	0.068	5
991231	Soil	0.7	17.7	8.2	270	0.5	18.2	8.4	1160	2.46	5.1	<0.5	0.5	22	2.0	0.3	0.1	52	0.33	0.045	8
991232	Soil	0.6	12.7	6.8	195	0.2	20.3	8.6	411	2.98	7.7	<0.5	0.6	18	0.7	0.4	<0.1	61	0.26	0.084	5
991233	Soil	2.0	12.7	44.3	935	9.8	12.1	12.3	980	4.12	72.7	<0.5	0.5	26	6.1	1.1	0.1	64	0.41	0.081	5
991234	Soil	0.9	11.8	7.9	189	0.4	14.8	6.8	303	2.93	9.5	<0.5	0.6	15	0.6	0.4	0.1	63	0.17	0.061	5
991235	Soil	0.7	17.7	8.4	239	0.2	16.6	9.8	871	2.91	9.1	<0.5	0.4	22	0.8	0.4	0.1	61	0.35	0.093	6
991236	Soil	4.9	22.8	60.0	1186	1.0	18.6	16.2	3678	4.46	280.3	<0.5	0.6	17	7.3	1.3	0.2	75	0.40	0.073	6
991237	Soil	1.5	11.8	13.7	211	0.5	15.9	9.2	576	3.53	29.8	<0.5	0.6	15	0.8	0.5	0.1	78	0.28	0.023	5
991238	Soil	0.6	17.7	9.0	82	0.2	16.0	6.3	201	2.15	8.2	<0.5	0.6	23	0.3	0.3	<0.1	55	0.24	0.022	7
991239	Soil	0.6	10.2	7.8	338	0.1	16.4	8.6	582	3.05	10.1	<0.5	0.6	18	1.2	0.3	0.1	64	0.24	0.034	5
991240	Soil	0.7	17.7	10.1	189	0.2	26.3	13.8	1087	3.76	16.0	<0.5	0.9	18	0.7	0.4	0.1	77	0.23	0.062	6
991241	Soil	0.9	15.2	8.5	80	0.1	18.2	7.3	195	3.06	7.9	1.1	0.5	15	<0.1	0.3	0.1	63	0.15	0.047	6
991242	Soil	0.6	16.2	11.4	46	<0.1	12.9	3.3	78	1.39	5.2	<0.5	0.8	20	<0.1	0.2	0.1	39	0.19	0.040	8
991243	Soil	0.8	27.3	7.5	91	0.1	21.6	10.0	1096	2.98	8.7	<0.5	0.2	34	0.2	0.3	0.1	65	0.29	0.045	10
991244	Soil	0.5	15.0	5.6	85	<0.1	19.2	6.7	355	2.64	7.9	<0.5	0.7	21	0.1	0.3	<0.1	56	0.20	0.025	7
991245	Soil	0.6	10.6	8.9	145	<0.1	13.7	8.6	1511	2.68	11.6	<0.5	0.5	15	0.3	0.3	0.1	61	0.17	0.046	5
991246	Soil	0.6	18.5	9.2	97	<0.1	19.5	9.0	838	3.03	13.9	<0.5	0.7	29	0.1	0.4	<0.1	62	0.36	0.043	9
991247	Soil	0.8	12.7	8.8	160	<0.1	16.9	8.4	641	2.97	16.2	<0.5	0.6	20	0.4	0.4	0.1	63	0.22	0.062	5
991248	Soil	0.6	13.9	15.9	105	<0.1	19.7	8.5	443	3.06	26.8	<0.5	0.7	26	0.2	0.4	<0.1	65	0.28	0.061	5
991249	Soil	0.7	18.9	9.2	105	<0.1	20.4	8.8	709	3.05	14.2	<0.5	0.7	24	0.2	0.4	0.1	62	0.30	0.083	7
991271	Soil	0.7	12.8	9.8	363	0.2	15.1	10.7	1150	2.67	6.1	<0.5	0.2	28	4.4	0.3	0.1	54	0.54	0.109	5
991272	Soil	7.2	47.2	9.0	916	0.9	28.9	11.8	>10000	3.14	15.4	<0.5	0.4	40	8.1	0.6	0.1	52	1.22	0.068	8
991273	Soil	1.4	69.2	12.4	645	1.0	41.2	13.5	2772	4.26	20.1	<0.5	0.9	39	3.9	0.4	0.2	69	0.78	0.080	27

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**Project:** ZNT  
**Report Date:** November 06, 2012

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# CERTIFICATE OF ANALYSIS

SMI12000482.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991222	Soil	13	0.26	359	0.019	3	0.78	0.005	0.11	<0.1	0.07	1.8	<0.1	0.08	4	<0.5	<0.2
991223	Soil	22	0.41	294	0.035	2	1.49	0.007	0.11	0.1	0.04	3.7	<0.1	<0.05	7	<0.5	<0.2
991224	Soil	23	0.45	255	0.022	2	1.55	0.006	0.10	0.1	0.04	3.6	0.1	<0.05	6	<0.5	<0.2
991225	Soil	20	0.36	221	0.029	2	1.14	0.006	0.08	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991226	Soil	19	0.35	259	0.029	2	1.27	0.007	0.05	0.1	0.04	2.4	<0.1	0.05	5	<0.5	<0.2
991228	Soil	23	0.44	180	0.046	2	1.23	0.009	0.06	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
991229	Soil	22	0.37	236	0.031	2	1.37	0.007	0.08	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991230	Soil	22	0.42	128	0.035	1	1.40	0.007	0.07	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
991231	Soil	21	0.39	252	0.037	2	1.38	0.009	0.07	<0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
991232	Soil	24	0.49	136	0.033	<1	1.52	0.008	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991233	Soil	20	0.32	410	0.030	2	1.26	0.010	0.15	<0.1	0.03	3.6	0.1	0.11	6	<0.5	<0.2
991234	Soil	22	0.35	127	0.032	1	1.29	0.007	0.05	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
991235	Soil	23	0.38	173	0.042	2	1.23	0.006	0.13	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
991236	Soil	26	0.36	351	0.028	3	1.89	0.007	0.11	0.1	0.04	5.5	0.4	0.07	6	<0.5	<0.2
991237	Soil	25	0.38	181	0.031	<1	1.44	0.008	0.04	<0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
991238	Soil	23	0.47	167	0.027	<1	1.74	0.012	0.03	<0.1	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
991239	Soil	23	0.34	166	0.044	1	1.42	0.008	0.05	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991240	Soil	30	0.40	210	0.031	1	2.77	0.008	0.09	<0.1	0.04	4.5	<0.1	<0.05	7	<0.5	<0.2
991241	Soil	30	0.35	126	0.012	<1	2.20	0.010	0.04	<0.1	0.08	4.5	0.1	<0.05	6	<0.5	<0.2
991242	Soil	23	0.23	237	0.006	<1	2.43	0.010	0.06	<0.1	0.04	5.7	0.2	0.07	8	<0.5	<0.2
991243	Soil	29	0.45	214	0.018	<1	2.00	0.009	0.07	<0.1	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
991244	Soil	23	0.48	157	0.040	1	1.44	0.008	0.05	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991245	Soil	19	0.23	215	0.035	1	1.34	0.007	0.05	<0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
991246	Soil	26	0.49	194	0.036	1	1.61	0.008	0.08	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
991247	Soil	23	0.38	215	0.044	1	1.33	0.008	0.05	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991248	Soil	23	0.44	152	0.046	1	1.46	0.008	0.07	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
991249	Soil	25	0.46	202	0.040	1	1.67	0.009	0.09	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
991271	Soil	21	0.34	297	0.029	2	1.17	0.007	0.07	<0.1	0.04	2.5	<0.1	0.07	5	<0.5	<0.2
991272	Soil	25	0.41	1100	0.014	3	1.60	0.007	0.12	<0.1	0.10	5.5	0.1	0.10	5	<0.5	<0.2
991273	Soil	37	0.68	496	0.014	<1	2.63	0.011	0.12	<0.1	0.07	11.2	<0.1	0.05	7	<0.5	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
991274	Soil	0.7	19.4	12.1	900	0.2	20.4	12.7	2060	3.04	5.2	<0.5	0.5	26	15.0	0.4	0.2	56	0.39	0.140	6
991275	Soil	0.9	18.6	12.8	563	0.3	17.3	11.2	1473	3.13	7.2	<0.5	0.3	19	8.1	0.4	0.2	67	0.37	0.057	5
991276	Soil	1.0	22.3	12.8	1128	0.4	18.7	11.7	2615	3.11	9.3	<0.5	0.5	25	12.9	0.3	0.2	61	0.75	0.066	6
991277	Soil	0.8	29.0	17.2	568	0.4	18.9	14.9	2748	3.63	20.2	<0.5	0.6	17	4.6	0.4	0.2	82	0.53	0.040	6
991278	Soil	0.7	17.0	11.0	356	0.3	16.0	12.0	2096	3.43	10.2	<0.5	0.3	19	1.8	0.3	0.2	74	0.64	0.113	6
991279	Soil	0.6	12.0	9.8	218	0.1	11.3	9.1	2031	3.01	10.3	<0.5	0.4	14	1.9	0.3	0.2	76	0.34	0.029	5
991280	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991281	Soil	0.8	19.9	9.0	399	0.4	16.9	15.7	2812	4.08	70.5	0.9	0.4	23	1.7	0.8	0.1	76	0.75	0.132	6
991282	Soil	0.7	5.3	7.4	104	0.1	7.6	6.4	380	2.48	11.0	2.0	0.4	12	0.6	0.3	0.1	58	0.20	0.027	4
991283	Soil	0.4	7.6	7.1	115	<0.1	9.8	7.5	330	2.35	5.1	1.1	0.5	13	0.4	0.3	0.1	48	0.13	0.118	4
991284	Soil	0.6	9.8	6.7	206	0.1	11.1	6.1	711	2.75	9.9	1.9	0.4	13	0.4	0.3	0.2	55	0.14	0.078	5
991285	Soil	0.5	10.1	5.6	75	<0.1	13.0	6.9	357	2.30	7.8	1.8	0.6	15	<0.1	0.3	0.1	50	0.10	0.026	5
991286	Soil	0.8	11.2	11.6	261	0.2	14.3	7.2	912	3.70	32.9	1.4	0.8	10	0.4	0.4	0.2	70	0.10	0.158	5
991287	Soil	1.1	17.5	8.4	142	0.4	16.2	8.2	511	2.84	15.8	1.2	0.7	20	0.2	0.4	0.1	58	0.17	0.045	6
991288	Soil	0.7	14.2	9.5	171	<0.1	17.3	9.2	655	3.25	20.2	1.0	0.5	18	0.3	0.4	0.1	64	0.19	0.060	4
991289	Soil	1.1	90.5	7.6	290	0.8	53.7	14.1	2851	4.24	27.3	1.6	1.1	42	0.8	0.4	0.2	67	0.66	0.194	15
991290	Soil	0.5	14.8	20.0	366	<0.1	14.7	11.1	3460	2.76	6.4	1.1	0.3	24	1.4	0.3	0.1	51	0.27	0.104	5
991291	Soil	0.8	20.8	9.3	101	<0.1	22.5	9.8	426	3.52	20.7	1.8	0.7	19	0.1	0.5	0.1	66	0.17	0.045	5
991292	Soil	0.6	9.4	7.9	221	0.2	10.4	7.7	1391	2.42	7.7	0.6	0.2	36	1.1	0.3	0.2	51	0.41	0.063	5
991293	Soil	0.5	12.8	6.9	97	<0.1	17.4	8.4	690	2.75	9.0	1.0	0.5	26	0.3	0.4	0.1	57	0.27	0.044	5
991294	Soil	1.0	50.0	10.4	125	0.3	31.3	9.6	1597	3.41	13.8	2.2	0.9	39	0.2	0.4	0.1	59	0.33	0.117	19
991295	Soil	0.9	31.0	8.3	117	0.2	21.6	8.4	1074	2.56	10.6	0.7	0.3	36	0.8	0.3	0.1	49	0.39	0.066	11
991296	Soil	0.5	12.3	12.5	252	0.1	13.6	12.1	2249	3.01	14.1	0.7	0.2	19	0.8	0.3	0.1	55	0.30	0.182	5
991297	Soil	0.6	13.1	8.6	83	<0.1	15.5	8.7	703	2.64	15.4	0.6	0.5	17	0.1	0.3	0.1	53	0.19	0.029	5
991298	Soil	0.7	11.1	7.2	77	<0.1	12.6	6.5	329	2.58	13.6	1.4	0.4	22	0.2	0.3	<0.1	56	0.31	0.021	5
991299	Soil	0.8	31.7	9.0	93	0.2	28.2	10.4	1251	2.61	37.0	3.6	0.1	52	0.3	0.3	0.1	47	0.64	0.095	13
991300	Soil	0.6	12.0	7.3	98	<0.1	15.4	7.8	1092	2.57	14.4	1.9	0.2	31	0.3	0.4	<0.1	53	0.31	0.035	5
991301	Soil	0.5	13.2	5.6	73	<0.1	16.9	6.5	451	2.43	9.8	17.4	0.4	25	0.2	0.3	<0.1	50	0.23	0.043	7
991302	Soil	0.5	8.4	7.2	104	<0.1	13.1	8.0	1191	2.26	5.8	11.1	0.3	37	0.5	0.3	0.1	48	0.50	0.061	5
991303	Soil	0.7	13.8	10.1	101	<0.1	16.8	9.7	792	3.05	38.6	0.9	0.4	24	0.2	0.4	0.1	61	0.26	0.089	5

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



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# CERTIFICATE OF ANALYSIS

SMI12000482.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991274	Soil	24	0.44	360	0.035	2	1.49	0.007	0.11	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
991275	Soil	24	0.40	298	0.029	2	1.46	0.007	0.09	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
991276	Soil	22	0.41	399	0.039	3	1.38	0.007	0.11	<0.1	0.04	3.8	<0.1	0.07	5	<0.5	<0.2
991277	Soil	22	0.40	457	0.039	2	1.43	0.006	0.09	0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2
991278	Soil	22	0.35	481	0.032	2	1.64	0.008	0.11	0.1	0.04	4.8	<0.1	0.05	6	<0.5	<0.2
991279	Soil	18	0.27	270	0.033	1	1.15	0.007	0.04	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
991280	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991281	Soil	18	0.33	305	0.022	3	1.34	0.006	0.09	0.3	0.05	7.0	<0.1	<0.05	5	<0.5	<0.2
991282	Soil	14	0.20	119	0.033	2	0.67	0.006	0.05	0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
991283	Soil	16	0.25	150	0.023	<1	1.11	0.006	0.04	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
991284	Soil	17	0.26	152	0.025	1	1.19	0.006	0.04	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
991285	Soil	18	0.38	120	0.020	<1	1.43	0.006	0.02	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991286	Soil	22	0.28	183	0.016	2	2.07	0.006	0.06	0.1	0.05	4.1	0.1	<0.05	8	<0.5	<0.2
991287	Soil	21	0.39	180	0.014	1	1.70	0.008	0.05	<0.1	0.04	4.1	<0.1	<0.05	6	<0.5	<0.2
991288	Soil	23	0.39	161	0.024	1	1.64	0.007	0.07	0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
991289	Soil	46	0.66	478	0.006	1	4.18	0.010	0.20	0.1	0.10	14.2	0.2	<0.05	10	<0.5	<0.2
991290	Soil	18	0.26	464	0.031	2	1.14	0.005	0.11	0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
991291	Soil	25	0.52	122	0.027	1	2.02	0.011	0.15	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
991292	Soil	16	0.24	250	0.026	2	1.01	0.006	0.07	0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
991293	Soil	21	0.42	177	0.027	1	1.33	0.008	0.06	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991294	Soil	34	0.56	415	0.012	1	3.21	0.010	0.12	0.1	0.11	11.3	0.1	<0.05	8	<0.5	<0.2
991295	Soil	21	0.39	253	0.013	1	1.85	0.007	0.07	0.1	0.05	4.9	<0.1	<0.05	5	<0.5	<0.2
991296	Soil	22	0.22	361	0.027	2	1.67	0.008	0.09	<0.1	0.05	2.8	<0.1	<0.05	7	<0.5	<0.2
991297	Soil	19	0.34	167	0.024	<1	1.37	0.008	0.05	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
991298	Soil	17	0.35	173	0.032	<1	1.16	0.007	0.04	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
991299	Soil	22	0.38	365	0.011	2	1.87	0.009	0.09	0.1	0.05	2.9	0.2	<0.05	6	<0.5	<0.2
991300	Soil	18	0.35	150	0.028	<1	1.23	0.009	0.04	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991301	Soil	20	0.40	157	0.030	1	1.42	0.007	0.04	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
991302	Soil	17	0.27	202	0.042	2	0.97	0.007	0.06	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
991303	Soil	22	0.35	284	0.023	1	1.61	0.007	0.05	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
991304	Soil	0.7	11.7	7.0	69	<0.1	16.6	8.7	468	2.71	28.3	1.7	0.3	31	0.3	0.4	<0.1	54	0.50	0.037	4
991305	Soil	0.6	13.9	9.3	109	<0.1	16.0	8.4	760	2.72	14.1	1.7	0.4	29	0.2	0.4	<0.1	53	0.40	0.086	5
991306	Soil	1.0	102.5	13.0	149	0.5	47.8	11.7	1408	3.75	41.1	1.9	1.1	45	0.3	0.3	0.1	62	0.69	0.095	27
991307	Soil	0.5	13.7	10.9	229	<0.1	18.5	10.7	1440	2.90	16.2	1.9	0.3	29	0.6	0.4	0.1	59	0.34	0.076	5
991308	Soil	0.5	11.0	8.8	90	<0.1	12.6	7.8	350	2.66	11.4	<0.5	0.4	19	0.3	0.3	0.1	57	0.28	0.023	5
991309	Soil	0.5	14.0	12.9	191	<0.1	18.5	11.6	831	3.08	20.5	1.9	0.3	25	0.4	0.4	0.1	60	0.31	0.062	5
991310	Soil	1.0	19.6	8.0	167	<0.1	17.7	9.8	796	2.95	14.8	<0.5	0.6	19	0.4	0.4	<0.1	59	0.28	0.021	7
991311	Soil	0.5	14.3	8.5	233	<0.1	15.7	9.5	951	2.98	11.1	0.9	0.5	21	0.4	0.4	0.1	58	0.32	0.029	5
991312	Soil	0.8	59.8	12.4	239	0.4	35.1	13.7	2535	3.91	15.2	1.0	0.7	37	0.4	0.4	0.2	63	0.46	0.082	16
991313	Soil	0.6	23.2	7.6	161	0.3	24.3	9.3	1367	3.18	8.9	<0.5	0.6	31	0.3	0.3	0.1	58	0.36	0.090	6
991314	Soil	0.6	12.1	8.1	108	<0.1	16.6	9.7	397	2.83	8.4	<0.5	0.7	17	0.1	0.4	<0.1	57	0.16	0.055	5
991315	Soil	0.7	15.5	10.1	171	<0.1	20.0	11.2	760	3.27	11.3	0.7	0.5	23	0.2	0.4	0.1	61	0.22	0.047	5
991316	Soil	0.5	12.4	8.8	119	<0.1	15.0	8.4	484	2.67	6.3	2.6	0.5	18	<0.1	0.3	<0.1	54	0.17	0.023	6
991317	Soil	0.7	16.5	9.5	88	<0.1	18.2	9.7	485	2.97	11.4	0.6	0.7	16	<0.1	0.4	0.1	65	0.18	0.039	5
991318	Soil	0.7	15.2	8.7	138	<0.1	19.1	9.7	818	2.88	9.0	<0.5	0.4	18	0.1	0.3	0.1	62	0.20	0.041	6
991319	Soil	0.7	27.7	10.8	111	0.2	26.9	10.0	750	3.15	7.8	<0.5	0.7	27	0.3	0.4	0.1	65	0.50	0.044	12
991320	Soil	0.8	11.9	10.7	192	0.1	12.8	10.5	1444	2.99	9.6	<0.5	0.2	20	0.7	0.3	0.2	60	0.36	0.057	4
991321	Soil	0.4	12.0	9.3	159	0.1	14.8	10.5	968	3.01	16.8	<0.5	0.1	16	0.3	0.3	0.1	69	0.37	0.108	4
991322	Soil	0.6	7.7	8.2	139	<0.1	13.7	8.5	918	2.93	11.0	<0.5	0.5	15	0.5	0.3	0.1	66	0.30	0.025	4
991323	Soil	0.8	9.8	8.7	231	0.2	14.4	11.6	1592	2.59	6.9	<0.5	0.3	14	0.9	0.3	0.1	57	0.24	0.032	4
991324	Soil	0.5	14.7	8.8	193	<0.1	18.6	9.6	744	2.94	8.9	<0.5	0.3	17	0.4	0.4	0.1	65	0.37	0.056	5
991325	Soil	0.7	16.9	11.6	425	0.2	17.9	14.4	1791	3.61	21.8	0.5	0.3	15	2.3	0.4	0.2	75	0.42	0.049	4
991326	Soil	0.6	12.4	8.6	236	<0.1	18.8	10.3	811	2.92	9.9	<0.5	0.5	15	0.9	0.4	0.1	64	0.34	0.026	4
991327	Soil	0.6	21.6	11.0	449	0.1	19.9	12.3	1918	2.99	6.5	<0.5	0.2	21	3.0	0.3	0.2	62	0.43	0.055	5
991328	Soil	0.7	12.0	11.4	378	0.2	16.7	11.3	1328	3.03	11.0	<0.5	0.4	16	2.4	0.3	0.1	66	0.44	0.056	4
991329	Soil	0.7	65.5	25.4	1352	5.7	29.4	15.5	1836	4.09	13.0	1.9	0.8	27	11.5	0.5	0.2	77	1.57	0.116	9
991330	Soil	0.6	15.6	12.6	262	0.3	14.4	11.8	1887	2.96	16.8	<0.5	0.4	15	2.2	0.3	0.2	61	0.45	0.042	4
991331	Soil	0.6	21.0	11.8	388	0.5	16.8	10.9	1523	2.66	29.2	<0.5	0.3	21	2.9	0.3	0.1	61	0.67	0.058	4
991332	Soil	0.8	16.8	10.5	423	0.3	19.1	11.5	1359	3.17	8.2	<0.5	0.3	16	1.3	0.2	0.2	65	0.50	0.064	7
991333	Soil	1.5	51.3	12.3	691	0.8	28.6	11.6	1237	2.96	9.6	<0.5	0.7	36	4.9	0.4	0.1	84	1.16	0.075	14

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Project: ZNT  
 Report Date: November 06, 2012

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991304	Soil	19	0.37	163	0.037	<1	1.18	0.007	0.07	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
991305	Soil	19	0.38	175	0.035	1	1.18	0.007	0.07	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
991306	Soil	39	0.73	531	0.004	<1	4.23	0.011	0.13	<0.1	0.09	13.1	0.2	<0.05	9	<0.5	<0.2
991307	Soil	21	0.39	308	0.027	1	1.61	0.007	0.07	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991308	Soil	17	0.32	126	0.033	1	1.10	0.008	0.05	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
991309	Soil	22	0.39	197	0.024	<1	1.50	0.007	0.06	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
991310	Soil	21	0.43	154	0.033	1	1.35	0.010	0.06	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
991311	Soil	21	0.37	141	0.031	<1	1.26	0.007	0.06	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
991312	Soil	34	0.61	404	0.010	<1	3.32	0.009	0.12	<0.1	0.04	8.6	0.1	<0.05	8	<0.5	<0.2
991313	Soil	29	0.45	270	0.009	<1	2.59	0.010	0.08	<0.1	0.06	5.0	0.1	<0.05	7	<0.5	<0.2
991314	Soil	20	0.35	118	0.031	<1	1.44	0.007	0.04	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991315	Soil	22	0.45	170	0.029	<1	1.68	0.009	0.06	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991316	Soil	19	0.36	214	0.021	<1	1.47	0.008	0.03	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991317	Soil	22	0.40	131	0.021	1	1.47	0.005	0.04	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
991318	Soil	22	0.40	190	0.023	1	1.39	0.006	0.05	0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
991319	Soil	28	0.55	238	0.022	2	1.78	0.008	0.07	0.2	0.04	6.5	<0.1	0.05	5	<0.5	<0.2
991320	Soil	19	0.29	269	0.027	2	0.98	0.006	0.10	0.2	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
991321	Soil	21	0.33	264	0.012	1	1.56	0.006	0.09	0.1	0.05	2.6	<0.1	0.05	6	<0.5	<0.2
991322	Soil	19	0.31	211	0.033	1	1.02	0.005	0.07	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
991323	Soil	19	0.31	170	0.028	2	1.03	0.005	0.06	0.1	0.03	2.2	<0.1	0.05	5	<0.5	<0.2
991324	Soil	23	0.45	211	0.021	1	1.46	0.005	0.07	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991325	Soil	24	0.38	344	0.029	2	1.35	0.005	0.09	0.2	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
991326	Soil	22	0.47	151	0.045	2	1.17	0.005	0.08	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
991327	Soil	24	0.40	419	0.026	2	1.36	0.006	0.10	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
991328	Soil	22	0.39	239	0.030	2	1.30	0.005	0.08	0.1	0.02	2.7	<0.1	0.06	5	<0.5	<0.2
991329	Soil	32	0.55	368	0.013	3	2.43	0.011	0.13	0.2	0.17	9.5	0.2	0.17	7	0.9	<0.2
991330	Soil	20	0.33	292	0.031	2	0.99	0.005	0.07	<0.1	0.02	3.0	<0.1	0.07	4	<0.5	<0.2
991331	Soil	19	0.35	317	0.026	3	1.17	0.005	0.08	0.1	0.03	2.5	<0.1	0.07	5	<0.5	<0.2
991332	Soil	25	0.35	254	0.026	2	1.43	0.006	0.13	<0.1	0.03	3.3	<0.1	0.05	5	<0.5	<0.2
991333	Soil	30	0.49	297	0.021	3	1.72	0.007	0.14	0.2	0.07	7.0	<0.1	0.17	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 06, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
991334	Soil	3.4	52.1	21.9	1242	1.5	33.1	13.5	2362	3.23	12.2	<0.5	0.7	33	6.1	0.7	0.2	65	1.19	0.064	12
991335	Soil	1.9	16.0	16.6	672	0.4	13.7	9.6	681	3.38	15.8	0.6	0.2	20	2.4	0.4	0.2	66	0.69	0.054	4
991336	Soil	1.4	22.4	20.9	1136	0.6	14.1	12.5	2201	3.51	10.8	<0.5	0.4	18	8.0	0.3	0.2	70	0.55	0.045	5
991337	Soil	0.8	8.5	10.7	364	0.2	12.7	6.8	367	2.81	7.2	<0.5	0.3	14	5.4	0.3	0.1	67	0.21	0.034	5
991338	Soil	0.7	7.5	9.7	489	0.1	12.3	7.7	485	2.80	7.4	<0.5	0.5	11	4.9	0.3	0.2	61	0.19	0.022	4
991339	Soil	1.1	10.2	9.5	660	0.3	16.6	9.4	604	3.22	10.9	<0.5	0.5	13	4.2	0.4	0.1	67	0.19	0.026	4
991340	Soil	0.7	12.2	7.9	449	0.2	18.0	9.0	830	2.96	8.8	<0.5	0.5	14	3.2	0.4	0.1	56	0.16	0.030	5
991341	Soil	0.7	11.7	9.6	393	0.2	17.5	9.1	698	3.01	11.7	1.1	0.5	16	2.8	0.4	<0.1	59	0.23	0.024	5
991342	Soil	0.8	7.9	6.2	480	0.2	11.3	6.8	737	2.34	3.3	<0.5	0.5	11	5.1	0.3	0.1	47	0.19	0.039	4
991343	Soil	0.5	7.4	5.6	458	0.6	9.9	5.8	301	2.09	3.5	<0.5	0.4	11	3.3	0.2	0.1	50	0.23	0.027	5
991344	Soil	1.4	8.1	8.1	403	<0.1	13.1	7.5	409	2.84	6.6	<0.5	0.5	10	2.0	0.4	0.1	59	0.15	0.021	4
991345	Soil	0.9	15.8	10.1	198	0.1	20.9	10.8	498	3.34	10.7	0.5	0.4	14	1.8	0.4	0.1	65	0.18	0.033	5
991346	Soil	0.8	32.3	10.7	235	0.4	25.7	12.4	851	3.25	8.8	<0.5	1.2	38	2.7	0.4	0.2	62	1.19	0.046	8
991347 NS	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.
991348	Soil	0.5	23.1	7.6	239	0.2	17.4	9.7	723	2.63	4.8	<0.5	0.5	23	2.5	0.2	0.1	58	0.56	0.025	8
991349	Soil	0.8	44.0	8.8	910	0.2	23.2	10.7	897	2.96	7.2	0.7	0.5	23	11.1	0.3	0.1	60	0.46	0.050	13
991350	Soil	0.5	8.9	7.7	117	<0.1	15.8	8.4	1080	2.44	12.7	<0.5	0.4	20	0.2	0.3	<0.1	58	0.25	0.048	5
991351	Soil	0.7	9.9	8.0	89	<0.1	17.6	7.9	415	2.92	9.9	<0.5	0.7	15	0.1	0.3	0.1	65	0.13	0.050	5
991352	Soil	0.8	12.2	8.6	114	<0.1	22.7	8.5	383	3.33	22.8	<0.5	0.6	13	<0.1	0.3	0.1	66	0.12	0.092	5
991353	Soil	0.8	8.6	9.9	116	<0.1	14.7	8.7	944	2.71	34.2	<0.5	0.3	13	0.1	0.2	0.1	57	0.14	0.113	5
991354	Soil	0.6	12.7	7.8	70	<0.1	14.8	7.3	500	2.53	15.6	3.5	0.2	26	0.1	0.3	0.1	56	0.23	0.047	5
991355	Soil	0.9	30.1	10.9	72	<0.1	25.2	12.2	968	3.00	58.2	0.8	0.3	26	<0.1	0.4	0.1	61	0.30	0.050	13
991356	Soil	0.7	15.1	10.4	109	<0.1	24.8	10.5	771	3.21	59.7	1.9	0.5	19	0.1	0.4	0.1	67	0.34	0.092	5
991357	Soil	0.6	14.6	10.1	134	<0.1	20.0	8.8	517	3.14	15.8	<0.5	0.7	18	0.1	0.3	0.2	66	0.29	0.136	5
991358	Soil	0.8	9.4	9.2	110	<0.1	14.0	6.3	259	2.68	12.7	1.9	0.6	14	0.2	0.4	<0.1	59	0.17	0.065	5
991359	Soil	0.8	18.8	12.6	96	<0.1	18.3	8.1	447	3.19	16.7	2.6	0.6	21	0.2	0.4	0.1	66	0.20	0.071	5
991360	Soil	0.8	17.2	10.9	172	0.2	19.8	13.1	1189	3.24	35.0	2.5	0.7	20	0.2	0.3	0.1	71	0.16	0.101	6
991361	Soil	0.6	12.3	9.2	106	<0.1	17.5	8.1	406	3.15	12.0	0.6	0.6	13	0.4	0.3	0.1	66	0.12	0.073	5
991362	Soil	0.5	11.9	9.1	107	0.1	18.7	9.8	972	2.98	9.3	1.5	0.3	23	0.2	0.3	0.1	62	0.20	0.062	5
991363	Soil	0.5	14.4	8.7	87	<0.1	18.5	9.2	543	3.06	11.9	1.5	0.6	22	<0.1	0.5	0.1	67	0.24	0.023	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991334	Soil	31	0.56	409	0.013	2	1.98	0.010	0.08	0.1	0.06	9.1	0.1	0.13	5	<0.5	<0.2
991335	Soil	22	0.35	215	0.028	2	1.38	0.007	0.04	0.2	0.04	3.2	<0.1	0.11	5	<0.5	<0.2
991336	Soil	23	0.34	263	0.042	2	1.38	0.006	0.08	0.2	0.03	3.4	<0.1	0.06	6	<0.5	<0.2
991337	Soil	19	0.33	128	0.024	1	1.14	0.005	0.08	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
991338	Soil	18	0.32	122	0.044	1	0.94	0.005	0.06	0.2	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
991339	Soil	22	0.43	144	0.042	1	1.18	0.005	0.04	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991340	Soil	21	0.40	177	0.033	<1	1.14	0.005	0.05	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
991341	Soil	21	0.42	228	0.038	1	1.18	0.005	0.06	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991342	Soil	16	0.29	114	0.045	1	0.81	0.005	0.06	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
991343	Soil	15	0.28	108	0.034	1	0.82	0.005	0.07	0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
991344	Soil	19	0.35	92	0.025	<1	1.16	0.006	0.03	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
991345	Soil	23	0.46	170	0.020	<1	1.53	0.006	0.05	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991346	Soil	27	0.48	282	0.012	2	1.70	0.011	0.09	0.1	0.05	6.2	<0.1	0.11	5	<0.5	<0.2
991347 NS	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.
991348	Soil	20	0.36	195	0.032	1	1.08	0.005	0.07	<0.1	0.02	3.2	<0.1	0.05	4	<0.5	<0.2
991349	Soil	24	0.49	189	0.020	1	1.47	0.006	0.06	0.1	0.05	5.2	<0.1	<0.05	5	<0.5	<0.2
991350	Soil	19	0.31	201	0.033	<1	1.10	0.006	0.04	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
991351	Soil	22	0.36	133	0.032	<1	1.25	0.006	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991352	Soil	23	0.36	152	0.025	1	2.05	0.005	0.05	0.1	0.03	3.2	0.1	<0.05	6	<0.5	<0.2
991353	Soil	20	0.24	187	0.018	<1	1.62	0.006	0.05	0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
991354	Soil	19	0.38	122	0.024	2	1.09	0.006	0.04	0.1	0.04	2.0	<0.1	0.05	4	<0.5	<0.2
991355	Soil	25	0.40	308	0.016	1	1.77	0.007	0.07	0.1	0.06	3.5	0.1	0.06	6	<0.5	<0.2
991356	Soil	25	0.47	209	0.027	2	1.82	0.006	0.05	0.1	0.03	3.2	<0.1	0.14	5	<0.5	<0.2
991357	Soil	25	0.44	200	0.026	1	1.93	0.007	0.05	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
991358	Soil	19	0.35	114	0.034	1	1.22	0.006	0.04	<0.1	0.03	2.5	<0.1	0.13	4	<0.5	<0.2
991359	Soil	24	0.46	118	0.028	1	1.38	0.006	0.06	<0.1	0.02	3.7	<0.1	0.10	5	<0.5	<0.2
991360	Soil	27	0.31	174	0.024	1	2.37	0.008	0.05	0.1	0.07	3.5	<0.1	0.27	6	<0.5	<0.2
991361	Soil	23	0.39	121	0.024	<1	1.44	0.006	0.06	<0.1	0.03	3.0	<0.1	0.20	5	<0.5	<0.2
991362	Soil	25	0.46	172	0.028	<1	1.45	0.007	0.08	0.1	0.03	2.9	<0.1	0.18	5	<0.5	<0.2
991363	Soil	24	0.46	160	0.033	<1	1.38	0.007	0.04	<0.1	0.04	3.4	<0.1	0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991364	Soil	0.8	28.7	10.6	84	0.2	23.8	9.8	637	3.05	11.4	<0.5	0.6	30	0.2	0.3	<0.1	64	0.36	0.037	10
991365	Soil	0.7	16.9	9.7	129	0.1	19.3	10.5	540	3.23	14.8	1.1	0.4	22	0.4	0.4	0.1	68	0.30	0.038	6
991366	Soil	0.9	13.6	9.5	119	<0.1	14.7	8.0	350	3.05	12.6	1.2	0.7	16	0.2	0.3	0.1	68	0.20	0.038	4
991367	Soil	0.9	13.9	8.5	93	<0.1	15.6	9.0	385	3.03	16.1	0.9	0.5	23	0.1	0.4	<0.1	66	0.28	0.028	5
991368	Soil	0.7	7.8	9.1	192	<0.1	10.2	7.2	681	2.74	6.8	<0.5	0.3	16	0.6	0.3	0.1	64	0.28	0.044	4
991369	Soil	0.7	11.5	9.5	86	0.3	8.4	5.7	301	2.34	6.9	<0.5	0.3	19	0.6	0.2	<0.1	61	0.44	0.023	4
991370	Soil	0.9	20.6	10.3	97	0.3	19.5	10.6	621	3.04	14.1	<0.5	0.5	29	0.6	0.4	<0.1	64	0.63	0.028	8
991371	Soil	0.8	13.1	8.0	216	0.3	17.3	8.6	886	2.73	8.5	<0.5	0.5	17	0.4	0.3	<0.1	56	0.28	0.029	6
991372	Soil	0.9	22.7	14.7	498	0.7	18.3	15.1	3898	3.27	27.5	<0.5	0.2	27	3.2	0.4	0.2	70	0.89	0.063	5
991373	Soil	0.6	9.1	10.4	281	0.2	14.4	9.1	1122	2.85	10.3	0.9	0.2	15	1.3	0.4	0.1	63	0.21	0.053	4
991374	Soil	0.9	17.4	10.0	129	0.2	20.4	8.3	365	3.36	16.3	0.6	0.5	17	0.2	0.4	<0.1	72	0.19	0.035	5
991375	Soil	1.1	15.2	16.4	518	0.3	17.1	12.7	1772	3.90	21.4	1.2	0.4	17	2.4	0.5	0.1	82	0.35	0.047	5
991376	Soil	1.1	15.0	17.9	688	0.5	20.0	13.7	2132	3.87	16.7	<0.5	0.6	12	4.0	0.5	0.2	80	0.33	0.039	5
991377	Soil	1.0	13.1	12.6	791	0.5	17.1	11.4	1697	3.24	8.9	<0.5	0.6	18	6.9	0.5	0.2	61	0.33	0.119	5
991378	Soil	1.0	34.7	25.2	1633	0.9	19.3	14.3	2641	3.25	8.8	0.7	0.4	31	22.7	0.4	0.1	58	0.76	0.194	6
991379	Soil	1.0	24.2	10.9	616	0.6	14.6	8.3	1799	2.74	9.6	0.5	0.2	27	3.7	0.3	0.1	51	1.14	0.056	4
991380	Soil	1.0	23.5	18.3	379	0.2	21.8	13.3	1848	3.46	14.8	1.3	0.8	22	2.3	0.5	<0.1	68	0.44	0.040	5
991381	Soil	1.0	9.6	20.0	616	0.3	16.1	11.7	986	3.51	13.5	<0.5	0.4	14	3.0	0.4	0.1	76	0.29	0.061	5
991382	Soil	1.8	12.5	18.9	694	0.8	15.7	10.5	1773	3.32	11.6	<0.5	0.4	18	7.3	0.4	0.2	68	0.36	0.044	4
991383	Soil	0.8	12.5	14.2	676	0.6	18.2	9.6	1109	3.09	12.0	<0.5	0.5	17	5.9	0.4	0.1	61	0.29	0.047	5
991385	Soil	1.2	11.6	16.8	736	1.2	17.6	9.6	677	3.28	14.2	<0.5	0.6	13	5.0	0.5	0.1	65	0.22	0.051	4
991386	Soil	0.9	8.6	13.5	488	0.6	12.1	6.9	676	3.15	10.8	<0.5	0.6	11	3.4	0.4	0.1	67	0.16	0.060	4
991387	Soil	1.6	7.8	13.5	429	0.8	9.9	6.8	627	2.90	8.5	<0.5	0.3	9	3.6	0.5	<0.1	65	0.16	0.033	4
991388	Soil	0.7	8.2	8.9	366	0.4	11.0	7.4	488	2.76	6.7	0.7	0.5	8	2.5	0.4	<0.1	62	0.13	0.051	4
991389	Soil	0.9	11.5	17.9	695	1.1	17.8	12.9	1113	3.84	13.4	<0.5	0.6	19	4.7	0.4	0.1	79	0.40	0.095	4
991390	Soil	0.7	14.4	10.3	478	0.3	19.5	10.5	550	3.37	11.5	<0.5	0.5	13	2.3	0.4	<0.1	66	0.19	0.038	4
991391	Soil	1.1	8.5	14.2	447	0.3	10.6	8.5	1010	3.60	12.0	2.9	0.2	14	4.4	0.5	0.2	68	0.18	0.081	4
991392	Soil	1.1	11.4	14.6	378	0.4	11.0	9.9	1267	3.43	13.7	<0.5	0.2	20	3.9	0.4	0.2	68	0.44	0.094	4
991395	Soil	0.7	19.5	10.9	127	<0.1	20.1	9.4	511	3.30	10.9	<0.5	0.6	17	0.7	0.6	<0.1	56	0.19	0.073	5
991396	Soil	0.7	13.1	7.7	139	<0.1	16.2	8.4	560	2.77	7.5	<0.5	0.3	15	1.1	0.4	<0.1	49	0.17	0.074	5

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 Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991364	Soil	26	0.53	207	0.034	1	1.53	0.008	0.06	<0.1	0.03	4.9	<0.1	0.18	5	<0.5	<0.2
991365	Soil	24	0.44	195	0.033	<1	1.40	0.006	0.06	<0.1	0.02	3.6	<0.1	0.09	5	<0.5	<0.2
991366	Soil	21	0.36	151	0.030	<1	1.33	0.006	0.04	0.1	0.03	3.2	<0.1	0.07	5	<0.5	<0.2
991367	Soil	22	0.44	236	0.031	<1	1.27	0.008	0.04	<0.1	0.02	3.2	<0.1	0.18	4	<0.5	<0.2
991368	Soil	19	0.25	224	0.041	1	0.86	0.006	0.07	<0.1	0.02	2.1	<0.1	0.26	4	<0.5	<0.2
991369	Soil	17	0.21	172	0.036	<1	0.82	0.007	0.06	0.1	0.03	2.2	<0.1	0.19	4	<0.5	<0.2
991370	Soil	25	0.46	210	0.028	1	1.34	0.010	0.05	<0.1	0.06	4.8	<0.1	0.13	4	<0.5	<0.2
991371	Soil	23	0.48	208	0.034	<1	1.32	0.008	0.06	<0.1	0.03	3.7	<0.1	0.33	5	<0.5	<0.2
991372	Soil	21	0.40	648	0.030	2	1.34	0.006	0.08	0.2	0.07	3.5	0.1	0.27	5	<0.5	<0.2
991373	Soil	20	0.35	236	0.029	1	1.24	0.006	0.05	0.1	0.02	2.4	<0.1	0.12	5	<0.5	<0.2
991374	Soil	26	0.50	138	0.029	<1	1.63	0.007	0.04	<0.1	0.04	3.7	<0.1	0.12	5	<0.5	<0.2
991375	Soil	23	0.46	318	0.039	2	1.53	0.006	0.07	0.2	0.03	3.4	<0.1	0.34	6	<0.5	<0.2
991376	Soil	26	0.46	379	0.033	1	1.82	0.007	0.06	0.1	0.03	4.2	0.1	0.35	6	<0.5	<0.2
991377	Soil	23	0.48	341	0.050	2	1.27	0.007	0.11	0.1	0.03	3.3	<0.1	0.20	5	<0.5	<0.2
991378	Soil	23	0.49	692	0.037	4	1.36	0.006	0.14	0.1	0.02	3.9	<0.1	0.20	5	<0.5	<0.2
991379	Soil	20	0.41	333	0.029	3	1.20	0.007	0.05	0.1	0.05	2.8	<0.1	0.26	4	<0.5	<0.2
991380	Soil	27	0.55	319	0.042	<1	1.48	0.008	0.07	<0.1	0.03	4.5	<0.1	0.18	5	<0.5	<0.2
991381	Soil	26	0.40	227	0.026	<1	1.60	0.008	0.07	0.1	0.01	3.2	<0.1	0.11	7	<0.5	<0.2
991382	Soil	23	0.43	269	0.035	1	1.32	0.008	0.07	0.1	0.04	3.2	<0.1	0.25	6	<0.5	<0.2
991383	Soil	23	0.46	219	0.038	1	1.36	0.006	0.10	<0.1	0.03	3.1	<0.1	0.21	4	<0.5	<0.2
991385	Soil	23	0.43	253	0.031	<1	1.60	0.006	0.05	0.1	0.03	3.3	0.1	0.24	5	<0.5	<0.2
991386	Soil	21	0.37	183	0.029	1	1.24	0.006	0.06	0.1	0.03	2.8	<0.1	0.12	5	<0.5	<0.2
991387	Soil	18	0.30	135	0.032	<1	0.92	0.006	0.05	0.1	<0.01	2.4	<0.1	0.19	5	<0.5	<0.2
991388	Soil	18	0.34	101	0.034	<1	1.06	0.006	0.04	<0.1	<0.01	2.3	<0.1	0.37	5	<0.5	<0.2
991389	Soil	25	0.47	226	0.031	1	1.58	0.006	0.08	0.2	0.01	3.6	<0.1	0.24	6	<0.5	<0.2
991390	Soil	24	0.47	129	0.034	<1	1.36	0.006	0.04	0.2	0.02	3.2	<0.1	0.16	5	<0.5	<0.2
991391	Soil	18	0.32	179	0.017	3	1.18	0.005	0.04	0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
991392	Soil	18	0.33	224	0.019	4	1.14	0.004	0.12	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
991395	Soil	21	0.51	113	0.023	3	1.41	0.008	0.04	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991396	Soil	19	0.41	110	0.027	3	1.17	0.006	0.04	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

SMI12000482.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991397	Soil	0.7	15.8	9.6	193	0.3	14.9	8.5	564	2.79	8.1	<0.5	0.4	17	2.7	0.5	0.1	49	0.39	0.024	4
991398	Soil	1.1	11.9	8.9	313	0.2	12.9	8.3	1272	2.51	5.7	<0.5	0.3	24	8.4	0.3	0.1	46	0.49	0.143	5
991399	Soil	0.7	15.5	7.9	368	<0.1	18.1	8.3	791	2.72	8.3	<0.5	0.6	24	3.3	0.4	0.1	48	0.49	0.036	6
991400	Soil	0.6	12.7	8.2	264	0.1	13.6	8.3	788	2.57	6.6	19.3	0.1	20	4.0	0.3	<0.1	47	0.20	0.037	4
991401	Soil	0.8	10.2	7.7	195	0.2	13.8	7.4	402	2.64	8.5	<0.5	0.4	17	1.2	0.3	<0.1	50	0.43	0.031	4
991402	Soil	0.5	12.1	7.5	294	0.2	15.5	6.3	512	2.59	6.9	<0.5	0.2	14	2.7	0.3	<0.1	48	0.20	0.042	5
991403	Soil	0.7	11.5	11.7	219	0.1	12.5	8.0	723	2.67	8.2	<0.5	0.4	14	2.8	0.3	0.1	54	0.33	0.033	4
991404	Soil	1.0	10.3	9.0	200	0.2	13.3	6.2	297	3.23	11.4	2.9	0.4	14	0.7	0.4	<0.1	61	0.26	0.032	4
991405	Soil	1.0	15.8	22.0	311	0.3	16.4	10.2	1513	3.45	46.6	<0.5	0.3	13	2.6	0.4	<0.1	58	0.17	0.077	4
991406	Soil	1.0	15.3	13.4	220	<0.1	15.9	8.2	479	3.58	15.1	<0.5	0.5	14	0.6	0.4	<0.1	64	0.25	0.079	4
991407	Soil	0.8	16.8	11.4	194	0.1	12.3	6.7	663	3.11	9.7	<0.5	0.3	18	1.5	0.4	<0.1	60	0.28	0.039	4
991408	Soil	0.7	12.6	9.4	230	0.2	12.3	6.2	386	2.29	5.6	<0.5	0.4	21	0.6	0.2	<0.1	43	0.78	0.035	5
991409	Soil	1.8	8.6	12.1	171	0.1	7.2	4.6	248	2.75	6.7	<0.5	0.2	14	1.3	0.4	<0.1	69	0.49	0.032	4
991410	Soil	1.6	17.2	18.8	333	0.2	19.0	8.8	635	3.64	13.3	1.5	0.7	15	1.7	0.5	<0.1	61	0.30	0.032	5
991411	Soil	1.7	6.0	7.2	52	0.1	4.0	2.0	103	1.60	3.8	<0.5	0.2	12	1.2	0.3	<0.1	43	0.31	0.019	3
991412	Soil	0.9	13.8	10.8	136	0.1	13.3	6.1	343	2.75	9.3	<0.5	0.6	13	0.3	0.4	<0.1	55	0.12	0.032	6
991413	Soil	0.9	14.4	12.3	214	0.2	13.3	7.5	695	2.82	9.4	<0.5	0.4	24	1.1	0.4	<0.1	56	0.27	0.027	5
991414	Soil	2.5	111.6	42.4	525	1.0	47.4	15.8	1258	5.24	19.6	<0.5	1.7	55	2.8	0.6	0.2	84	1.00	0.092	24
991415	Soil	0.8	18.1	14.7	237	0.2	15.1	7.4	556	2.93	12.1	1.1	0.3	24	1.8	0.4	0.3	56	0.47	0.032	6
991416	Soil	0.6	9.3	14.5	216	0.2	12.2	6.2	362	2.56	7.2	1.2	0.3	18	1.1	0.4	0.1	51	0.24	0.057	5
991417	Soil	1.1	19.2	22.6	265	0.4	25.3	10.9	748	3.76	16.5	<0.5	0.6	19	0.7	0.5	<0.1	71	0.24	0.075	5
991418	Soil	0.8	10.5	12.7	188	0.2	13.4	7.5	412	2.51	7.5	<0.5	0.5	23	0.8	0.3	<0.1	52	0.32	0.028	6
991419	Soil	2.2	11.1	15.8	232	0.3	9.2	6.9	515	3.08	9.6	<0.5	0.3	13	0.9	0.4	0.1	64	0.22	0.027	4
991420	Soil	1.5	15.8	13.9	170	0.3	10.8	5.2	283	2.64	8.9	<0.5	0.4	17	1.0	0.2	<0.1	56	0.36	0.033	4
991421	Soil	0.7	8.2	9.1	161	0.2	10.2	5.6	441	2.47	5.9	<0.5	0.4	18	0.8	0.4	<0.1	49	0.29	0.060	4
991422	Soil	0.8	22.6	8.5	166	0.4	16.5	6.6	718	2.73	7.2	<0.5	0.5	21	0.8	0.3	<0.1	49	0.20	0.042	7
991423	Soil	1.2	16.8	14.8	147	0.2	12.6	6.4	314	3.41	10.2	<0.5	0.5	17	0.5	0.4	<0.1	63	0.26	0.025	4
991424	Soil	1.3	37.3	22.3	347	0.8	24.4	10.1	1798	3.64	10.2	<0.5	1.0	41	1.8	0.3	0.1	57	1.06	0.071	18
991425	Soil	1.1	20.8	24.2	316	0.3	15.2	13.1	1742	3.74	14.4	1.0	0.2	21	4.7	0.5	0.1	73	0.29	0.083	6
991426	Soil	1.1	11.6	14.0	327	0.2	14.8	8.5	674	3.35	13.0	<0.5	0.4	18	2.3	0.4	<0.1	69	0.30	0.037	4

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 Report Date: November 06, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991397	Soil	19	0.33	195	0.020	3	1.15	0.005	0.05	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
991398	Soil	16	0.23	216	0.018	3	1.11	0.005	0.06	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
991399	Soil	20	0.49	174	0.014	2	1.48	0.006	0.08	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
991400	Soil	17	0.33	138	0.012	3	1.13	0.004	0.05	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
991401	Soil	17	0.38	147	0.019	2	1.20	0.005	0.05	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
991402	Soil	18	0.38	143	0.013	3	1.30	0.004	0.06	0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
991403	Soil	16	0.33	192	0.015	2	1.29	0.006	0.03	0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
991404	Soil	17	0.39	110	0.016	2	1.27	0.004	0.05	0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
991405	Soil	19	0.37	197	0.013	2	1.66	0.005	0.05	0.2	0.01	3.2	0.1	<0.05	6	<0.5	<0.2
991406	Soil	18	0.38	121	0.011	1	1.58	0.005	0.04	<0.1	<0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
991407	Soil	18	0.32	216	0.018	2	1.07	0.004	0.06	<0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
991408	Soil	16	0.30	217	0.014	<1	1.27	0.007	0.03	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991409	Soil	13	0.20	109	0.033	3	0.83	0.007	0.03	0.2	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
991410	Soil	22	0.44	176	0.019	1	1.78	0.007	0.03	0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
991411	Soil	9	0.10	92	0.014	<1	0.63	0.005	0.03	0.2	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
991412	Soil	18	0.34	126	0.018	<1	1.38	0.006	0.03	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991413	Soil	20	0.35	204	0.026	2	1.18	0.005	0.04	0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
991414	Soil	46	0.87	578	0.007	1	4.23	0.012	0.13	0.2	0.03	15.1	0.2	<0.05	10	0.5	<0.2
991415	Soil	18	0.39	135	0.028	2	1.26	0.006	0.05	0.2	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
991416	Soil	17	0.33	158	0.026	1	1.09	0.006	0.04	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
991417	Soil	24	0.56	169	0.024	2	1.88	0.006	0.05	0.1	0.05	4.3	<0.1	<0.05	6	<0.5	<0.2
991418	Soil	17	0.35	194	0.020	2	1.44	0.006	0.04	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
991419	Soil	17	0.25	209	0.016	2	1.14	0.006	0.03	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
991420	Soil	16	0.27	240	0.010	<1	1.25	0.006	0.03	0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
991421	Soil	15	0.27	149	0.014	2	1.03	0.005	0.06	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
991422	Soil	19	0.41	226	0.009	<1	1.39	0.006	0.04	0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
991423	Soil	18	0.33	170	0.011	1	1.37	0.006	0.03	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
991424	Soil	28	0.49	375	0.004	<1	2.66	0.008	0.06	0.1	0.05	9.4	0.1	<0.05	7	0.6	<0.2
991425	Soil	21	0.41	213	0.017	1	1.51	0.006	0.06	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
991426	Soil	19	0.40	147	0.018	1	1.42	0.006	0.04	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: November 06, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991427	Soil	0.6	9.1	11.2	155	0.3	11.5	6.5	301	2.78	7.7	1.4	0.3	12	1.2	0.3	<0.1	58	0.14	0.045	4
991428	Soil	0.9	17.5	17.6	329	0.2	16.0	11.9	2772	3.28	12.4	<0.5	0.1	29	5.1	0.4	<0.1	61	0.58	0.074	5
991429	Soil	1.0	33.2	23.2	388	0.7	23.7	10.5	1258	3.57	13.8	1.3	0.4	31	3.3	0.4	0.1	57	0.84	0.082	8
991430	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.
991431	Soil	0.6	26.4	8.7	206	0.2	22.0	9.4	482	3.34	10.3	4.2	0.8	29	1.6	0.5	0.1	51	0.78	0.032	11
991432	Soil	0.8	15.7	9.2	288	0.1	19.1	11.0	780	3.34	8.9	0.7	0.4	24	2.2	0.5	0.1	53	0.32	0.048	5
991433	Soil	1.6	26.0	13.1	289	0.1	20.1	14.3	1160	4.39	12.6	2.6	1.0	27	3.4	0.5	0.2	83	0.46	0.047	6
991434	Soil	0.7	11.3	9.7	342	0.1	16.3	8.2	461	3.59	10.8	2.3	0.5	15	3.6	0.5	<0.1	66	0.19	0.072	4
991435	Soil	0.9	18.5	12.6	170	0.2	13.3	7.5	616	2.85	8.1	<0.5	0.4	22	2.3	0.5	0.1	52	0.25	0.045	6
991436	Soil	1.2	13.4	11.5	225	0.2	15.1	9.0	490	3.76	11.9	<0.5	0.6	18	1.7	0.5	<0.1	68	0.17	0.089	4
991437	Soil	1.2	8.9	11.6	315	0.3	9.2	6.8	475	3.16	8.6	2.1	0.6	18	4.7	0.4	0.2	64	0.22	0.050	5
991438	Soil	0.9	14.6	10.7	319	0.3	11.0	9.4	1802	2.66	7.8	0.7	0.4	26	8.2	0.4	<0.1	51	0.66	0.038	4
991439	Soil	1.2	14.2	13.0	263	0.3	16.1	8.3	555	3.27	13.4	1.2	0.6	17	1.1	0.4	<0.1	58	0.32	0.038	4
991440	Soil	0.4	9.7	9.6	198	0.2	12.5	6.9	526	2.91	7.9	3.6	0.5	13	1.3	0.4	<0.1	54	0.19	0.050	4
991441	Soil	1.7	15.7	15.6	290	0.8	10.3	6.7	384	3.24	13.6	0.9	0.6	13	1.1	0.6	<0.1	64	0.19	0.018	4
991500	Soil	0.6	13.2	8.5	539	0.2	17.2	7.4	466	2.91	7.9	0.6	0.5	17	1.6	0.4	<0.1	51	0.21	0.038	6
991501	Soil	0.8	29.6	10.7	505	0.3	21.1	9.4	782	3.23	9.0	<0.5	0.6	27	2.7	0.3	0.1	54	0.48	0.035	10
991502	Soil	0.7	51.0	13.4	545	1.4	27.0	8.3	929	3.62	11.4	1.8	0.8	32	6.1	0.4	0.2	58	1.17	0.055	13
991503	Soil	1.3	14.2	15.6	241	0.3	13.6	9.8	994	3.88	14.9	<0.5	0.4	22	2.4	0.5	0.1	65	0.41	0.072	4
991504	Soil	0.7	14.2	8.6	131	0.1	20.0	8.0	497	3.12	10.3	1.5	0.6	20	0.4	0.5	<0.1	56	0.28	0.032	5
991505	Soil	1.7	14.1	11.8	174	0.1	13.0	6.9	607	2.88	12.8	<0.5	0.2	18	0.4	0.3	0.1	54	0.30	0.040	9
991506	Soil	1.1	17.6	9.8	205	0.2	17.1	6.3	372	3.94	12.9	0.8	0.4	11	0.4	0.5	<0.1	67	0.12	0.095	4
991507	Soil	1.3	9.6	9.7	214	0.5	15.3	7.7	398	3.39	10.8	0.5	0.5	14	0.6	0.3	<0.1	61	0.24	0.056	4
991508	Soil	1.9	11.1	15.0	323	0.3	10.1	5.7	577	2.91	9.6	<0.5	0.1	15	3.2	0.3	0.1	58	0.21	0.050	4
991509	Soil	1.0	52.7	11.9	168	0.7	21.5	8.2	776	2.82	8.6	1.7	0.7	27	2.2	0.4	0.1	48	1.01	0.042	9
991510	Soil	1.8	17.7	32.4	419	0.6	15.8	10.1	2061	3.41	16.2	<0.5	0.4	13	3.8	0.6	<0.1	65	0.41	0.035	7
991511	Soil	0.4	10.1	12.5	285	0.3	9.5	6.6	686	2.92	6.1	14.8	0.4	19	1.4	0.4	0.1	55	0.31	0.053	5



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991427	Soil	17	0.28	108	0.016	<1	1.26	0.005	0.05	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
991428	Soil	20	0.37	283	0.016	1	1.31	0.005	0.07	<0.1	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
991429	Soil	25	0.48	304	0.010	1	2.15	0.008	0.10	<0.1	0.06	6.8	<0.1	<0.05	6	<0.5	<0.2
991430	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.
991431	Soil	22	0.44	204	0.026	2	1.42	0.009	0.07	<0.1	0.06	5.7	<0.1	<0.05	4	<0.5	<0.2
991432	Soil	21	0.40	161	0.023	1	1.37	0.006	0.12	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991433	Soil	22	0.45	257	0.024	2	1.84	0.006	0.09	0.1	0.05	7.4	<0.1	<0.05	7	<0.5	<0.2
991434	Soil	19	0.45	139	0.020	<1	1.44	0.005	0.05	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
991435	Soil	15	0.29	154	0.024	<1	1.15	0.006	0.06	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
991436	Soil	20	0.43	136	0.021	<1	1.59	0.006	0.07	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
991437	Soil	17	0.24	187	0.028	<1	1.22	0.006	0.06	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
991438	Soil	16	0.28	222	0.029	2	0.96	0.006	0.08	0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
991439	Soil	20	0.43	158	0.026	2	1.58	0.007	0.06	<0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
991440	Soil	16	0.33	151	0.028	<1	1.19	0.006	0.04	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991441	Soil	17	0.30	159	0.023	<1	1.27	0.007	0.04	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
991500	Soil	18	0.44	128	0.028	<1	1.36	0.006	0.05	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991501	Soil	22	0.49	245	0.018	<1	1.70	0.008	0.06	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2
991502	Soil	25	0.44	408	0.010	<1	2.24	0.009	0.07	<0.1	0.07	12.1	<0.1	<0.05	6	<0.5	<0.2
991503	Soil	18	0.35	213	0.024	2	1.27	0.006	0.11	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
991504	Soil	20	0.49	137	0.033	<1	1.49	0.007	0.04	<0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
991505	Soil	18	0.35	203	0.011	<1	1.58	0.007	0.04	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
991506	Soil	21	0.46	102	0.008	<1	2.21	0.005	0.05	<0.1	0.03	4.1	0.1	<0.05	7	<0.5	<0.2
991507	Soil	18	0.36	107	0.027	<1	1.58	0.005	0.06	0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
991508	Soil	17	0.30	191	0.020	<1	1.24	0.008	0.06	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
991509	Soil	22	0.45	322	0.023	2	1.70	0.011	0.06	<0.1	0.07	7.3	<0.1	<0.05	5	0.6	<0.2
991510	Soil	20	0.31	246	0.015	1	1.80	0.006	0.05	<0.1	0.03	5.8	0.1	<0.05	6	<0.5	<0.2
991511	Soil	16	0.26	245	0.035	<1	0.97	0.006	0.07	0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2



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 Report Date: November 06, 2012

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
991236	Soil	4.9	22.8	60.0	1186	1.0	18.6	16.2	3678	4.46	280.3	<0.5	0.6	17	7.3	1.3	0.2	75	0.40	0.073	6
REP 991236	QC	5.4	22.5	59.0	1140	1.0	18.5	16.4	3809	4.46	282.2	<0.5	0.6	17	7.3	1.3	0.2	74	0.42	0.073	6
991246	Soil	0.6	18.5	9.2	97	<0.1	19.5	9.0	838	3.03	13.9	<0.5	0.7	29	0.1	0.4	<0.1	62	0.36	0.043	9
REP 991246	QC	0.6	18.6	8.7	98	<0.1	19.7	9.0	826	2.97	13.1	<0.5	0.7	29	0.2	0.4	<0.1	63	0.37	0.043	9
991294	Soil	1.0	50.0	10.4	125	0.3	31.3	9.6	1597	3.41	13.8	2.2	0.9	39	0.2	0.4	0.1	59	0.33	0.117	19
REP 991294	QC	0.8	52.1	10.5	129	0.3	32.8	9.8	1559	3.45	13.8	2.0	1.0	40	0.1	0.4	0.1	59	0.34	0.121	19
991304	Soil	0.7	11.7	7.0	69	<0.1	16.6	8.7	468	2.71	28.3	1.7	0.3	31	0.3	0.4	<0.1	54	0.50	0.037	4
REP 991304	QC	0.6	11.3	6.8	64	<0.1	16.2	7.9	451	2.50	26.8	2.4	0.3	30	0.1	0.4	<0.1	53	0.45	0.035	4
991330	Soil	0.6	15.6	12.6	262	0.3	14.4	11.8	1887	2.96	16.8	<0.5	0.4	15	2.2	0.3	0.2	61	0.45	0.042	4
REP 991330	QC	0.6	15.7	12.5	260	0.4	14.5	11.8	1927	3.00	17.3	<0.5	0.4	16	2.3	0.3	0.2	62	0.47	0.043	4
991340	Soil	0.7	12.2	7.9	449	0.2	18.0	9.0	830	2.96	8.8	<0.5	0.5	14	3.2	0.4	0.1	56	0.16	0.030	5
REP 991340	QC	0.7	12.4	7.9	440	0.2	18.1	8.7	811	2.94	8.2	<0.5	0.5	14	3.4	0.3	0.1	55	0.16	0.030	5
991367	Soil	0.9	13.9	8.5	93	<0.1	15.6	9.0	385	3.03	16.1	0.9	0.5	23	0.1	0.4	<0.1	66	0.28	0.028	5
REP 991367	QC	0.8	13.5	8.7	90	<0.1	15.1	8.5	378	2.93	15.2	1.6	0.6	23	<0.1	0.3	0.1	65	0.28	0.030	5
991377	Soil	1.0	13.1	12.6	791	0.5	17.1	11.4	1697	3.24	8.9	<0.5	0.6	18	6.9	0.5	0.2	61	0.33	0.119	5
REP 991377	QC	0.9	13.0	12.8	780	0.5	17.5	11.5	1717	3.34	8.6	0.5	0.5	17	6.5	0.5	0.1	61	0.32	0.117	5
991406	Soil	1.0	15.3	13.4	220	<0.1	15.9	8.2	479	3.58	15.1	<0.5	0.5	14	0.6	0.4	<0.1	64	0.25	0.079	4
REP 991406	QC	1.0	14.9	13.7	221	<0.1	15.9	8.7	483	3.59	14.9	<0.5	0.4	14	0.7	0.5	<0.1	64	0.26	0.079	4
991416	Soil	0.6	9.3	14.5	216	0.2	12.2	6.2	362	2.56	7.2	1.2	0.3	18	1.1	0.4	0.1	51	0.24	0.057	5
REP 991416	QC	0.6	9.4	14.1	214	0.2	12.6	5.9	375	2.69	7.1	1.0	0.4	18	1.1	0.3	0.1	53	0.23	0.058	5
991433	Soil	1.6	26.0	13.1	289	0.1	20.1	14.3	1160	4.39	12.6	2.6	1.0	27	3.4	0.5	0.2	83	0.46	0.047	6
REP 991433	QC	1.6	26.5	13.1	287	0.1	19.5	14.2	1210	4.42	13.0	2.2	1.0	26	4.0	0.4	0.2	83	0.45	0.044	6
991510	Soil	1.8	17.7	32.4	419	0.6	15.8	10.1	2061	3.41	16.2	<0.5	0.4	13	3.8	0.6	<0.1	65	0.41	0.035	7
REP 991510	QC	1.7	18.2	32.1	409	0.6	15.8	9.9	2024	3.29	16.8	<0.5	0.4	14	3.6	0.5	0.1	63	0.40	0.035	7
Reference Materials																					
STD DS9	Standard	14.4	120.7	134.4	321	1.8	45.0	8.5	644	2.55	26.1	109.3	6.7	78	2.5	5.6	6.5	50	0.81	0.088	16
STD DS9	Standard	13.3	112.2	127.3	313	1.9	41.2	7.9	595	2.37	27.2	113.1	6.2	70	2.5	5.7	6.4	42	0.71	0.088	13
STD DS9	Standard	14.3	123.1	145.2	333	2.0	45.3	8.6	642	2.56	26.5	129.2	6.6	72	2.4	5.6	6.6	50	0.77	0.088	13



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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
991236	Soil	26	0.36	351	0.028	3	1.89	0.007	0.11	0.1	0.04	5.5	0.4	0.07	6	<0.5	<0.2
REP 991236	QC	25	0.36	351	0.028	2	1.89	0.007	0.10	0.1	0.03	5.6	0.4	0.05	6	<0.5	<0.2
991246	Soil	26	0.49	194	0.036	1	1.61	0.008	0.08	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
REP 991246	QC	26	0.49	192	0.035	<1	1.64	0.009	0.08	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
991294	Soil	34	0.56	415	0.012	1	3.21	0.010	0.12	0.1	0.11	11.3	0.1	<0.05	8	<0.5	<0.2
REP 991294	QC	34	0.59	406	0.012	4	3.51	0.011	0.12	0.1	0.11	12.2	0.2	<0.05	8	0.7	<0.2
991304	Soil	19	0.37	163	0.037	<1	1.18	0.007	0.07	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
REP 991304	QC	19	0.36	156	0.032	2	1.12	0.006	0.07	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991330	Soil	20	0.33	292	0.031	2	0.99	0.005	0.07	<0.1	0.02	3.0	<0.1	0.07	4	<0.5	<0.2
REP 991330	QC	20	0.33	298	0.032	2	1.01	0.005	0.07	0.1	0.02	2.9	<0.1	0.05	4	<0.5	<0.2
991340	Soil	21	0.40	177	0.033	<1	1.14	0.005	0.05	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
REP 991340	QC	20	0.39	179	0.032	<1	1.08	0.005	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991367	Soil	22	0.44	236	0.031	<1	1.27	0.008	0.04	<0.1	0.02	3.2	<0.1	0.18	4	<0.5	<0.2
REP 991367	QC	21	0.43	232	0.033	<1	1.24	0.008	0.04	<0.1	0.01	3.0	<0.1	0.13	5	<0.5	<0.2
991377	Soil	23	0.48	341	0.050	2	1.27	0.007	0.11	0.1	0.03	3.3	<0.1	0.20	5	<0.5	<0.2
REP 991377	QC	22	0.49	343	0.047	2	1.26	0.006	0.11	0.1	0.03	3.4	<0.1	0.20	5	<0.5	<0.2
991406	Soil	18	0.38	121	0.011	1	1.58	0.005	0.04	<0.1	<0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
REP 991406	QC	19	0.38	118	0.011	2	1.52	0.004	0.04	<0.1	<0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
991416	Soil	17	0.33	158	0.026	1	1.09	0.006	0.04	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
REP 991416	QC	17	0.33	153	0.027	2	1.13	0.006	0.04	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
991433	Soil	22	0.45	257	0.024	2	1.84	0.006	0.09	0.1	0.05	7.4	<0.1	<0.05	7	<0.5	<0.2
REP 991433	QC	21	0.45	260	0.023	1	1.85	0.006	0.09	<0.1	0.03	7.2	<0.1	<0.05	7	<0.5	<0.2
991510	Soil	20	0.31	246	0.015	1	1.80	0.006	0.05	<0.1	0.03	5.8	0.1	<0.05	6	<0.5	<0.2
REP 991510	QC	20	0.31	242	0.014	<1	1.76	0.006	0.04	0.1	0.04	5.6	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	139	0.69	311	0.130	2	1.09	0.093	0.43	3.0	0.21	2.7	5.7	0.20	5	5.5	5.6
STD DS9	Standard	126	0.64	323	0.116	3	0.94	0.093	0.40	3.0	0.21	2.5	5.4	0.13	5	5.7	5.1
STD DS9	Standard	140	0.71	321	0.129	2	1.02	0.084	0.42	2.9	0.23	2.7	5.8	0.33	5	6.2	5.2





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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS9	Standard	13.3	111.8	140.5	317	2.0	45.0	8.3	605	2.46	23.7	115.7	6.7	67	2.4	5.2	6.5	51	0.73	0.081	13
STD DS9	Standard	13.1	104.9	125.8	300	1.7	38.4	7.1	557	2.25	25.8	115.9	6.6	74	2.5	5.3	6.0	39	0.66	0.079	13
STD DS9	Standard	13.4	103.5	129.4	308	1.8	39.9	7.4	596	2.33	26.0	115.0	7.0	79	2.1	6.0	7.2	40	0.75	0.084	15
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	0.002	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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# QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS9	Standard	131	0.64	303	0.116	3	0.93	0.081	0.37	3.2	0.23	2.5	5.8	0.23	5	5.3	5.5
STD DS9	Standard	113	0.60	297	0.108	2	0.89	0.079	0.40	2.6	0.19	2.5	5.6	0.13	5	5.2	4.7
STD DS9	Standard	115	0.66	305	0.113	3	0.94	0.084	0.42	3.2	0.24	2.8	5.6	0.14	5	5.2	4.9
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.18	<1	<0.5	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 19, 2012

Report Date: October 27, 2012

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# CERTIFICATE OF ANALYSIS

# SMI12000492.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-05\_201210  
P.O. Number: QZM-ZNT-05  
Number of Samples: 238

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	237	Dry at 60C			SMI
SS80	237	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	234	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

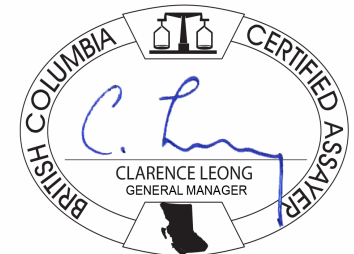
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Project: ZNT  
 Report Date: October 27, 2012

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CERTIFICATE OF ANALYSIS

SMI12000492.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991442	Soil	1.5	49.4	15.1	272	0.4	29.6	15.6	1488	3.99	33.9	1.5	1.3	40	0.9	0.8	0.2	67	0.79	0.070	8
991443	Soil	1.4	193.3	20.6	275	6.1	16.3	21.1	3658	3.98	63.6	<0.5	0.5	29	1.7	0.7	0.2	69	1.66	0.092	9
991444	Soil	1.0	23.7	26.8	212	1.6	14.9	18.4	2398	6.03	60.0	<0.5	0.9	13	0.7	0.5	0.2	111	0.49	0.044	9
991445	Soil	0.9	30.0	60.5	274	1.2	13.9	24.6	4526	6.27	148.8	4.0	0.4	16	1.6	0.6	0.2	125	0.84	0.080	10
991446	Soil	0.8	31.2	14.8	176	0.5	21.9	17.3	1794	4.80	56.4	1.0	1.0	22	0.5	0.6	0.1	87	0.67	0.052	10
991447	Soil	0.8	35.2	14.0	167	0.3	30.2	15.6	1081	3.89	19.7	1.1	1.7	27	0.4	0.7	0.1	67	0.74	0.067	11
991448	Soil	0.6	13.1	9.9	149	<0.1	15.8	9.8	764	2.87	9.3	<0.5	0.5	15	0.5	0.4	0.1	56	0.39	0.021	5
991449	Soil	0.7	74.0	10.3	394	1.4	38.7	13.5	1816	3.63	29.8	<0.5	1.5	45	1.8	0.5	0.2	60	1.89	0.073	31
991450	Soil	0.7	19.4	8.4	115	0.1	18.4	11.2	847	3.05	7.7	<0.5	0.4	19	0.4	0.3	0.1	62	0.38	0.036	6
991451	Soil	0.6	14.0	7.2	72	<0.1	18.3	9.9	476	3.13	12.2	<0.5	0.7	19	0.1	0.4	0.1	64	0.26	0.022	5
991452	Soil	0.7	15.4	10.2	102	0.1	13.9	11.9	830	3.19	34.6	3.0	0.5	18	0.3	0.5	0.1	63	0.36	0.030	6
991453	Soil	0.5	16.0	6.9	93	<0.1	19.4	10.0	431	2.97	9.2	<0.5	0.8	20	0.1	0.4	0.1	59	0.26	0.049	5
991454	Soil	0.4	11.6	5.9	87	<0.1	17.9	8.7	500	2.55	5.1	<0.5	0.7	18	0.1	0.3	0.1	55	0.30	0.020	7
991455	Soil	0.6	16.9	6.7	65	<0.1	20.7	9.2	336	3.02	10.5	<0.5	0.7	21	<0.1	0.4	<0.1	62	0.20	0.033	5
991456	Soil	0.7	12.4	6.6	113	<0.1	19.1	9.0	509	3.15	9.2	0.8	0.6	16	0.2	0.4	<0.1	67	0.22	0.024	4
991457	Soil	0.8	25.6	9.6	121	0.3	23.4	10.9	981	3.29	12.3	<0.5	0.8	32	0.5	0.5	0.1	65	0.54	0.032	9
991458	Soil	0.6	12.7	8.4	144	<0.1	16.2	9.9	651	3.06	18.4	1.0	0.3	20	0.2	0.4	0.1	67	0.31	0.036	5
991459	Soil	0.5	28.0	9.2	158	0.2	24.9	12.1	1408	3.14	8.1	<0.5	0.6	32	0.8	0.4	0.1	60	0.66	0.039	12
991460	Soil	0.6	19.5	10.4	214	<0.1	18.8	13.0	1670	3.45	14.5	<0.5	0.5	18	0.7	0.3	0.2	76	0.24	0.032	6
991461	Soil	0.7	16.1	7.6	99	<0.1	21.4	9.9	583	2.89	9.0	4.5	0.7	24	0.1	0.4	<0.1	61	0.29	0.024	7
991462	Soil	0.8	9.1	7.4	114	<0.1	15.0	6.3	229	2.95	9.2	<0.5	0.6	15	0.1	0.3	0.2	66	0.13	0.026	5
991463	Soil	0.6	20.8	10.3	149	0.1	17.3	11.4	1138	2.89	12.3	0.7	0.3	31	0.3	0.3	0.2	65	0.44	0.048	9
991464	Soil	0.7	23.2	14.1	218	<0.1	20.1	12.7	2055	3.88	15.6	2.0	0.4	27	0.5	0.3	0.2	74	0.35	0.047	9
991465	Soil	0.5	14.3	9.4	159	0.1	20.9	9.0	803	2.67	9.4	<0.5	0.4	34	0.5	0.4	<0.1	55	0.53	0.058	8
991466	Soil	0.6	35.1	11.0	164	0.2	26.9	11.3	1309	2.96	11.3	<0.5	0.5	47	1.1	0.4	0.1	57	0.61	0.065	17
991467	Soil	0.5	23.4	12.8	191	0.2	21.9	11.9	1984	2.98	10.3	<0.5	0.4	46	1.2	0.4	0.1	57	0.53	0.102	9
991468	Soil	0.5	15.7	8.1	72	<0.1	18.6	7.8	483	2.68	11.7	<0.5	0.8	31	0.2	0.4	<0.1	55	0.28	0.052	8
991469	Soil	0.5	12.7	7.2	91	<0.1	17.5	8.6	462	2.87	11.2	<0.5	0.7	25	0.2	0.4	<0.1	61	0.21	0.034	5
991470	Soil	0.7	9.8	9.0	189	0.1	13.9	9.6	1131	2.73	6.4	<0.5	0.3	39	0.7	0.3	0.1	57	0.51	0.072	5
991471	Soil	0.6	23.1	10.2	129	0.1	24.2	11.1	1141	3.30	10.6	<0.5	0.7	28	0.2	0.4	<0.1	69	0.29	0.049	10

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991442	Soil	28	0.64	258	0.023	3	1.74	0.019	0.11	0.1	0.07	9.3	0.1	<0.05	5	<0.5	<0.2
991443	Soil	18	0.33	367	0.015	8	1.56	0.007	0.13	0.2	0.12	11.7	0.2	<0.05	5	<0.5	<0.2
991444	Soil	19	0.32	436	0.028	3	1.56	0.007	0.10	0.2	0.06	17.9	<0.1	<0.05	5	<0.5	<0.2
991445	Soil	17	0.27	932	0.017	3	1.93	0.006	0.13	0.1	0.08	17.1	0.2	<0.05	6	<0.5	<0.2
991446	Soil	24	0.44	532	0.017	3	1.77	0.007	0.14	0.1	0.07	13.4	0.1	<0.05	5	<0.5	<0.2
991447	Soil	32	0.68	287	0.025	2	2.23	0.008	0.13	0.1	0.07	10.2	<0.1	<0.05	6	<0.5	<0.2
991448	Soil	20	0.41	167	0.042	3	1.24	0.006	0.11	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991449	Soil	33	0.61	869	0.012	4	3.13	0.010	0.19	0.2	0.11	16.5	0.1	0.09	7	<0.5	<0.2
991450	Soil	23	0.42	396	0.024	2	1.60	0.008	0.11	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
991451	Soil	22	0.47	347	0.035	<1	1.43	0.007	0.05	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
991452	Soil	20	0.33	277	0.034	2	1.15	0.006	0.08	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
991453	Soil	21	0.45	175	0.039	1	1.40	0.008	0.10	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
991454	Soil	21	0.43	305	0.045	2	1.35	0.010	0.06	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
991455	Soil	23	0.48	111	0.040	<1	1.37	0.011	0.06	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
991456	Soil	22	0.47	133	0.041	2	1.29	0.007	0.05	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991457	Soil	26	0.53	254	0.037	1	1.65	0.011	0.09	<0.1	0.03	6.8	<0.1	<0.05	5	<0.5	<0.2
991458	Soil	21	0.42	176	0.032	2	1.35	0.007	0.07	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
991459	Soil	25	0.47	321	0.031	2	1.61	0.009	0.09	<0.1	0.03	6.5	<0.1	<0.05	5	<0.5	<0.2
991460	Soil	22	0.37	400	0.037	1	1.61	0.007	0.12	<0.1	0.01	4.6	<0.1	<0.05	6	<0.5	<0.2
991461	Soil	23	0.48	219	0.039	<1	1.51	0.009	0.07	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
991462	Soil	19	0.35	126	0.036	<1	1.31	0.005	0.06	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
991463	Soil	22	0.36	254	0.024	2	1.54	0.007	0.08	0.1	0.03	4.3	<0.1	<0.05	6	<0.5	<0.2
991464	Soil	26	0.49	245	0.032	<1	1.65	0.008	0.10	0.1	0.03	5.8	<0.1	<0.05	6	<0.5	<0.2
991465	Soil	21	0.42	247	0.039	2	1.32	0.008	0.12	<0.1	0.02	4.0	<0.1	0.07	4	<0.5	<0.2
991466	Soil	25	0.53	323	0.025	3	1.66	0.010	0.12	<0.1	0.02	6.6	<0.1	<0.05	5	<0.5	<0.2
991467	Soil	22	0.40	389	0.033	2	1.35	0.007	0.09	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
991468	Soil	21	0.45	137	0.052	<1	1.20	0.010	0.06	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
991469	Soil	20	0.41	152	0.052	<1	1.20	0.008	0.08	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
991470	Soil	18	0.28	243	0.040	3	1.15	0.007	0.09	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
991471	Soil	25	0.54	211	0.048	<1	1.51	0.010	0.08	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: October 27, 2012

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CERTIFICATE OF ANALYSIS

SMI12000492.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991472	Soil	0.5	38.0	8.2	106	0.2	32.0	10.8	797	3.26	12.4	1.3	0.3	44	0.3	0.4	<0.1	61	0.50	0.068	15
991473	Soil	0.5	23.9	8.4	113	<0.1	23.9	10.6	744	3.09	8.8	<0.5	0.7	35	0.4	0.4	0.1	60	0.40	0.059	11
991474	Soil	0.8	95.2	14.7	157	0.6	49.3	15.7	1599	3.98	15.2	<0.5	1.3	78	0.7	0.5	0.1	65	0.81	0.097	56
991475	Soil	0.7	34.3	14.9	173	0.2	26.0	12.5	1207	3.54	18.1	0.5	0.9	36	0.6	0.5	0.1	73	0.37	0.052	12
991476	Soil	0.7	68.1	15.1	182	0.4	41.0	15.7	1507	3.93	19.4	<0.5	0.9	57	0.8	0.6	0.2	76	0.62	0.086	21
991477	Soil	0.7	49.0	12.2	217	0.4	32.9	11.3	1122	3.27	19.1	<0.5	0.7	74	1.3	0.4	0.1	57	1.27	0.084	15
991478	Soil	0.7	26.7	10.5	106	0.1	22.6	12.1	1030	2.99	14.0	2.0	0.7	50	0.5	0.5	0.2	55	0.83	0.067	7
991479	Soil	0.5	30.1	9.7	134	0.3	24.5	8.0	468	2.93	10.8	2.0	0.9	42	0.5	0.3	0.2	52	0.62	0.070	8
991480	Soil	0.6	61.0	9.2	135	0.4	34.6	9.6	683	2.93	10.5	1.0	0.7	62	0.7	0.5	0.2	51	0.95	0.081	15
991481	Soil	0.4	23.1	9.2	174	0.1	23.4	10.2	1047	2.94	8.4	<0.5	0.5	36	0.7	0.4	0.2	54	0.46	0.090	9
991482	Soil	0.5	16.3	9.3	115	0.1	19.5	9.4	582	2.95	14.1	1.9	1.0	24	0.2	0.5	0.1	56	0.30	0.031	6
991483	Soil	0.7	16.9	11.6	105	<0.1	21.4	8.9	606	3.13	10.5	<0.5	0.7	32	0.3	0.4	0.1	60	0.30	0.055	6
991484	Soil	0.8	59.9	11.9	124	0.4	35.5	13.5	981	3.66	17.1	<0.5	1.1	55	0.6	0.7	0.1	62	0.89	0.070	22
991485	Soil	0.5	22.7	9.2	91	<0.1	21.8	10.5	704	3.14	15.1	1.2	1.1	32	0.2	0.5	0.1	57	0.42	0.049	9
991486	Soil	0.5	29.2	9.3	102	0.3	24.7	11.2	711	3.40	15.5	1.5	1.1	30	0.3	0.5	0.2	61	0.46	0.026	9
991487	Soil	0.6	26.5	8.6	92	0.1	21.6	11.0	780	3.20	10.8	<0.5	1.0	31	0.3	0.5	0.1	59	0.35	0.032	9
991488	Soil	0.6	24.1	8.9	70	<0.1	21.9	11.5	708	3.27	12.7	0.5	1.1	38	0.2	0.5	0.1	58	0.40	0.039	9
991489	Soil	0.7	29.4	10.2	90	0.2	26.1	13.6	937	3.47	13.3	1.1	1.2	38	0.2	0.6	0.2	63	0.45	0.043	9
991490	Soil	0.6	49.9	8.8	141	0.5	34.8	11.8	811	3.42	10.2	0.9	1.0	45	0.9	0.6	0.2	55	0.96	0.061	12
991491	Soil	0.7	27.8	8.1	85	0.3	23.6	10.3	790	2.85	10.5	0.7	0.9	46	0.4	0.4	0.1	50	1.00	0.041	10
991492	Soil	3.2	62.2	9.1	103	0.8	44.3	18.2	>10000	6.49	328.1	1.2	1.6	74	1.5	0.5	0.2	61	0.91	0.049	10
991493	Soil	0.8	37.3	9.5	97	0.2	30.6	14.1	1038	3.76	14.3	<0.5	1.5	48	0.2	0.6	0.2	67	0.60	0.065	11
991494	Soil	0.7	23.8	8.7	103	0.1	21.9	11.2	856	3.12	11.7	0.7	1.1	31	0.4	0.4	0.1	59	0.46	0.034	9
991495	Soil	0.6	12.5	7.2	224	0.2	12.0	7.6	711	2.53	4.7	<0.5	0.6	17	1.0	0.3	0.1	52	0.34	0.027	5
991496	Soil	1.6	65.2	13.4	499	1.4	40.0	15.2	2878	4.76	52.7	<0.5	1.7	46	3.3	0.7	0.2	74	1.18	0.056	14
991497	Soil	0.8	16.6	11.6	536	0.6	21.3	10.5	904	3.20	12.2	6.0	0.7	25	3.6	0.5	0.1	55	0.44	0.044	6
991498	Soil	1.1	17.0	12.3	275	0.3	20.1	10.3	838	3.37	38.3	1.3	1.1	22	0.9	0.5	0.1	59	0.35	0.027	7
991499	Soil	0.7	17.0	10.6	361	0.4	15.4	9.1	1389	2.76	10.4	<0.5	0.4	22	1.6	0.3	0.2	50	0.78	0.045	5
991513	Soil	0.5	11.2	8.5	166	<0.1	15.5	9.7	1050	2.71	6.7	0.9	0.2	14	0.3	0.3	0.1	52	0.32	0.074	5
991514	Soil	0.5	10.2	7.8	92	<0.1	14.1	7.9	481	2.92	18.3	<0.5	0.5	17	0.6	0.4	0.1	56	0.53	0.028	4

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991472	Soil	28	0.57	300	0.020	<1	1.91	0.009	0.10	0.1	0.05	6.0	<0.1	<0.05	5	<0.5	<0.2
991473	Soil	24	0.53	187	0.046	2	1.39	0.012	0.10	<0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2
991474	Soil	41	0.87	530	0.009	1	3.29	0.012	0.16	0.2	0.09	17.7	0.1	<0.05	8	0.6	<0.2
991475	Soil	28	0.59	223	0.042	2	1.75	0.012	0.09	0.1	0.04	7.7	<0.1	<0.05	5	<0.5	<0.2
991476	Soil	39	0.77	429	0.024	2	2.81	0.014	0.19	0.1	0.05	12.0	0.1	<0.05	8	<0.5	<0.2
991477	Soil	30	0.65	373	0.010	2	2.43	0.014	0.12	0.1	0.08	9.8	<0.1	0.07	6	<0.5	<0.2
991478	Soil	23	0.60	171	0.027	4	1.53	0.015	0.09	0.2	0.06	6.6	<0.1	<0.05	5	<0.5	<0.2
991479	Soil	25	0.57	294	0.012	2	2.14	0.012	0.10	<0.1	0.04	8.0	<0.1	<0.05	6	<0.5	<0.2
991480	Soil	27	0.72	314	0.009	4	2.07	0.010	0.13	<0.1	0.08	9.5	<0.1	<0.05	6	<0.5	<0.2
991481	Soil	23	0.49	288	0.030	2	1.47	0.009	0.09	0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
991482	Soil	22	0.49	149	0.054	2	1.21	0.016	0.09	<0.1	0.03	5.7	<0.1	<0.05	4	<0.5	<0.2
991483	Soil	22	0.52	137	0.054	2	1.33	0.017	0.08	0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
991484	Soil	32	0.74	360	0.018	2	2.32	0.018	0.12	<0.1	0.09	12.9	<0.1	<0.05	6	<0.5	<0.2
991485	Soil	23	0.55	171	0.047	2	1.44	0.011	0.12	<0.1	0.04	6.8	<0.1	<0.05	5	<0.5	<0.2
991486	Soil	27	0.61	227	0.035	2	1.74	0.014	0.10	<0.1	0.06	8.5	<0.1	<0.05	5	<0.5	<0.2
991487	Soil	23	0.53	179	0.052	1	1.39	0.016	0.08	<0.1	0.03	6.7	<0.1	<0.05	4	<0.5	<0.2
991488	Soil	24	0.60	154	0.051	2	1.47	0.016	0.13	<0.1	0.03	7.0	<0.1	<0.05	5	<0.5	<0.2
991489	Soil	28	0.67	202	0.034	2	1.72	0.015	0.09	0.1	0.04	9.1	<0.1	<0.05	5	<0.5	<0.2
991490	Soil	30	0.72	378	0.011	3	2.28	0.012	0.14	<0.1	0.08	9.8	<0.1	<0.05	6	<0.5	<0.2
991491	Soil	24	0.56	285	0.022	4	1.61	0.010	0.10	<0.1	0.06	7.8	<0.1	<0.05	5	<0.5	<0.2
991492	Soil	32	0.76	1261	0.015	3	2.53	0.016	0.14	<0.1	0.14	16.8	0.3	<0.05	7	<0.5	<0.2
991493	Soil	31	0.74	212	0.032	4	2.16	0.016	0.16	0.1	0.06	9.9	<0.1	<0.05	6	<0.5	<0.2
991494	Soil	25	0.56	212	0.042	2	1.50	0.011	0.09	<0.1	0.05	6.9	<0.1	<0.05	5	<0.5	<0.2
991495	Soil	18	0.36	126	0.044	2	1.07	0.007	0.06	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991496	Soil	36	0.71	425	0.021	5	3.11	0.018	0.16	0.1	0.10	15.6	0.2	<0.05	9	<0.5	<0.2
991497	Soil	21	0.54	144	0.041	3	1.40	0.008	0.09	0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
991498	Soil	22	0.51	135	0.048	3	1.32	0.009	0.14	0.1	0.04	5.9	<0.1	<0.05	5	<0.5	<0.2
991499	Soil	18	0.37	217	0.032	2	1.32	0.009	0.06	0.1	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
991513	Soil	19	0.39	270	0.020	1	1.39	0.006	0.09	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
991514	Soil	18	0.39	192	0.024	3	1.17	0.005	0.09	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
991515	Soil	0.7	9.6	7.3	214	<0.1	12.6	9.0	523	2.68	5.9	<0.5	0.6	14	0.9	0.3	0.1	52	0.37	0.019	5
991516	Soil	0.7	9.2	7.0	73	0.1	13.4	6.8	387	2.99	10.2	<0.5	0.5	12	0.2	0.3	0.1	57	0.26	0.026	4
991517	Soil	0.6	8.8	7.2	220	0.1	14.6	8.7	864	2.50	5.9	<0.5	0.5	18	1.1	0.3	0.1	46	0.40	0.027	5
991518	Soil	0.7	13.7	10.6	205	0.4	14.4	9.7	1525	2.76	7.7	<0.5	0.4	14	1.0	0.3	0.1	55	0.39	0.035	5
991519	Soil	1.0	31.0	13.6	197	0.6	21.4	11.2	1170	3.30	13.7	<0.5	0.9	18	0.5	0.5	0.1	60	0.34	0.035	11
991520	Soil	0.5	17.6	8.5	358	0.2	17.3	8.1	700	2.73	8.3	<0.5	0.4	21	1.7	0.4	0.2	51	0.33	0.065	7
991521	Soil	1.1	49.6	9.9	1252	1.0	29.9	12.0	1115	3.33	10.8	<0.5	0.8	36	6.0	0.6	0.2	60	1.10	0.067	10
991524	Soil	0.6	13.2	6.6	127	0.1	16.4	8.1	726	2.68	7.3	<0.5	0.3	26	0.4	0.3	0.1	48	0.33	0.034	4
991525	Soil	0.6	15.6	6.5	90	0.2	15.9	6.4	569	2.62	7.2	<0.5	0.3	27	0.6	0.3	<0.1	51	0.30	0.043	6
991526	Soil	0.5	11.5	7.1	154	<0.1	15.9	6.5	323	2.80	6.9	5.0	0.6	13	0.9	0.3	0.1	51	0.11	0.048	4
991527	Soil	0.5	9.3	6.0	154	<0.1	11.9	7.0	531	2.37	3.0	<0.5	0.4	17	0.7	0.2	0.1	48	0.19	0.027	5
991528	Soil	0.6	13.0	7.1	128	<0.1	16.3	7.1	430	2.96	7.6	<0.5	0.6	18	0.8	0.3	0.1	54	0.19	0.040	4
991529	Soil	0.7	9.7	9.0	450	0.3	13.8	10.3	935	2.70	7.9	<0.5	0.4	25	1.8	0.3	0.2	52	0.30	0.040	4
991530	Soil	0.8	26.6	8.3	175	0.4	22.2	11.9	590	2.94	8.4	<0.5	0.5	34	1.7	0.4	0.2	49	0.61	0.039	5
991531	Soil	0.8	22.7	7.6	274	0.4	18.2	9.9	958	2.44	4.6	<0.5	0.4	43	1.5	0.3	0.2	42	0.95	0.047	5
991532	Soil	0.9	29.3	9.4	298	0.3	22.8	9.4	908	2.81	6.0	<0.5	0.7	43	2.5	0.4	0.2	47	1.38	0.052	7
991533	Soil	1.2	35.2	8.6	185	0.4	24.7	8.7	594	2.99	8.4	0.9	0.7	47	1.9	0.4	0.2	51	1.23	0.049	7
991534	Soil	0.8	13.6	9.0	196	0.3	10.4	5.8	545	2.21	5.1	0.7	0.4	22	3.0	0.3	0.1	47	0.57	0.029	6
991535	Soil	0.7	6.5	7.8	312	0.2	10.3	6.5	784	2.16	3.8	<0.5	0.3	14	2.8	0.3	0.2	47	0.18	0.027	5
991536	Soil	0.6	7.2	12.7	175	0.1	10.4	7.5	977	2.33	5.0	<0.5	0.3	20	1.3	0.3	0.1	50	0.19	0.029	5
991537	Soil	1.0	69.0	25.3	308	0.8	40.1	13.5	1522	4.18	12.0	1.8	1.1	45	1.2	0.5	0.2	69	0.65	0.104	28
991538	Soil	0.5	14.9	11.2	186	0.2	18.1	8.8	1115	2.46	5.7	<0.5	0.4	26	2.8	0.3	0.1	46	0.27	0.046	5
991539	Soil	0.9	14.1	9.5	204	0.2	14.5	7.0	1688	2.34	6.2	1.0	0.2	24	1.4	0.3	0.2	46	0.26	0.053	5
991540	Soil	0.6	15.9	13.0	303	0.2	19.0	9.4	586	2.94	9.4	1.1	0.5	16	2.3	0.4	0.1	54	0.17	0.047	5
991541	Soil	0.7	6.7	9.5	128	0.2	9.3	5.4	326	2.45	7.6	1.3	0.4	15	0.5	0.4	0.1	55	0.14	0.028	4
991542	Soil	0.8	8.1	10.5	170	<0.1	11.2	5.5	323	2.87	9.4	<0.5	0.6	11	1.0	0.5	0.1	67	0.17	0.023	5
991543	Soil	0.7	11.5	13.2	223	<0.1	13.1	7.5	334	2.95	11.7	1.3	0.5	22	0.7	0.5	0.1	61	0.23	0.020	4
991544	Soil	0.8	17.3	13.0	133	0.1	16.5	7.2	391	2.86	10.9	0.6	0.6	19	0.8	0.5	<0.1	55	0.20	0.038	5
991545	Soil	0.8	14.7	10.2	237	0.4	19.2	7.0	322	2.97	9.6	<0.5	0.4	17	1.0	0.5	0.1	58	0.19	0.067	5
991546	Soil	0.6	15.2	10.8	213	0.2	13.6	6.1	408	2.44	7.7	0.6	0.3	20	1.6	0.4	0.1	51	0.20	0.037	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991515	Soil	18	0.34	211	0.032	1	1.13	0.006	0.10	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991516	Soil	18	0.38	188	0.027	<1	1.23	0.008	0.05	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
991517	Soil	18	0.41	198	0.034	1	1.17	0.006	0.06	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
991518	Soil	18	0.36	264	0.022	<1	1.40	0.006	0.06	<0.1	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
991519	Soil	23	0.51	251	0.028	1	1.78	0.008	0.08	<0.1	0.04	7.0	0.1	<0.05	6	<0.5	<0.2
991520	Soil	20	0.50	167	0.023	1	1.49	0.006	0.07	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991521	Soil	29	0.60	413	0.021	<1	2.29	0.012	0.10	0.1	0.08	9.6	0.2	<0.05	7	<0.5	<0.2
991524	Soil	18	0.44	133	0.024	<1	1.23	0.006	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991525	Soil	18	0.42	162	0.017	<1	1.32	0.007	0.05	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
991526	Soil	19	0.43	101	0.017	<1	1.62	0.006	0.04	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
991527	Soil	16	0.32	112	0.026	<1	1.22	0.007	0.06	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
991528	Soil	20	0.43	104	0.021	<1	1.38	0.006	0.06	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
991529	Soil	18	0.34	173	0.027	3	1.09	0.007	0.08	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
991530	Soil	22	0.45	226	0.027	3	1.31	0.007	0.07	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
991531	Soil	18	0.36	239	0.023	3	1.24	0.008	0.08	<0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
991532	Soil	21	0.43	287	0.015	4	1.65	0.009	0.07	<0.1	0.05	5.9	<0.1	<0.05	5	0.6	<0.2
991533	Soil	23	0.45	272	0.011	3	1.76	0.009	0.07	0.1	0.06	6.9	<0.1	<0.05	5	0.6	<0.2
991534	Soil	14	0.24	200	0.024	3	0.87	0.007	0.06	<0.1	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
991535	Soil	14	0.26	128	0.035	1	0.89	0.007	0.06	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
991536	Soil	14	0.26	181	0.026	2	0.97	0.007	0.05	<0.1	0.01	2.4	0.1	<0.05	4	<0.5	<0.2
991537	Soil	42	0.82	422	0.012	2	3.38	0.015	0.19	0.1	0.08	15.4	0.2	<0.05	9	0.6	<0.2
991538	Soil	19	0.45	197	0.027	2	1.19	0.007	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
991539	Soil	16	0.32	226	0.027	3	1.08	0.006	0.06	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
991540	Soil	22	0.52	118	0.029	2	1.57	0.007	0.04	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
991541	Soil	14	0.25	90	0.038	2	0.89	0.007	0.04	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
991542	Soil	17	0.30	96	0.041	2	0.98	0.008	0.03	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
991543	Soil	19	0.41	97	0.049	2	1.16	0.007	0.06	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
991544	Soil	20	0.44	106	0.038	2	1.26	0.007	0.04	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
991545	Soil	20	0.46	132	0.032	1	1.53	0.007	0.08	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991546	Soil	17	0.36	203	0.021	1	1.21	0.008	0.04	<0.1	0.05	3.1	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
991547	Soil	1.0	30.9	11.5	163	0.3	22.0	9.2	805	2.76	7.1	<0.5	0.7	35	0.7	0.4	0.1	53	0.51	0.038	13
991548	Soil	0.7	12.1	9.0	138	<0.1	15.7	7.3	435	2.66	7.9	<0.5	0.6	23	0.7	0.4	0.1	54	0.23	0.031	5
991549	Soil	0.9	14.7	13.9	162	0.1	14.6	7.8	385	3.06	8.9	<0.5	0.6	14	0.4	0.4	0.2	58	0.17	0.111	4
991550	Soil	0.5	7.3	10.4	176	0.2	13.4	7.1	524	2.48	7.3	<0.5	0.5	17	0.3	0.3	0.1	52	0.17	0.060	5
991551	Soil	0.6	11.5	11.2	168	0.2	15.6	9.0	709	2.94	8.9	<0.5	0.4	19	0.5	0.3	0.1	58	0.24	0.062	5
991552	Soil	0.8	19.5	10.1	182	0.3	15.7	9.4	686	2.63	7.3	<0.5	0.5	24	2.9	0.4	0.1	50	0.47	0.041	6
991553	Soil	0.6	19.8	73.0	209	0.3	21.5	10.5	629	2.87	5.9	1.2	0.8	31	1.7	0.4	0.1	51	0.66	0.043	8
991554	Soil	0.6	17.9	7.5	142	0.2	16.3	8.5	491	2.66	5.5	<0.5	0.6	23	0.5	0.3	0.1	47	0.37	0.032	7
991555	Soil	0.6	27.8	8.5	134	0.3	24.5	10.8	650	3.00	8.3	1.7	0.8	30	1.0	0.4	0.1	52	0.66	0.041	8
991556 NS	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.
991557	Soil	0.7	29.9	8.9	202	0.3	25.3	10.2	974	2.87	6.5	0.7	0.9	35	1.2	0.5	0.2	49	0.79	0.040	8
991558	Soil	0.6	19.6	7.7	227	0.2	20.2	8.3	634	2.78	6.0	1.2	0.9	31	0.7	0.4	0.2	51	0.65	0.033	6
991559	Soil	0.6	20.6	6.9	121	0.2	18.4	7.8	420	2.26	5.6	0.6	0.6	27	0.9	0.3	0.1	45	0.46	0.026	8
991560	Soil	1.2	43.7	8.0	394	0.7	25.4	8.4	451	2.89	7.4	1.5	0.9	26	2.4	0.4	0.1	55	0.35	0.032	11
991561	Soil	0.5	16.7	6.6	201	0.2	14.0	7.3	467	2.17	4.6	<0.5	0.4	19	3.2	0.3	0.1	41	0.29	0.041	6
991562	Soil	0.9	33.6	9.9	5471	0.6	25.0	9.6	822	2.95	9.4	2.9	0.7	30	18.7	0.5	0.2	53	1.11	0.088	9
991563	Soil	0.8	11.6	6.8	324	0.2	13.1	7.7	391	2.51	5.4	<0.5	0.4	16	2.5	0.3	0.1	50	0.31	0.028	5
991564	Soil	0.8	49.0	10.3	489	0.7	26.7	11.2	894	3.07	11.4	0.6	0.7	25	8.1	0.4	0.1	58	0.44	0.041	17
991566	Soil	0.8	7.5	9.9	544	0.3	11.2	8.2	769	2.71	6.2	0.7	0.4	16	2.6	0.3	0.2	59	0.31	0.037	5
991567	Soil	0.8	71.0	13.9	1081	1.0	24.3	9.3	833	3.24	9.7	1.2	0.7	24	7.1	0.4	0.1	58	0.37	0.052	22
991568	Soil	0.6	11.9	5.7	278	0.3	10.5	4.4	299	2.19	4.5	<0.5	0.3	12	1.4	0.2	0.1	46	0.11	0.022	6
991569	Soil	0.8	15.6	11.8	512	1.0	13.8	6.8	596	3.35	10.8	<0.5	0.8	9	2.1	0.3	0.2	66	0.11	0.148	6
991570	Soil	0.9	28.5	7.4	425	0.6	23.3	11.0	1282	3.14	8.4	<0.5	0.3	25	3.5	0.3	0.1	53	0.46	0.070	8
991571	Soil	0.5	26.1	11.5	1495	0.6	18.4	12.1	1656	3.05	6.9	<0.5	0.5	18	19.4	0.3	0.2	59	0.50	0.089	5
991572	Soil	0.7	21.9	10.6	151	0.2	18.4	11.2	1062	3.66	26.5	2.2	0.6	14	0.4	0.5	0.1	70	0.31	0.041	6
991573	Soil	0.7	22.4	9.0	147	0.3	20.2	10.3	654	3.29	13.1	<0.5	0.6	16	0.3	0.4	0.2	61	0.50	0.038	6
991574	Soil	0.7	15.1	8.8	111	<0.1	18.7	10.3	662	3.04	11.5	<0.5	0.6	19	0.7	0.5	0.1	58	0.32	0.023	4
991575	Soil	0.7	15.3	8.0	241	0.2	11.9	10.0	794	2.63	15.2	<0.5	0.5	14	1.7	0.3	0.1	58	0.28	0.027	4
991576	Soil	0.7	28.1	7.9	117	0.2	18.0	9.0	541	3.12	10.7	0.9	0.6	14	0.3	0.4	0.1	59	0.26	0.024	6
991577	Soil	0.7	9.8	7.3	224	0.1	11.1	10.2	1113	2.44	5.7	<0.5	0.4	14	0.8	0.3	0.2	49	0.36	0.034	5

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991547	Soil	22	0.48	267	0.016	2	1.76	0.009	0.08	<0.1	0.05	6.4	<0.1	<0.05	5	<0.5	<0.2
991548	Soil	18	0.45	149	0.037	2	1.33	0.009	0.05	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
991549	Soil	20	0.38	128	0.020	2	1.78	0.006	0.05	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
991550	Soil	15	0.28	175	0.025	1	1.45	0.007	0.04	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
991551	Soil	19	0.37	289	0.018	2	1.76	0.006	0.06	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
991552	Soil	18	0.36	197	0.026	2	1.08	0.007	0.08	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
991553	Soil	23	0.46	250	0.016	2	1.66	0.010	0.09	<0.1	0.04	5.6	<0.1	<0.05	5	<0.5	<0.2
991554	Soil	19	0.40	178	0.021	1	1.36	0.009	0.07	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
991555	Soil	24	0.51	219	0.018	3	1.62	0.009	0.09	<0.1	0.04	6.0	<0.1	<0.05	5	<0.5	<0.2
991556 NS	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.
991557	Soil	23	0.46	229	0.016	2	1.58	0.009	0.10	<0.1	0.04	6.9	<0.1	<0.05	5	<0.5	<0.2
991558	Soil	21	0.48	211	0.021	1	1.64	0.009	0.08	<0.1	0.03	6.0	<0.1	<0.05	5	<0.5	<0.2
991559	Soil	18	0.37	164	0.028	2	1.26	0.009	0.06	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
991560	Soil	25	0.52	258	0.014	1	1.89	0.008	0.09	<0.1	0.06	6.6	<0.1	<0.05	5	<0.5	<0.2
991561	Soil	15	0.35	157	0.036	1	1.00	0.006	0.07	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
991562	Soil	23	0.43	251	0.014	4	1.95	0.010	0.08	0.1	0.06	6.0	<0.1	<0.05	5	<0.5	<0.2
991563	Soil	18	0.37	124	0.038	2	1.16	0.007	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991564	Soil	24	0.50	261	0.030	1	1.73	0.008	0.08	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
991566	Soil	18	0.30	167	0.041	2	1.18	0.007	0.06	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
991567	Soil	27	0.48	603	0.010	<1	2.40	0.006	0.07	0.1	0.07	8.4	0.1	<0.05	6	<0.5	<0.2
991568	Soil	15	0.28	153	0.019	1	1.20	0.006	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991569	Soil	23	0.36	236	0.009	1	2.41	0.005	0.06	<0.1	0.04	4.7	0.2	<0.05	8	<0.5	<0.2
991570	Soil	25	0.50	231	0.008	2	2.27	0.006	0.10	<0.1	0.05	4.2	0.1	<0.05	6	<0.5	<0.2
991571	Soil	23	0.41	339	0.022	7	2.12	0.007	0.17	<0.1	0.03	4.5	0.1	<0.05	7	<0.5	<0.2
991572	Soil	22	0.48	376	0.020	3	1.90	0.006	0.08	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
991573	Soil	23	0.53	257	0.019	3	1.92	0.008	0.07	<0.1	0.03	4.9	0.1	<0.05	6	<0.5	<0.2
991574	Soil	21	0.49	122	0.034	2	1.28	0.007	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991575	Soil	17	0.31	212	0.028	3	1.15	0.006	0.08	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
991576	Soil	23	0.47	168	0.024	2	1.69	0.006	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
991577	Soil	16	0.26	208	0.031	3	1.23	0.006	0.08	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991578	Soil	0.5	20.6	6.8	211	0.2	18.2	9.9	1096	2.99	7.5	0.6	0.6	18	0.7	0.3	0.1	54	0.51	0.031	10
991579	Soil	0.7	7.3	6.0	156	<0.1	11.8	7.5	526	2.62	6.7	<0.5	0.5	12	0.4	0.3	0.1	56	0.20	0.017	5
991580	Soil	1.2	10.3	8.4	199	0.1	9.5	9.6	2078	2.56	7.2	<0.5	0.4	15	0.8	0.3	0.1	52	0.33	0.029	4
991581	Soil	0.5	7.9	6.4	112	<0.1	13.5	7.6	235	2.87	12.6	<0.5	0.6	10	0.2	0.3	0.1	61	0.14	0.031	5
991582	Soil	0.5	9.3	6.0	111	<0.1	11.7	7.6	555	2.36	8.1	0.5	0.3	12	0.3	0.3	0.1	48	0.18	0.034	5
991583	Soil	0.6	6.7	6.2	145	<0.1	8.8	6.8	951	2.10	3.4	<0.5	0.4	13	0.9	0.3	0.1	44	0.20	0.041	5
991584	Soil	0.8	10.5	9.4	219	0.1	13.7	10.0	682	3.05	10.5	<0.5	0.5	18	0.7	0.4	0.1	64	0.34	0.036	4
991585	Soil	0.6	17.7	10.8	180	0.2	18.6	8.5	960	2.65	9.5	<0.5	0.7	22	0.5	0.4	0.1	53	0.44	0.029	8
991586	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.
991587	Soil	0.7	11.8	7.1	141	<0.1	15.3	8.7	654	2.72	8.7	0.7	0.5	22	0.4	0.4	0.1	59	0.37	0.028	4
991588	Soil	0.7	31.6	11.4	283	0.3	28.4	12.4	2307	3.24	9.5	<0.5	0.4	42	1.3	0.3	0.1	59	0.74	0.066	13
991589	Soil	0.8	61.7	10.6	270	0.3	42.1	13.9	2010	3.99	13.3	<0.5	1.1	50	0.6	0.4	0.2	69	0.85	0.087	26
991590	Soil	0.6	9.2	7.7	170	<0.1	13.7	8.0	842	2.63	7.1	<0.5	0.4	20	0.6	0.3	0.1	57	0.30	0.025	5
991591	Soil	0.9	29.5	10.1	334	0.3	26.3	11.7	3076	2.95	9.4	0.9	0.3	41	1.7	0.3	0.1	54	0.69	0.071	10
991592	Soil	0.6	35.0	8.5	180	0.1	24.5	10.8	1471	3.04	14.3	<0.5	0.4	30	0.6	0.3	0.1	58	0.34	0.053	13
991593	Soil	0.5	21.9	10.4	403	<0.1	17.6	12.2	1985	3.04	9.7	<0.5	0.3	18	1.8	0.4	0.1	60	0.22	0.063	6
991594	Soil	0.6	27.2	9.9	260	0.1	29.1	13.0	1797	2.95	11.2	<0.5	0.2	30	0.9	0.3	0.1	60	0.31	0.050	10
991595	Soil	0.6	14.0	9.8	149	<0.1	18.8	11.7	1341	2.90	15.2	<0.5	0.3	32	0.6	0.4	0.1	60	0.42	0.040	5
991596	Soil	0.8	30.0	14.3	207	0.2	28.6	13.1	1387	4.12	25.6	<0.5	0.5	32	0.4	0.3	0.2	78	0.45	0.089	7
991597	Soil	0.6	10.8	8.3	105	<0.1	17.2	8.9	923	2.64	9.8	<0.5	0.4	26	0.3	0.3	<0.1	58	0.27	0.029	5
991598	Soil	0.5	13.3	7.0	92	<0.1	18.8	8.7	607	2.77	12.3	<0.5	0.4	24	0.2	0.4	<0.1	59	0.23	0.035	5
991599	Soil	0.7	15.8	7.1	105	0.2	19.7	9.7	1349	2.74	26.4	<0.5	0.3	33	0.2	0.4	<0.1	58	0.41	0.075	5
991600	Soil	0.6	65.9	13.0	370	1.5	30.2	12.6	1629	3.70	17.5	<0.5	1.0	36	3.3	0.8	0.2	66	1.72	0.058	15
991601	Soil	0.6	40.3	7.8	237	0.4	23.5	10.7	1057	2.69	18.8	6.9	0.5	36	2.0	0.4	0.1	49	1.68	0.080	7
991602	Soil	1.1	26.3	7.8	463	0.4	14.9	9.5	1861	2.15	18.5	<0.5	0.2	49	7.1	0.3	0.1	42	1.65	0.055	4
991603	Soil	0.8	27.0	9.8	265	0.4	16.9	10.1	1327	2.65	22.2	<0.5	0.5	47	2.0	0.4	0.2	44	1.20	0.039	5
991604	Soil	0.8	12.1	8.6	292	0.4	10.8	6.3	686	2.24	5.1	<0.5	0.3	22	1.8	0.3	0.2	40	0.58	0.036	5
991605	Soil	0.8	22.8	8.9	273	0.2	17.7	8.0	673	2.61	10.6	<0.5	0.5	32	1.1	0.5	0.2	47	0.78	0.052	6
991606	Soil	1.6	47.2	13.4	328	1.2	29.4	11.6	3829	4.00	86.2	<0.5	0.6	45	2.4	0.6	0.1	56	1.55	0.096	9
991607	Soil	4.9	13.8	9.3	169	0.3	22.4	12.3	>10000	4.52	568.9	0.8	0.9	62	2.1	0.1	0.3	35	0.81	0.046	7

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991578	Soil	22	0.42	287	0.030	2	1.70	0.008	0.08	0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
991579	Soil	16	0.28	143	0.046	2	1.05	0.006	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
991580	Soil	16	0.25	291	0.035	2	0.91	0.005	0.10	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
991581	Soil	18	0.28	186	0.030	3	1.52	0.006	0.06	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
991582	Soil	16	0.28	183	0.031	2	1.11	0.005	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
991583	Soil	13	0.24	166	0.045	2	0.82	0.005	0.06	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
991584	Soil	19	0.37	221	0.032	1	1.37	0.007	0.12	0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
991585	Soil	21	0.48	232	0.028	3	1.60	0.007	0.12	<0.1	0.04	5.7	<0.1	<0.05	5	<0.5	<0.2
991586	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.
991587	Soil	18	0.39	133	0.037	2	1.17	0.006	0.06	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
991588	Soil	27	0.49	431	0.010	1	2.47	0.007	0.11	<0.1	0.05	6.4	0.1	<0.05	7	<0.5	<0.2
991589	Soil	37	0.69	547	0.011	2	3.80	0.009	0.20	0.1	0.07	15.1	0.2	<0.05	10	<0.5	<0.2
991590	Soil	17	0.29	184	0.043	2	1.04	0.007	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
991591	Soil	26	0.48	532	0.012	2	2.01	0.006	0.20	0.2	0.06	6.0	<0.1	<0.05	6	<0.5	<0.2
991592	Soil	24	0.49	248	0.017	2	1.94	0.008	0.08	<0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
991593	Soil	21	0.37	286	0.031	1	1.46	0.006	0.08	0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
991594	Soil	23	0.42	305	0.018	2	2.03	0.007	0.07	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
991595	Soil	20	0.40	246	0.025	2	1.74	0.005	0.08	<0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
991596	Soil	33	0.53	322	0.012	2	3.32	0.010	0.18	<0.1	0.04	6.3	0.1	<0.05	10	<0.5	<0.2
991597	Soil	19	0.44	184	0.037	2	1.29	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
991598	Soil	21	0.49	156	0.039	2	1.32	0.007	0.08	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
991599	Soil	21	0.36	244	0.028	2	1.62	0.007	0.06	0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
991600	Soil	29	0.53	437	0.019	5	2.52	0.014	0.12	0.2	0.07	11.6	0.1	<0.05	7	1.3	<0.2
991601	Soil	20	0.51	203	0.015	7	1.46	0.013	0.07	0.1	0.05	5.5	<0.1	0.07	4	0.7	<0.2
991602	Soil	15	0.36	242	0.024	7	0.92	0.007	0.07	<0.1	0.06	2.8	<0.1	0.06	3	<0.5	<0.2
991603	Soil	18	0.44	257	0.021	6	1.21	0.009	0.08	0.2	0.04	4.4	<0.1	0.09	4	<0.5	<0.2
991604	Soil	15	0.27	162	0.031	4	0.92	0.008	0.06	0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
991605	Soil	19	0.44	174	0.035	4	1.19	0.014	0.09	0.1	0.02	3.9	<0.1	0.15	4	<0.5	<0.2
991606	Soil	27	0.58	621	0.011	5	2.04	0.013	0.10	0.1	0.11	8.2	0.2	0.10	6	0.5	<0.2
991607	Soil	22	0.56	677	0.021	5	1.58	0.013	0.11	0.1	0.07	6.3	<0.1	0.10	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
991609	Soil	0.7	23.8	8.1	208	0.2	23.0	10.3	617	3.05	12.2	<0.5	0.9	32	1.5	0.5	0.2	49	1.33	0.048	5
991610	Soil	0.8	10.9	7.3	207	<0.1	17.8	8.7	395	2.94	9.4	<0.5	0.8	16	0.6	0.5	<0.1	53	0.31	0.014	4
991611	Soil	0.5	16.2	7.3	344	0.2	16.9	8.8	578	2.88	7.2	3.0	0.5	21	2.1	0.2	0.2	50	0.63	0.029	5
991612	Soil	0.9	49.6	16.6	2793	1.3	27.8	9.8	1561	3.07	8.5	<0.5	0.6	35	9.3	0.5	0.2	46	2.21	0.079	10
991613	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.
991614	Soil	1.6	35.1	14.5	1224	2.0	17.6	10.1	2620	2.69	8.5	<0.5	0.6	41	11.7	0.6	0.2	45	1.56	0.072	6
991615	Soil	1.1	14.0	10.6	267	0.4	12.0	9.1	2002	2.69	4.8	<0.5	0.3	18	2.8	0.2	0.2	48	0.28	0.061	6
991616	Soil	0.6	16.0	7.1	169	0.2	21.5	9.3	933	2.86	6.0	<0.5	0.3	25	1.5	0.2	0.1	53	0.33	0.053	7
991617	Soil	0.7	16.5	7.8	176	0.2	20.2	11.2	1963	2.62	5.5	<0.5	0.3	37	1.9	0.3	0.1	48	0.39	0.060	7
991618	Soil	0.5	17.2	5.3	128	0.2	20.4	7.5	470	2.71	4.9	<0.5	0.3	22	0.4	0.3	<0.1	47	0.24	0.048	7
991619	Soil	1.0	33.5	9.9	258	0.5	24.0	9.2	730	2.86	9.0	<0.5	0.6	46	1.6	0.5	0.1	44	1.61	0.069	9
991620	Soil	0.6	16.8	7.1	112	0.3	18.3	7.9	545	2.53	7.8	<0.5	0.3	49	1.1	0.3	<0.1	44	1.14	0.042	5
991621	Soil	1.1	33.1	9.3	108	0.2	25.2	11.7	828	3.08	10.0	<0.5	0.9	45	0.6	0.5	0.1	50	0.91	0.052	7
991622	Soil	0.7	24.1	8.8	139	0.3	21.8	11.3	870	3.09	7.3	<0.5	0.8	77	0.9	0.3	0.1	49	1.00	0.040	7
991623	Soil	0.8	21.9	9.2	150	0.1	23.7	12.0	987	3.14	9.2	<0.5	0.9	44	1.0	0.5	0.1	53	0.67	0.035	5
991624	Soil	0.9	40.4	11.4	318	0.6	27.2	12.0	1300	3.66	9.0	<0.5	1.1	39	2.6	0.5	0.1	57	1.44	0.053	8
991625	Soil	0.6	11.2	10.6	209	0.2	12.6	8.2	1421	2.36	6.0	<0.5	0.1	37	2.2	0.3	0.2	47	0.62	0.039	5
991626	Soil	0.9	29.0	123.0	286	0.5	29.3	9.9	1652	3.90	16.6	<0.5	1.0	19	0.6	0.7	0.1	66	0.30	0.043	7
991627	Soil	0.6	7.8	10.6	269	0.2	11.8	7.8	747	2.57	5.3	<0.5	0.3	22	1.4	0.3	<0.1	47	0.39	0.048	4
991628	Soil	2.8	16.0	14.8	2074	0.8	15.0	8.8	1068	2.87	6.2	<0.5	0.6	20	11.4	0.5	0.1	52	0.53	0.036	7
991629	Soil	0.9	14.9	16.3	217	0.3	16.3	11.3	1102	2.70	8.1	<0.5	0.5	48	0.8	0.4	0.2	48	0.64	0.035	5
991630	Soil	0.7	25.2	22.0	425	0.4	19.5	11.5	2184	2.85	8.1	<0.5	0.2	51	3.7	0.4	0.1	52	0.79	0.052	11
991631	Soil	0.9	73.5	17.0	324	0.9	38.7	12.2	1655	3.75	10.6	<0.5	0.9	39	1.1	0.5	0.2	59	0.59	0.072	26
991632	Soil	1.3	19.1	17.3	175	0.2	15.5	13.2	1271	3.69	26.5	<0.5	0.9	25	1.0	0.9	<0.1	83	0.41	0.037	6
991633	Soil	1.0	13.9	22.5	273	0.5	7.1	8.7	3506	2.44	7.4	<0.5	<0.1	36	4.7	0.4	0.2	59	0.76	0.093	4
991634	Soil	1.5	49.8	22.8	277	1.2	29.0	12.5	1786	3.44	16.6	0.8	0.8	32	4.5	0.5	0.2	60	0.89	0.064	26
991635	Soil	1.4	20.3	24.1	340	0.2	12.7	12.6	1731	3.73	21.4	<0.5	0.5	18	4.6	0.5	0.1	82	0.45	0.042	4
991636	Soil	0.7	13.0	9.6	153	<0.1	16.6	9.1	744	2.71	8.4	<0.5	0.4	20	1.2	0.4	0.1	54	0.24	0.042	6
991637	Soil	0.8	9.8	9.4	155	0.1	16.6	8.3	643	2.73	7.9	0.8	0.4	20	0.5	0.4	0.1	51	0.27	0.026	5
991638	Soil	1.0	16.3	16.5	190	0.1	17.6	9.4	720	3.25	13.4	<0.5	0.5	18	0.6	0.4	<0.1	60	0.31	0.037	5

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991609	Soil	23	0.52	231	0.013	4	1.60	0.011	0.11	<0.1	0.05	6.8	<0.1	0.14	5	0.5	<0.2
991610	Soil	20	0.44	126	0.034	2	1.27	0.008	0.04	<0.1	0.03	3.8	<0.1	0.14	4	<0.5	<0.2
991611	Soil	19	0.38	180	0.023	2	1.26	0.009	0.07	0.1	0.03	4.0	<0.1	0.05	5	<0.5	<0.2
991612	Soil	23	0.39	388	0.012	5	1.86	0.010	0.09	0.2	0.08	7.6	0.1	0.09	5	1.3	<0.2
991613	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.
991614	Soil	19	0.37	508	0.021	5	1.55	0.009	0.10	0.2	0.08	6.2	0.1	0.38	5	1.1	<0.2
991615	Soil	17	0.27	205	0.023	2	1.20	0.007	0.10	0.2	0.02	3.2	<0.1	0.10	5	<0.5	<0.2
991616	Soil	21	0.41	184	0.017	1	1.43	0.007	0.10	<0.1	0.02	3.9	<0.1	0.07	5	<0.5	<0.2
991617	Soil	21	0.41	336	0.017	2	1.44	0.007	0.09	0.1	0.03	4.2	<0.1	0.08	5	<0.5	<0.2
991618	Soil	22	0.48	153	0.016	1	1.57	0.009	0.08	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
991619	Soil	22	0.52	299	0.007	4	1.71	0.010	0.11	0.1	0.09	7.1	0.1	0.07	5	<0.5	<0.2
991620	Soil	17	0.37	188	0.018	6	1.13	0.006	0.09	<0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
991621	Soil	22	0.50	198	0.014	4	1.41	0.009	0.12	0.1	0.07	6.1	<0.1	0.09	4	0.8	<0.2
991622	Soil	23	0.52	173	0.023	9	1.56	0.021	0.09	0.2	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
991623	Soil	25	0.50	231	0.015	3	1.55	0.011	0.09	<0.1	0.05	5.9	<0.1	0.11	5	<0.5	<0.2
991624	Soil	27	0.53	296	0.013	5	2.13	0.012	0.12	0.2	0.02	8.8	0.1	<0.05	7	<0.5	<0.2
991625	Soil	15	0.30	204	0.017	2	1.09	0.006	0.09	0.1	0.05	2.2	<0.1	0.10	5	<0.5	<0.2
991626	Soil	27	0.71	194	0.015	2	2.07	0.011	0.10	<0.1	0.06	7.5	0.1	<0.05	7	<0.5	<0.2
991627	Soil	16	0.31	159	0.021	2	1.04	0.005	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
991628	Soil	20	0.38	180	0.034	3	1.52	0.008	0.06	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
991629	Soil	19	0.41	213	0.022	3	1.26	0.011	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
991630	Soil	20	0.41	320	0.023	3	1.29	0.007	0.11	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
991631	Soil	33	0.74	408	0.008	2	2.87	0.010	0.15	0.1	0.10	11.5	0.1	<0.05	8	<0.5	<0.2
991632	Soil	20	0.56	241	0.036	2	1.16	0.011	0.07	0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
991633	Soil	13	0.25	454	0.025	3	0.73	0.006	0.08	0.1	0.09	2.0	0.1	0.11	4	<0.5	<0.2
991634	Soil	27	0.53	357	0.007	2	2.23	0.008	0.11	<0.1	0.11	11.3	0.1	0.22	6	<0.5	<0.2
991635	Soil	19	0.45	242	0.042	2	1.25	0.007	0.09	0.2	0.17	4.9	0.2	0.09	6	<0.5	<0.2
991636	Soil	19	0.47	140	0.040	1	1.15	0.014	0.06	0.1	0.01	3.3	<0.1	0.09	4	<0.5	<0.2
991637	Soil	19	0.43	126	0.042	1	1.13	0.009	0.07	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
991638	Soil	21	0.51	233	0.018	1	1.55	0.007	0.06	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: October 27, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
991639	Soil	1.0	27.3	26.5	480	1.0	16.9	10.2	1436	2.60	6.5	<0.5	0.3	26	2.5	0.2	0.2	47	0.34	0.064	8
991640	Soil	1.0	15.1	11.9	469	0.2	15.7	7.2	577	2.52	6.9	2.8	0.4	15	1.8	0.4	0.1	48	0.25	0.034	7
991641	Soil	0.8	15.5	11.4	118	<0.1	15.0	8.0	386	2.88	9.3	0.6	0.4	25	0.7	0.4	0.1	55	0.26	0.063	5
991642	Soil	1.4	9.3	7.8	192	0.2	11.8	6.4	313	2.68	7.6	<0.5	0.6	11	1.0	0.4	0.1	56	0.24	0.014	4
991643	Soil	1.3	27.4	18.5	256	0.3	21.8	11.0	1622	2.90	7.9	0.6	0.6	40	2.2	0.4	0.2	51	1.11	0.034	7
991644	Soil	1.3	83.5	52.5	560	4.3	21.7	8.7	1243	3.05	10.4	1.5	0.6	47	6.0	0.6	0.2	52	1.79	0.086	11
991645	Soil	1.7	38.5	16.6	4935	1.4	14.7	12.9	2774	2.86	20.3	<0.5	0.2	51	43.7	0.4	0.3	47	1.95	0.104	17
991646	Soil	1.1	62.3	9.2	153	0.7	33.5	11.2	1122	3.11	7.3	0.6	0.9	63	2.9	0.5	0.2	49	1.43	0.055	10
991647	Soil	0.6	14.4	7.0	161	0.2	14.3	7.3	499	2.18	5.7	<0.5	0.4	37	1.1	0.3	0.1	42	0.81	0.036	4
991648	Soil	0.7	16.3	9.7	206	<0.1	20.3	10.7	662	3.33	9.3	<0.5	0.6	18	1.0	0.5	0.2	59	0.25	0.027	5
991649	Soil	0.8	31.6	7.9	264	0.3	25.3	11.0	732	3.15	7.4	0.7	0.9	26	1.6	0.3	0.1	58	0.21	0.070	11
991650	Soil	0.7	22.3	7.5	135	<0.1	19.3	8.8	437	2.97	7.5	0.8	0.8	19	0.6	0.4	0.1	53	0.15	0.037	7
991651	Soil	0.6	16.2	7.1	90	0.1	19.1	7.8	428	2.82	6.7	<0.5	0.5	20	0.3	0.4	0.1	53	0.18	0.035	6
991652	Soil	0.7	20.3	7.8	163	0.3	24.5	9.0	973	2.85	5.9	1.1	0.6	35	0.9	0.3	0.1	49	0.46	0.061	8
991653	Soil	0.8	11.5	9.1	155	0.4	10.3	6.9	541	2.31	7.4	<0.5	0.4	18	1.3	0.3	0.1	49	0.44	0.044	5
991654	Soil	1.5	34.7	11.8	1152	3.8	35.7	9.5	1337	3.31	10.9	<0.5	1.3	51	3.4	0.6	0.2	56	1.76	0.075	18
991655	Soil	1.3	40.4	9.8	841	1.4	34.2	9.6	962	3.20	10.5	1.9	0.8	62	3.7	0.9	0.1	51	2.17	0.101	13
991656	Soil	1.2	19.9	13.1	647	0.5	16.6	10.9	1027	3.01	16.4	<0.5	0.7	18	6.7	0.5	0.1	57	0.47	0.020	8
991657	Soil	1.2	41.7	14.4	1735	1.3	28.1	12.1	1577	3.30	12.0	0.8	0.9	41	9.6	0.7	0.2	57	1.28	0.044	10
991658	Soil	0.9	10.9	9.0	392	0.5	13.7	8.8	659	2.72	7.5	2.2	0.6	14	1.9	0.4	0.1	56	0.36	0.023	5
991659	Soil	3.5	124.0	54.1	482	5.7	14.3	24.8	7826	2.72	108.6	1.4	0.3	19	6.8	1.6	0.1	70	1.26	0.075	10
991660	Soil	0.6	8.8	8.2	219	<0.1	13.1	7.1	333	2.82	8.0	<0.5	0.5	12	2.0	0.4	0.1	64	0.18	0.027	5
991661	Soil	0.8	57.2	18.6	508	0.8	31.8	14.2	1529	3.55	13.9	<0.5	0.9	47	4.4	0.4	0.2	60	1.20	0.081	21
991662	Soil	1.2	29.6	14.9	547	0.5	19.2	11.8	2228	2.80	28.5	0.8	0.5	32	5.1	0.5	0.1	52	0.93	0.035	14
991663	Soil	1.5	21.1	21.5	1333	2.8	19.3	14.0	2896	3.14	14.5	1.3	0.8	30	6.2	0.5	0.2	60	0.59	0.052	8
991664	Soil	2.8	25.2	23.7	1152	2.7	11.9	14.5	2777	3.37	113.2	<0.5	0.6	36	8.4	0.5	0.2	59	0.57	0.040	5
991700	Soil	0.9	10.0	10.0	216	0.1	12.0	8.4	1016	3.01	16.2	<0.5	0.3	32	1.0	0.5	0.2	60	0.37	0.122	4
991701	Soil	0.7	21.6	8.5	111	0.2	19.9	8.8	1157	2.72	20.5	<0.5	0.4	51	1.1	0.4	<0.1	51	0.65	0.078	11
991702	Soil	0.7	6.2	5.9	72	<0.1	9.7	5.1	353	2.04	4.7	<0.5	0.4	16	0.2	0.3	0.1	47	0.15	0.027	5
991703	Soil	0.4	14.1	7.9	83	<0.1	18.3	8.4	409	2.74	11.3	1.0	0.4	23	<0.1	0.5	0.1	55	0.22	0.078	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991639	Soil	21	0.34	225	0.007	2	1.82	0.006	0.08	0.2	0.08	4.0	0.1	<0.05	6	<0.5	<0.2
991640	Soil	19	0.46	144	0.017	<1	1.36	0.007	0.04	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991641	Soil	19	0.44	138	0.023	<1	1.13	0.011	0.05	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
991642	Soil	16	0.34	109	0.026	<1	1.06	0.006	0.05	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
991643	Soil	21	0.40	254	0.016	2	1.59	0.009	0.07	0.1	0.08	5.3	<0.1	<0.05	5	<0.5	<0.2
991644	Soil	20	0.44	307	0.008	3	1.84	0.009	0.07	0.1	0.13	7.5	0.2	0.06	5	0.6	<0.2
991645	Soil	18	0.25	357	0.009	6	1.66	0.005	0.14	0.2	0.11	4.5	<0.1	0.06	6	0.6	<0.2
991646	Soil	24	0.52	347	0.009	2	1.73	0.013	0.06	<0.1	0.05	6.5	<0.1	<0.05	5	0.9	<0.2
991647	Soil	16	0.36	156	0.022	4	0.93	0.007	0.07	0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
991648	Soil	23	0.47	129	0.019	1	1.55	0.005	0.08	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991649	Soil	28	0.53	192	0.007	1	2.43	0.008	0.08	0.1	0.06	6.1	<0.1	<0.05	7	<0.5	<0.2
991650	Soil	23	0.51	123	0.014	<1	1.61	0.007	0.05	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
991651	Soil	21	0.47	122	0.017	<1	1.42	0.008	0.07	0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
991652	Soil	24	0.48	210	0.013	1	1.72	0.007	0.11	<0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2
991653	Soil	17	0.25	130	0.024	1	0.99	0.007	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
991654	Soil	31	0.52	417	0.009	5	2.74	0.009	0.18	0.1	0.15	14.5	0.1	<0.05	6	0.7	<0.2
991655	Soil	29	0.55	429	0.012	4	2.49	0.011	0.12	0.1	0.12	11.8	0.2	0.07	6	1.1	<0.2
991656	Soil	21	0.40	197	0.033	2	1.16	0.007	0.06	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
991657	Soil	26	0.48	381	0.019	3	1.97	0.011	0.09	<0.1	0.06	7.8	0.1	<0.05	6	<0.5	<0.2
991658	Soil	20	0.36	205	0.041	1	1.16	0.007	0.10	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
991659	Soil	14	0.14	1210	0.010	5	1.26	0.004	0.05	0.1	0.13	9.5	0.5	<0.05	4	0.5	<0.2
991660	Soil	19	0.38	197	0.029	2	1.20	0.010	0.06	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991661	Soil	30	0.58	472	0.007	2	2.59	0.008	0.13	<0.1	0.08	10.6	<0.1	<0.05	7	<0.5	<0.2
991662	Soil	19	0.40	604	0.026	3	1.21	0.007	0.09	<0.1	0.05	4.9	<0.1	<0.05	4	<0.5	<0.2
991663	Soil	24	0.48	299	0.026	4	1.81	0.009	0.12	<0.1	0.08	6.8	0.2	<0.05	5	<0.5	<0.2
991664	Soil	19	0.36	241	0.028	4	1.25	0.008	0.13	0.1	0.06	5.4	0.2	<0.05	4	<0.5	<0.2
991700	Soil	17	0.34	235	0.031	2	1.02	0.007	0.07	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
991701	Soil	23	0.43	287	0.023	2	1.47	0.008	0.10	0.1	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2
991702	Soil	14	0.27	103	0.037	<1	0.84	0.007	0.04	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
991703	Soil	21	0.42	147	0.031	1	1.40	0.009	0.07	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991704	Soil	0.6	16.3	9.5	63	<0.1	19.3	9.8	620	2.94	18.4	0.8	1.0	32	<0.1	0.5	0.1	55	0.26	0.050	6
991705	Soil	0.4	13.0	8.3	58	<0.1	14.6	7.2	423	2.32	14.9	0.5	0.6	31	<0.1	0.4	<0.1	46	0.28	0.046	6
991706	Soil	0.6	22.9	9.9	211	0.1	16.6	9.2	1493	2.52	7.6	<0.5	0.2	35	1.2	0.3	0.2	45	0.38	0.093	10
991707	Soil	0.8	17.3	18.2	187	0.1	18.3	9.8	1428	2.85	16.5	<0.5	0.5	29	0.8	0.4	0.1	54	0.33	0.062	8
991708	Soil	0.8	36.4	12.5	165	0.2	31.5	11.2	1115	3.41	13.9	0.7	0.7	37	0.4	0.4	0.2	60	0.38	0.066	11
991709	Soil	0.7	48.8	13.8	167	0.4	35.0	10.7	1095	3.34	11.2	0.5	0.7	55	0.6	0.4	0.1	57	0.59	0.098	17
991710	Soil	0.7	32.0	11.1	149	0.1	28.2	11.3	1305	3.02	10.7	<0.5	0.7	39	0.4	0.4	0.1	57	0.51	0.047	14
991711	Soil	0.5	13.4	9.9	90	<0.1	17.2	10.0	578	3.00	16.0	<0.5	0.5	22	0.1	0.4	0.2	57	0.21	0.029	5
991712	Soil	0.7	10.4	7.5	83	<0.1	13.5	7.7	378	2.87	8.4	3.4	0.4	15	0.4	0.3	0.1	56	0.15	0.030	4
991713	Soil	0.7	16.3	10.2	112	<0.1	18.8	9.9	498	3.17	11.9	<0.5	0.7	21	0.4	0.6	0.1	59	0.19	0.053	5
991714	Soil	0.7	33.0	10.3	139	0.2	23.8	10.9	1087	3.07	8.8	<0.5	0.8	27	0.4	0.3	0.1	58	0.47	0.029	14
991715	Soil	0.6	29.6	8.7	152	0.2	25.9	11.3	1251	3.02	8.8	<0.5	0.6	32	0.6	0.3	0.2	58	0.46	0.040	15
991716	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.
991717	Soil	0.5	11.7	8.2	155	<0.1	13.9	10.7	980	2.72	6.4	<0.5	0.4	19	0.6	0.2	0.1	55	0.39	0.032	5
991718	Soil	0.5	18.8	7.7	90	<0.1	20.4	10.4	728	3.09	8.6	<0.5	0.9	24	0.3	0.4	<0.1	60	0.29	0.020	8
991719	Soil	0.6	26.4	8.8	94	0.2	21.0	9.4	821	2.84	7.4	<0.5	0.6	23	0.2	0.4	0.2	53	0.45	0.033	17
991720	Soil	0.7	11.0	7.2	93	0.1	12.3	8.2	688	2.57	5.1	<0.5	0.6	15	0.5	0.3	0.1	51	0.29	0.023	6
991721	Soil	0.6	15.2	9.0	164	0.1	18.0	7.9	416	3.41	12.6	<0.5	0.6	13	0.4	0.4	0.1	62	0.23	0.139	4
991722	Soil	0.6	10.7	8.6	115	<0.1	14.2	9.0	536	3.02	10.2	<0.5	0.5	12	0.3	0.3	0.1	60	0.19	0.030	4
991723	Soil	0.8	27.7	10.1	365	0.6	21.7	12.3	2224	3.40	10.7	<0.5	0.5	19	1.9	0.3	0.2	66	0.42	0.049	9
991724	Soil	0.4	11.3	7.4	186	0.1	16.9	10.2	753	2.97	8.6	<0.5	0.6	14	0.6	0.3	0.1	58	0.21	0.026	5
991725	Soil	0.6	15.1	9.2	225	0.1	20.6	12.7	1777	3.34	9.0	<0.5	0.6	17	0.7	0.3	0.1	65	0.42	0.042	5
991726	Soil	0.6	15.8	9.5	134	0.3	17.9	12.4	794	3.32	29.2	<0.5	0.7	15	0.5	0.4	0.2	63	0.46	0.028	5
991727	Soil	0.5	21.7	11.6	185	0.2	21.9	12.4	1334	3.52	29.9	<0.5	0.4	14	0.8	0.4	0.2	67	0.25	0.053	5
991728	Soil	0.7	16.1	14.1	320	0.2	13.9	10.1	1139	3.11	12.8	<0.5	0.4	13	1.3	0.5	0.1	59	0.30	0.028	4
991729	Soil	0.7	43.6	13.2	393	0.8	30.3	14.1	1472	3.90	14.6	0.8	1.4	25	2.2	0.5	0.2	68	0.74	0.044	15
991730	Soil	0.4	14.2	8.9	343	0.3	17.9	10.6	739	3.10	10.6	<0.5	0.5	15	1.8	0.3	0.1	59	0.31	0.030	5
991731	Soil	0.7	18.3	9.4	333	0.3	16.5	9.9	1020	3.19	11.4	<0.5	0.4	22	4.2	0.3	0.1	53	0.64	0.050	5



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Project: ZNT  
 Report Date: October 27, 2012

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CERTIFICATE OF ANALYSIS

SMI12000492.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991704	Soil	23	0.51	192	0.035	1	1.41	0.015	0.06	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
991705	Soil	18	0.42	139	0.040	<1	1.10	0.010	0.06	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
991706	Soil	19	0.34	326	0.026	2	1.22	0.008	0.09	<0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
991707	Soil	20	0.40	250	0.025	1	1.43	0.014	0.07	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
991708	Soil	30	0.59	304	0.013	<1	2.43	0.011	0.11	<0.1	0.04	7.6	<0.1	<0.05	7	<0.5	<0.2
991709	Soil	33	0.64	372	0.008	1	2.90	0.011	0.12	<0.1	0.07	8.4	<0.1	<0.05	7	<0.5	<0.2
991710	Soil	27	0.53	304	0.013	1	2.15	0.009	0.10	<0.1	0.04	7.3	<0.1	<0.05	6	<0.5	<0.2
991711	Soil	20	0.43	170	0.035	2	1.24	0.010	0.07	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
991712	Soil	18	0.36	115	0.033	2	1.13	0.006	0.05	<0.1	0.01	2.8	<0.1	0.11	4	<0.5	<0.2
991713	Soil	21	0.46	152	0.035	2	1.41	0.008	0.06	<0.1	0.02	4.2	<0.1	0.05	5	<0.5	<0.2
991714	Soil	25	0.44	256	0.026	2	1.65	0.009	0.07	<0.1	0.04	7.8	0.1	<0.05	5	<0.5	<0.2
991715	Soil	25	0.50	314	0.023	2	1.71	0.009	0.09	<0.1	0.04	6.9	<0.1	0.06	5	<0.5	<0.2
991716	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.
991717	Soil	18	0.34	197	0.037	2	1.24	0.008	0.07	<0.1	0.02	2.9	<0.1	0.08	5	<0.5	<0.2
991718	Soil	22	0.54	207	0.044	1	1.45	0.015	0.07	0.1	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
991719	Soil	22	0.41	342	0.026	2	1.44	0.009	0.09	0.2	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
991720	Soil	16	0.27	184	0.039	1	1.02	0.007	0.06	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
991721	Soil	22	0.46	135	0.018	1	1.81	0.005	0.06	0.1	0.04	3.7	<0.1	<0.05	6	<0.5	<0.2
991722	Soil	20	0.32	146	0.023	<1	1.32	0.006	0.05	0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
991723	Soil	23	0.41	357	0.017	2	2.02	0.007	0.11	0.1	0.03	5.2	<0.1	<0.05	6	<0.5	<0.2
991724	Soil	21	0.40	267	0.035	<1	1.46	0.007	0.07	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
991725	Soil	22	0.40	601	0.039	2	1.68	0.006	0.13	0.2	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
991726	Soil	22	0.41	177	0.029	1	1.54	0.007	0.06	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
991727	Soil	23	0.45	430	0.022	2	1.83	0.005	0.12	0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
991728	Soil	19	0.35	233	0.035	2	1.19	0.006	0.07	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
991729	Soil	34	0.63	488	0.014	2	2.59	0.009	0.14	0.1	0.05	12.2	0.2	<0.05	7	<0.5	<0.2
991730	Soil	21	0.46	182	0.029	<1	1.42	0.006	0.08	0.2	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
991731	Soil	19	0.41	290	0.018	3	1.33	0.005	0.11	<0.1	0.02	4.3	<0.1	0.13	5	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
991446	Soil	0.8	31.2	14.8	176	0.5	21.9	17.3	1794	4.80	56.4	1.0	1.0	22	0.5	0.6	0.1	87	0.67	0.052	10
REP 991446	QC	0.8	33.6	15.2	180	0.4	22.0	18.6	1853	4.93	59.6	0.6	1.0	23	0.5	0.6	0.2	96	0.71	0.057	10
991465	Soil	0.5	14.3	9.4	159	0.1	20.9	9.0	803	2.67	9.4	<0.5	0.4	34	0.5	0.4	<0.1	55	0.53	0.058	8
REP 991465	QC	0.5	14.7	9.6	156	0.1	20.2	8.7	793	2.57	9.3	<0.5	0.3	35	0.6	0.3	<0.1	54	0.51	0.057	9
991482	Soil	0.5	16.3	9.3	115	0.1	19.5	9.4	582	2.95	14.1	1.9	1.0	24	0.2	0.5	0.1	56	0.30	0.031	6
REP 991482	QC	0.5	16.6	9.2	113	0.1	20.0	9.8	582	2.95	14.6	0.6	1.0	25	0.3	0.4	0.1	58	0.29	0.033	7
991514	Soil	0.5	10.2	7.8	92	<0.1	14.1	7.9	481	2.92	18.3	<0.5	0.5	17	0.6	0.4	0.1	56	0.53	0.028	4
REP 991514	QC	0.6	10.4	7.8	87	<0.1	14.6	7.6	466	2.92	18.5	<0.5	0.5	17	0.5	0.3	0.1	56	0.51	0.028	4
991533	Soil	1.2	35.2	8.6	185	0.4	24.7	8.7	594	2.99	8.4	0.9	0.7	47	1.9	0.4	0.2	51	1.23	0.049	7
REP 991533	QC	1.0	34.5	8.6	193	0.4	23.6	8.3	569	2.93	8.0	<0.5	0.7	44	1.7	0.5	0.2	51	1.22	0.049	7
991552	Soil	0.8	19.5	10.1	182	0.3	15.7	9.4	686	2.63	7.3	<0.5	0.5	24	2.9	0.4	0.1	50	0.47	0.041	6
REP 991552	QC	0.8	19.1	10.0	183	0.3	14.8	9.4	707	2.67	7.4	0.8	0.5	24	2.5	0.4	0.1	52	0.46	0.040	6
991571	Soil	0.5	26.1	11.5	1495	0.6	18.4	12.1	1656	3.05	6.9	<0.5	0.5	18	19.4	0.3	0.2	59	0.50	0.089	5
REP 991571	QC	0.5	26.4	11.0	1512	0.6	18.5	12.1	1691	3.05	7.7	<0.5	0.5	18	18.6	0.3	0.2	60	0.53	0.098	6
991590	Soil	0.6	9.2	7.7	170	<0.1	13.7	8.0	842	2.63	7.1	<0.5	0.4	20	0.6	0.3	0.1	57	0.30	0.025	5
REP 991590	QC	0.5	9.1	7.7	166	<0.1	13.4	7.5	781	2.53	6.7	<0.5	0.4	20	0.5	0.3	0.1	57	0.29	0.025	5
991607	Soil	4.9	13.8	9.3	169	0.3	22.4	12.3	>10000	4.52	568.9	0.8	0.9	62	2.1	0.1	0.3	35	0.81	0.046	7
REP 991607	QC	4.1	13.6	9.2	177	0.4	22.7	13.0	>10000	4.58	574.5	<0.5	0.9	62	1.5	0.2	0.2	34	0.81	0.047	7
991627	Soil	0.6	7.8	10.6	269	0.2	11.8	7.8	747	2.57	5.3	<0.5	0.3	22	1.4	0.3	<0.1	47	0.39	0.048	4
REP 991627	QC	0.5	7.7	10.6	268	0.3	12.7	7.9	738	2.60	5.6	1.1	0.3	21	1.5	0.3	0.1	48	0.38	0.046	4
991644	Soil	1.3	83.5	52.5	560	4.3	21.7	8.7	1243	3.05	10.4	1.5	0.6	47	6.0	0.6	0.2	52	1.79	0.086	11
REP 991644	QC	1.1	82.7	50.3	552	4.3	21.5	8.9	1240	3.09	10.7	1.7	0.5	48	6.2	0.7	0.2	52	1.76	0.083	11
991663	Soil	1.5	21.1	21.5	1333	2.8	19.3	14.0	2896	3.14	14.5	1.3	0.8	30	6.2	0.5	0.2	60	0.59	0.052	8
REP 991663	QC	1.4	21.1	20.9	1343	2.8	19.2	14.1	2873	3.14	14.6	<0.5	0.7	32	6.3	0.4	0.2	59	0.59	0.050	8
991715	Soil	0.6	29.6	8.7	152	0.2	25.9	11.3	1251	3.02	8.8	<0.5	0.6	32	0.6	0.3	0.2	58	0.46	0.040	15
REP 991715	QC	0.9	30.0	8.8	153	0.3	26.5	11.3	1329	3.12	9.0	<0.5	0.5	32	0.6	0.4	0.2	57	0.46	0.042	16
991731	Soil	0.7	18.3	9.4	333	0.3	16.5	9.9	1020	3.19	11.4	<0.5	0.4	22	4.2	0.3	0.1	53	0.64	0.050	5
REP 991731	QC	0.4	19.2	9.7	365	0.3	16.1	9.8	1061	3.18	12.4	<0.5	0.4	24	3.7	0.6	0.1	57	0.72	0.052	5

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
991446	Soil	24	0.44	532	0.017	3	1.77	0.007	0.14	0.1	0.07	13.4	0.1	<0.05	5	<0.5	<0.2
REP 991446	QC	25	0.47	568	0.027	3	1.88	0.007	0.16	0.2	0.08	13.4	<0.1	<0.05	6	0.9	<0.2
991465	Soil	21	0.42	247	0.039	2	1.32	0.008	0.12	<0.1	0.02	4.0	<0.1	0.07	4	<0.5	<0.2
REP 991465	QC	20	0.42	251	0.036	3	1.27	0.008	0.12	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
991482	Soil	22	0.49	149	0.054	2	1.21	0.016	0.09	<0.1	0.03	5.7	<0.1	<0.05	4	<0.5	<0.2
REP 991482	QC	22	0.50	149	0.054	2	1.25	0.011	0.10	0.1	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2
991514	Soil	18	0.39	192	0.024	3	1.17	0.005	0.09	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
REP 991514	QC	18	0.38	187	0.025	2	1.16	0.006	0.08	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
991533	Soil	23	0.45	272	0.011	3	1.76	0.009	0.07	0.1	0.06	6.9	<0.1	<0.05	5	0.6	<0.2
REP 991533	QC	23	0.44	280	0.018	4	1.68	0.009	0.08	0.1	0.06	6.7	<0.1	<0.05	5	<0.5	<0.2
991552	Soil	18	0.36	197	0.026	2	1.08	0.007	0.08	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
REP 991552	QC	18	0.36	192	0.025	2	1.09	0.007	0.07	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
991571	Soil	23	0.41	339	0.022	7	2.12	0.007	0.17	<0.1	0.03	4.5	0.1	<0.05	7	<0.5	<0.2
REP 991571	QC	24	0.44	347	0.022	6	2.20	0.008	0.18	<0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
991590	Soil	17	0.29	184	0.043	2	1.04	0.007	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
REP 991590	QC	17	0.32	185	0.040	2	1.11	0.006	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
991607	Soil	22	0.56	677	0.021	5	1.58	0.013	0.11	0.1	0.07	6.3	<0.1	0.10	5	<0.5	<0.2
REP 991607	QC	22	0.54	675	0.022	5	1.56	0.013	0.11	<0.1	0.07	6.6	0.1	0.09	5	<0.5	<0.2
991627	Soil	16	0.31	159	0.021	2	1.04	0.005	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
REP 991627	QC	16	0.31	156	0.023	3	1.02	0.007	0.09	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
991644	Soil	20	0.44	307	0.008	3	1.84	0.009	0.07	0.1	0.13	7.5	0.2	0.06	5	0.6	<0.2
REP 991644	QC	20	0.42	305	0.008	3	1.79	0.009	0.07	<0.1	0.12	7.4	0.2	<0.05	5	0.5	<0.2
991663	Soil	24	0.48	299	0.026	4	1.81	0.009	0.12	<0.1	0.08	6.8	0.2	<0.05	5	<0.5	<0.2
REP 991663	QC	24	0.46	302	0.023	3	1.90	0.009	0.11	<0.1	0.07	6.8	0.2	<0.05	5	<0.5	<0.2
991715	Soil	25	0.50	314	0.023	2	1.71	0.009	0.09	<0.1	0.04	6.9	<0.1	0.06	5	<0.5	<0.2
REP 991715	QC	26	0.51	339	0.022	2	1.79	0.009	0.09	<0.1	0.05	7.1	<0.1	0.12	5	<0.5	<0.2
991731	Soil	19	0.41	290	0.018	3	1.33	0.005	0.11	<0.1	0.02	4.3	<0.1	0.13	5	<0.5	<0.2
REP 991731	QC	19	0.40	301	0.027	3	1.42	0.005	0.13	0.2	0.03	4.3	0.1	<0.05	5	<0.5	<0.2

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 Vancouver BC V6E 4H1 Canada

Project: ZNT  
 Report Date: October 27, 2012

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000492.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
Reference Materials		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS9	Standard	13.6	110.5	116.7	307	1.8	41.0	7.8	591	2.34	25.4	117.6	6.9	74	2.4	5.4	6.0	44	0.75	0.082	15
STD DS9	Standard	13.6	106.8	123.3	304	1.9	39.3	7.4	598	2.39	24.1	123.4	6.7	73	2.3	5.5	6.3	41	0.74	0.083	14
STD DS9	Standard	13.6	111.0	124.0	310	1.9	40.4	8.0	600	2.37	26.1	125.6	6.4	77	2.5	5.8	6.9	43	0.74	0.080	13
STD DS9	Standard	13.5	106.6	126.2	294	1.8	38.1	7.5	573	2.26	24.6	111.3	6.9	76	2.4	6.0	7.1	43	0.68	0.079	15
STD DS9	Standard	13.0	104.6	129.1	304	1.8	38.1	7.2	591	2.32	26.5	147.7	6.5	66	2.4	5.4	6.2	40	0.75	0.078	14
STD DS9	Standard	13.3	108.9	130.0	315	2.1	40.2	7.3	625	2.37	26.3	117.0	6.4	74	2.4	6.3	6.8	41	0.74	0.080	14
STD DS9	Standard	12.8	109.5	128.4	311	1.8	40.3	7.4	587	2.34	24.6	112.7	6.1	72	2.5	5.4	6.3	40	0.70	0.082	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
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QUALITY CONTROL REPORT

SMI12000492.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																	
STD DS9	Standard	123	0.68	301	0.121	3	0.98	0.086	0.41	3.1	0.21	2.8	5.4	0.19	5	5.1	4.9
STD DS9	Standard	120	0.67	311	0.114	2	0.96	0.091	0.41	3.0	0.21	2.8	5.5	<0.05	5	5.0	5.0
STD DS9	Standard	123	0.63	301	0.122	3	0.95	0.097	0.42	3.0	0.24	2.7	5.6	0.16	5	4.9	4.9
STD DS9	Standard	120	0.59	304	0.130	2	0.91	0.088	0.40	3.1	0.19	2.7	5.5	0.13	4	5.4	4.9
STD DS9	Standard	117	0.66	308	0.108	3	0.99	0.096	0.40	2.9	0.20	2.8	5.5	0.15	5	6.4	4.9
STD DS9	Standard	126	0.65	321	0.115	3	0.97	0.105	0.43	3.3	0.27	3.0	5.6	0.21	5	5.1	5.4
STD DS9	Standard	116	0.64	306	0.111	2	0.95	0.086	0.39	3.1	0.20	2.6	5.6	0.23	5	6.2	5.3
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	0.06	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 23, 2012

Report Date: November 02, 2012

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# CERTIFICATE OF ANALYSIS

# SMI12000504.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-06\_201210  
P.O. Number: QZM-ZNT-06  
Number of Samples: 300

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	299	Dry at 60C			SMI
SS80	299	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	292	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

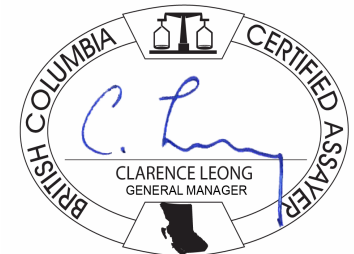
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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





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Project: ZNT  
 Report Date: November 02, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000504.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991665	Soil	0.8	19.1	8.3	151	0.1	18.0	8.8	816	2.46	8.3	5.2	0.5	50	1.2	0.4	44	0.74	0.043	5	
991666	Soil	0.9	38.1	8.4	176	0.3	24.8	10.6	983	2.92	18.3	3.1	0.5	59	2.0	0.5	45	1.55	0.045	7	
991667	Soil	1.0	64.4	9.2	341	0.7	30.3	10.4	1063	3.16	11.6	4.4	0.8	57	3.1	0.7	48	1.39	0.064	11	
991668	Soil	0.8	15.4	8.6	155	<0.1	19.2	9.6	489	2.96	11.3	2.9	0.8	21	0.4	0.4	54	0.35	0.025	5	
991669	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991670	Soil	0.5	63.2	8.3	208	0.6	28.3	9.0	819	2.79	16.0	3.1	0.6	50	3.1	0.5	42	1.68	0.069	10	
991671	Soil	0.7	73.2	9.1	187	0.6	30.8	9.8	811	2.93	8.4	1.3	0.6	67	3.2	0.6	44	1.78	0.052	10	
991672	Soil	0.8	22.3	8.8	138	0.2	18.5	10.9	773	2.86	9.1	1.4	0.9	37	0.8	0.5	51	0.71	0.034	5	
991673	Soil	0.7	18.1	7.5	149	0.1	12.3	7.3	246	2.44	7.4	2.2	0.4	32	1.3	0.4	<0.1	48	0.54	0.026	4
991674	Soil	0.4	39.1	7.2	246	0.4	25.2	8.6	484	2.81	6.5	2.6	0.6	64	1.5	0.4	45	1.56	0.063	7	
991675	Soil	0.6	20.5	8.3	186	<0.1	17.6	11.4	587	2.87	9.6	1.3	0.7	42	1.0	0.5	<0.1	53	0.59	0.036	4
991676	Soil	0.6	68.5	10.0	190	0.6	39.4	10.8	826	4.45	18.8	3.8	1.5	55	1.4	0.8	74	1.18	0.054	13	
991677	Soil	0.6	35.6	11.0	194	0.2	28.3	12.4	1070	3.83	12.0	2.1	1.4	33	0.5	0.5	66	0.47	0.042	9	
991678	Soil	0.6	14.4	6.6	159	0.1	13.1	7.7	542	2.49	4.3	1.5	0.7	27	1.1	0.4	<0.1	50	0.37	0.052	6
991679	Soil	0.6	15.8	7.0	131	<0.1	17.7	9.1	488	2.98	7.1	2.5	0.7	27	0.5	0.4	<0.1	54	0.29	0.056	6
991680	Soil	0.6	41.7	9.1	170	0.2	29.3	11.5	879	3.59	11.1	3.1	0.9	39	0.6	0.5	<0.1	65	0.50	0.052	11
991681	Soil	0.7	29.6	31.3	231	0.2	24.8	10.1	910	3.46	13.7	1.1	1.1	37	0.7	0.5	<0.1	61	0.45	0.038	8
991682	Soil	0.7	32.3	10.2	124	0.2	23.0	9.2	642	2.77	10.4	1.2	0.9	50	1.4	0.4	50	0.84	0.078	8	
991683	Soil	0.7	47.8	11.7	189	0.4	32.7	12.7	960	3.88	17.7	3.6	1.2	55	1.0	0.6	66	0.88	0.067	13	
991684	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.
991685	Soil	0.8	35.4	14.2	259	0.3	28.3	11.6	911	3.77	15.8	0.5	0.9	45	1.6	0.6	<0.1	67	0.53	0.088	11
991686	Soil	0.6	26.9	9.0	129	0.2	25.7	9.3	620	3.18	14.7	1.1	0.7	41	0.4	0.5	<0.1	59	0.55	0.051	8
991687	Soil	0.9	54.8	15.7	438	0.4	38.1	17.2	1963	4.57	21.4	2.1	1.3	65	1.4	0.7	80	0.92	0.108	8	
991688	Soil	1.2	18.6	10.8	474	0.2	13.6	9.9	2725	2.57	6.6	0.6	0.2	59	2.3	0.4	49	0.69	0.098	5	
991689	Soil	0.6	16.5	8.7	62	<0.1	18.7	10.1	601	3.05	11.3	2.7	0.8	37	0.1	0.5	<0.1	57	0.33	0.046	5
991690	Soil	0.5	18.8	9.5	80	<0.1	19.8	9.9	757	2.98	12.2	1.2	0.9	37	0.2	0.7	<0.1	56	0.40	0.032	7
991691	Soil	0.6	16.9	7.5	116	<0.1	17.4	8.0	502	2.77	10.5	1.0	0.8	27	0.3	0.4	<0.1	55	0.34	0.025	7
991692	Soil	0.6	36.8	11.5	147	0.2	33.0	11.6	885	3.69	13.1	1.6	0.9	43	0.5	0.6	<0.1	64	0.51	0.063	13
991693	Soil	0.6	41.8	11.2	108	0.2	30.3	11.6	922	3.56	15.9	0.8	0.9	56	0.3	0.5	<0.1	63	0.56	0.070	15
991694	Soil	0.8	36.9	11.0	104	0.2	28.0	10.8	856	3.35	13.7	2.3	0.9	51	0.3	0.5	<0.1	60	0.44	0.058	13

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



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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

SMI12000504.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991665	Soil	18	0.41	160	0.021	6	1.12	0.006	0.09	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
991666	Soil	22	0.52	249	0.011	6	1.43	0.009	0.08	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
991667	Soil	24	0.59	254	0.013	8	1.84	0.013	0.10	<0.1	0.03	6.6	<0.1	<0.05	5	1.0	<0.2
991668	Soil	21	0.47	128	0.035	4	1.38	0.006	0.07	0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
991669	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
991670	Soil	22	0.56	261	0.013	5	1.60	0.013	0.08	<0.1	0.03	5.9	<0.1	<0.05	4	0.7	<0.2
991671	Soil	21	0.57	260	0.012	6	1.53	0.011	0.08	<0.1	0.05	5.4	<0.1	<0.05	5	<0.5	<0.2
991672	Soil	22	0.54	134	0.022	5	1.48	0.010	0.08	<0.1	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
991673	Soil	16	0.28	122	0.024	4	1.03	0.006	0.04	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
991674	Soil	26	0.55	331	0.015	5	1.96	0.016	0.08	<0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
991675	Soil	21	0.49	137	0.033	3	1.30	0.009	0.06	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
991676	Soil	38	0.71	448	0.020	4	2.75	0.016	0.12	0.1	0.02	13.0	<0.1	<0.05	8	<0.5	<0.2
991677	Soil	30	0.64	293	0.020	3	2.20	0.012	0.11	0.1	0.03	9.5	<0.1	<0.05	7	<0.5	<0.2
991678	Soil	18	0.33	180	0.043	2	1.00	0.007	0.07	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
991679	Soil	21	0.44	158	0.041	3	1.22	0.007	0.07	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
991680	Soil	31	0.61	269	0.021	2	1.95	0.009	0.11	<0.1	0.02	9.1	<0.1	<0.05	6	<0.5	<0.2
991681	Soil	27	0.58	273	0.024	2	1.92	0.013	0.09	<0.1	0.02	8.7	<0.1	<0.05	6	<0.5	<0.2
991682	Soil	23	0.51	247	0.021	3	1.55	0.009	0.10	0.1	0.05	6.1	<0.1	<0.05	5	<0.5	<0.2
991683	Soil	33	0.76	381	0.012	2	2.71	0.015	0.12	<0.1	0.05	12.5	<0.1	<0.05	7	<0.5	<0.2
991684	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.
991685	Soil	31	0.60	290	0.024	1	2.10	0.011	0.12	0.1	0.03	9.5	<0.1	<0.05	6	<0.5	<0.2
991686	Soil	27	0.60	190	0.027	3	1.89	0.016	0.09	<0.1	0.03	7.4	<0.1	<0.05	6	<0.5	<0.2
991687	Soil	43	0.77	441	0.022	5	3.12	0.014	0.20	0.2	0.02	13.7	0.1	<0.05	10	0.8	<0.2
991688	Soil	17	0.32	401	0.040	3	0.97	0.007	0.11	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
991689	Soil	22	0.61	145	0.058	1	1.38	0.015	0.08	0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
991690	Soil	23	0.52	146	0.049	<1	1.27	0.011	0.08	0.1	0.02	5.8	<0.1	<0.05	5	<0.5	<0.2
991691	Soil	20	0.42	148	0.049	1	1.24	0.010	0.05	0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
991692	Soil	33	0.65	296	0.026	3	2.26	0.014	0.13	<0.1	0.03	10.2	<0.1	<0.05	7	<0.5	<0.2
991693	Soil	30	0.67	288	0.023	1	2.13	0.012	0.12	<0.1	0.05	10.5	<0.1	<0.05	6	0.6	<0.2
991694	Soil	29	0.66	237	0.030	2	1.85	0.011	0.11	<0.1	0.03	8.2	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991695	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.
991696	Soil	0.6	8.3	8.0	108	<0.1	14.8	7.5	464	2.68	6.9	0.7	0.4	27	0.2	0.4	<0.1	54	0.25	0.046	5
991697	Soil	0.6	38.4	9.0	137	0.4	31.9	9.7	891	3.30	13.7	1.3	0.9	65	0.7	0.7	0.3	58	0.98	0.068	13
991698	Soil	0.6	42.0	8.4	110	0.2	27.8	7.9	551	2.85	10.4	5.4	0.9	63	0.4	0.6	0.2	50	1.09	0.069	12
991699	Soil	0.5	17.0	6.9	87	<0.1	18.9	8.4	657	2.70	7.2	1.5	0.6	28	0.2	0.4	<0.1	52	0.24	0.030	7
991732	Soil	1.0	47.7	8.6	190	0.6	21.4	7.4	1260	2.60	45.7	1.5	0.3	72	1.6	0.8	0.1	39	2.12	0.105	8
991733	Soil	0.8	36.4	8.7	188	0.3	17.2	7.4	1155	2.07	26.9	1.3	0.3	59	1.9	0.4	<0.1	36	1.71	0.076	5
991734	Soil	1.5	51.0	12.1	348	0.4	30.7	16.3	2971	3.73	53.2	<0.5	0.7	46	3.0	0.6	0.2	53	1.17	0.051	7
991735	Soil	0.7	29.5	1.4	135	0.2	7.6	1.3	330	0.28	3.3	0.6	<0.1	107	1.5	0.4	<0.1	4	4.13	0.093	1
991736	Soil	1.2	43.4	7.6	243	0.3	21.5	8.2	1146	2.16	13.9	<0.5	0.3	66	2.5	0.6	<0.1	34	2.13	0.060	6
991737	Soil	0.7	47.6	5.3	137	0.4	26.9	5.0	578	1.48	4.1	<0.5	0.3	68	2.3	0.7	<0.1	23	2.45	0.115	9
991738	Soil	0.7	85.9	8.6	326	0.8	55.2	11.7	922	3.66	6.4	<0.5	1.2	65	3.6	0.6	0.2	55	1.77	0.089	20
991739	Soil	0.8	51.9	8.4	153	0.5	39.3	10.4	774	3.25	7.5	1.0	0.9	49	1.9	0.4	0.1	54	1.09	0.057	9
991740	Soil	0.7	38.3	8.3	128	0.5	28.3	10.1	647	2.64	6.8	<0.5	0.6	52	2.4	0.4	0.1	44	1.38	0.051	7
991741	Soil	0.7	14.6	7.2	81	0.1	16.9	7.4	375	2.25	6.8	0.9	0.4	37	0.9	0.3	<0.1	41	0.64	0.050	5
991742	Soil	0.7	28.2	6.9	152	0.2	19.7	5.6	489	1.66	4.6	<0.5	0.2	72	3.0	0.3	0.1	31	1.25	0.069	9
991743	Soil	0.8	26.2	9.9	299	0.2	18.8	10.9	1556	2.82	7.1	4.6	0.3	28	1.9	0.4	0.1	50	0.36	0.046	4
991744	Soil	0.8	36.6	4.4	280	0.3	18.8	4.5	342	1.43	7.9	<0.5	0.2	77	2.2	0.5	0.2	23	3.09	0.089	6
991745	Soil	0.8	43.1	7.0	164	0.5	24.5	6.9	604	2.20	6.9	<0.5	0.4	56	1.9	0.6	<0.1	35	2.07	0.115	13
991746	Soil	1.0	51.9	6.9	170	0.5	27.3	6.5	1303	1.82	4.3	<0.5	0.3	87	3.3	0.4	<0.1	28	2.32	0.084	5
991747	Soil	0.9	36.5	1.2	97	0.2	13.0	0.9	277	0.16	<0.5	<0.5	0.1	138	1.4	0.6	<0.1	8	4.64	0.095	2
991748	Soil	0.7	50.8	9.1	196	0.4	28.5	9.0	751	2.66	5.6	<0.5	0.6	56	2.4	0.4	0.2	44	1.25	0.055	10
991749	Soil	0.6	26.6	6.3	164	0.2	10.8	6.5	637	1.41	3.3	<0.5	0.2	74	1.7	0.2	<0.1	31	1.30	0.039	3
991750	Soil	1.1	58.1	5.9	204	0.7	24.9	6.0	1532	1.43	3.2	1.4	0.1	92	2.9	0.3	0.1	22	3.00	0.105	8
991752	Soil	0.7	41.0	8.7	143	0.4	26.0	8.5	1017	2.75	7.0	0.5	0.5	54	1.3	0.3	<0.1	48	0.87	0.070	11
991753	Soil	1.0	67.1	11.5	158	0.9	40.4	9.9	769	3.05	8.3	<0.5	0.7	80	1.2	0.4	<0.1	48	1.05	0.093	29
991754	Soil	1.5	50.8	12.8	221	0.5	34.9	9.6	1719	2.73	5.9	1.0	0.6	89	2.3	0.4	<0.1	45	1.19	0.120	31
991755	Soil	1.2	52.0	20.9	217	0.6	29.5	9.6	1107	2.84	8.1	<0.5	0.6	61	3.0	0.4	<0.1	49	0.86	0.097	34
991756	Soil	0.8	32.2	12.3	165	0.3	19.8	8.2	924	2.36	6.6	<0.5	0.2	52	1.8	0.5	<0.1	43	0.72	0.061	15
991757	Soil	1.0	42.0	14.9	367	0.6	28.5	9.9	810	3.13	9.8	0.9	0.7	44	2.4	0.6	0.1	52	1.39	0.066	11

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CERTIFICATE OF ANALYSIS

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991695	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.
991696	Soil	19	0.40	130	0.048	2	1.13	0.010	0.09	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
991697	Soil	31	0.64	297	0.015	2	2.33	0.014	0.14	0.1	0.05	10.5	0.1	<0.05	6	0.7	<0.2
991698	Soil	24	0.58	226	0.023	4	1.83	0.013	0.12	0.2	0.02	8.0	<0.1	<0.05	6	<0.5	<0.2
991699	Soil	21	0.47	138	0.038	2	1.29	0.009	0.07	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
991732	Soil	20	0.48	384	0.009	7	1.42	0.010	0.10	<0.1	0.10	4.7	<0.1	0.06	4	0.9	<0.2
991733	Soil	17	0.41	305	0.010	6	1.12	0.012	0.07	<0.1	0.09	3.9	<0.1	0.14	4	<0.5	<0.2
991734	Soil	23	0.53	415	0.013	<1	1.59	0.013	0.06	0.1	0.03	6.2	<0.1	<0.05	4	1.0	<0.2
991735	Soil	3	0.21	242	0.002	17	0.18	0.004	0.02	<0.1	0.11	0.5	<0.1	0.24	<1	1.1	<0.2
991736	Soil	16	0.40	284	0.008	6	1.10	0.012	0.06	<0.1	0.07	3.1	<0.1	0.12	3	1.3	<0.2
991737	Soil	12	0.30	316	0.004	5	1.07	0.007	0.05	<0.1	0.14	2.8	<0.1	0.16	2	1.0	<0.2
991738	Soil	32	0.63	447	0.004	<1	2.82	0.017	0.11	<0.1	0.07	9.7	<0.1	<0.05	7	1.8	<0.2
991739	Soil	26	0.52	300	0.009	<1	1.80	0.012	0.08	0.1	0.03	6.4	<0.1	<0.05	6	1.1	<0.2
991740	Soil	20	0.41	242	0.013	2	1.35	0.007	0.07	0.1	0.05	4.8	<0.1	<0.05	4	0.5	<0.2
991741	Soil	16	0.39	119	0.019	<1	1.00	0.008	0.07	0.1	0.04	2.9	<0.1	<0.05	3	1.0	<0.2
991742	Soil	12	0.31	217	0.008	3	0.84	0.006	0.07	0.1	0.06	2.5	<0.1	0.06	3	0.9	<0.2
991743	Soil	20	0.36	305	0.020	<1	1.09	0.006	0.09	<0.1	0.02	3.0	<0.1	<0.05	4	1.0	<0.2
991744	Soil	12	0.30	230	0.007	4	0.83	0.008	0.05	<0.1	0.10	2.0	<0.1	0.14	2	1.1	<0.2
991745	Soil	19	0.37	320	0.006	<1	1.48	0.010	0.06	0.1	0.14	5.2	<0.1	0.11	3	2.1	<0.2
991746	Soil	15	0.37	345	0.009	3	1.02	0.009	0.06	<0.1	0.08	3.3	<0.1	0.10	3	0.8	<0.2
991747	Soil	2	0.18	182	0.002	12	0.11	0.010	0.02	<0.1	0.10	0.3	<0.1	0.25	<1	<0.5	<0.2
991748	Soil	18	0.35	309	0.013	<1	1.46	0.009	0.05	<0.1	0.05	6.0	<0.1	<0.05	4	1.2	<0.2
991749	Soil	11	0.22	184	0.020	4	0.57	0.007	0.05	0.1	0.06	1.8	<0.1	<0.05	3	<0.5	<0.2
991750	Soil	10	0.28	302	0.007	6	0.84	0.009	0.05	0.2	0.09	1.7	<0.1	0.14	2	1.6	<0.2
991752	Soil	21	0.49	261	0.007	<1	1.63	0.007	0.11	<0.1	0.04	5.6	<0.1	<0.05	5	<0.5	<0.2
991753	Soil	27	0.66	418	0.003	<1	2.55	0.010	0.14	<0.1	0.10	9.9	0.1	<0.05	6	0.6	<0.2
991754	Soil	24	0.55	482	0.007	2	2.21	0.008	0.15	<0.1	0.08	9.0	<0.1	<0.05	5	<0.5	<0.2
991755	Soil	23	0.52	465	0.009	<1	2.21	0.011	0.11	0.1	0.09	8.3	0.1	<0.05	5	1.4	<0.2
991756	Soil	16	0.42	252	0.014	2	1.17	0.007	0.08	<0.1	0.04	3.8	<0.1	<0.05	3	0.5	<0.2
991757	Soil	25	0.51	341	0.009	<1	1.92	0.010	0.10	0.1	0.07	8.1	0.1	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	1
991758	Soil		1.3	22.6	24.6	375	0.2	12.7	11.6	3185	3.45	10.9	<0.5	0.5	37	5.3	0.5	0.2	73	0.54	0.087	7
991759	Soil		1.1	27.2	22.5	274	0.3	17.7	11.0	1223	3.65	18.8	<0.5	0.6	36	1.8	0.6	0.1	82	0.56	0.117	7
991760	Soil		0.7	11.4	14.7	190	0.3	9.3	9.4	1281	3.17	12.6	<0.5	0.6	17	1.6	0.5	0.1	73	0.27	0.114	6
991761	Soil		0.9	26.3	19.0	113	0.4	16.4	13.7	1487	2.81	10.5	1.1	0.3	40	1.2	0.4	<0.1	52	0.78	0.077	6
991762	Soil		1.1	38.4	20.3	132	1.0	25.5	12.6	1124	3.21	13.1	0.7	0.5	52	3.9	0.5	0.1	61	0.83	0.067	16
991763	Soil		1.2	31.9	23.9	229	0.3	23.9	12.8	803	4.05	20.9	<0.5	0.9	26	1.0	0.7	<0.1	91	0.57	0.094	8
991764	Soil		1.3	29.6	33.3	277	0.5	9.6	13.7	3166	4.03	17.9	2.0	0.2	18	1.7	0.5	0.2	97	0.36	0.086	5
991765	Soil		0.7	17.0	13.6	220	0.2	11.5	10.1	1781	3.27	14.7	1.2	0.6	22	2.1	0.6	0.1	74	0.40	0.127	6
991766	Soil		1.2	17.4	22.5	480	0.4	10.5	13.4	3187	3.47	7.9	<0.5	0.3	31	7.9	0.4	0.2	75	0.27	0.094	5
991767	Soil		1.3	29.2	21.0	384	0.4	25.8	9.3	1190	3.07	8.7	<0.5	0.4	66	2.1	0.4	0.1	55	0.69	0.043	10
991768	Soil		3.2	34.1	34.1	410	0.5	23.7	11.4	1839	3.47	9.5	0.8	0.4	60	3.7	0.5	0.2	52	1.12	0.057	7
991769	Soil		1.3	14.8	45.5	277	0.2	14.2	11.8	1788	2.85	3.9	1.1	0.3	26	1.7	0.3	0.1	55	0.48	0.043	6
991770	Soil		0.8	8.6	10.2	329	0.1	15.6	7.7	666	2.55	4.7	1.1	0.4	15	1.8	0.2	0.1	50	0.21	0.043	5
991771	Soil		0.9	6.9	8.8	156	<0.1	8.5	4.5	266	2.25	5.0	<0.5	0.1	20	0.7	0.3	0.3	44	0.19	0.050	4
991772	Soil		0.8	16.8	10.2	217	0.2	17.6	8.8	1056	2.67	8.7	<0.5	0.3	38	2.8	0.4	0.3	48	0.41	0.057	6
991773	Soil		1.0	60.5	12.9	368	0.9	32.1	10.8	1597	3.64	9.5	1.2	0.8	45	3.3	0.7	0.3	53	1.17	0.074	12
991774	Soil		0.6	51.2	9.2	187	1.2	31.8	8.4	765	2.93	8.2	<0.5	0.8	52	1.9	0.5	0.2	45	0.76	0.054	13
991775	Soil		0.8	37.8	7.9	132	0.7	25.3	7.6	677	2.52	6.4	<0.5	0.5	62	1.3	0.4	0.2	43	0.83	0.057	14
991776	Soil		0.7	46.4	8.0	151	0.6	24.8	8.1	868	2.44	6.9	15.7	0.3	115	2.2	0.4	0.2	37	1.85	0.066	8
991777	Soil		1.1	82.3	8.0	164	0.9	36.4	7.8	887	2.72	6.2	<0.5	0.5	78	3.2	0.7	0.6	39	2.03	0.082	16
991778	Soil		0.6	10.2	6.2	185	<0.1	12.2	7.2	770	2.11	5.1	<0.5	0.2	28	1.7	0.3	0.1	41	0.56	0.043	4
991779	Soil		0.7	19.3	8.2	206	0.1	19.0	8.8	750	2.66	7.5	<0.5	0.4	37	1.5	0.4	0.1	45	0.48	0.069	5
991780	Soil		0.8	22.5	7.7	89	0.1	22.2	9.1	586	2.80	7.2	1.7	0.4	23	0.4	0.4	0.1	49	0.24	0.035	8
991781	Soil		0.6	42.8	7.3	152	0.5	34.0	8.4	751	2.68	5.1	<0.5	0.8	72	1.7	0.3	0.2	40	1.33	0.062	18
991782	Soil		0.6	16.2	8.3	106	0.1	20.8	9.9	596	2.89	7.3	<0.5	0.9	23	0.4	0.4	0.1	51	0.44	0.024	6
991783	Soil		1.0	21.0	13.0	101	<0.1	23.1	10.7	592	3.58	14.9	4.5	0.7	22	0.4	0.6	<0.1	60	0.42	0.042	5
991784	Soil		1.4	40.2	15.3	238	0.4	24.7	12.8	2235	3.23	12.6	<0.5	0.4	45	1.2	0.5	0.1	51	0.98	0.084	10
991785	Soil		0.9	22.7	9.8	231	0.2	18.5	9.0	780	2.67	9.4	<0.5	0.4	32	1.7	0.4	<0.1	44	0.84	0.054	5
991786	Soil		1.0	44.0	10.5	234	0.3	31.0	11.9	1065	3.36	9.8	<0.5	1.3	37	2.0	0.5	0.2	57	0.80	0.033	9
991787	Soil		0.7	17.6	8.3	202	<0.1	17.6	9.8	722	2.91	8.1	<0.5	0.4	24	1.3	0.4	0.1	50	0.49	0.047	5

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991758	Soil	19	0.36	529	0.032	2	1.15	0.008	0.11	0.3	0.11	4.7	0.1	<0.05	5	<0.5	<0.2
991759	Soil	22	0.55	338	0.038	3	1.40	0.011	0.10	0.1	0.05	4.8	0.1	<0.05	5	0.7	<0.2
991760	Soil	16	0.32	284	0.040	1	0.86	0.007	0.10	<0.1	0.01	3.5	<0.1	<0.05	4	0.6	<0.2
991761	Soil	18	0.39	290	0.015	3	1.09	0.009	0.09	<0.1	0.08	4.4	<0.1	<0.05	4	0.6	<0.2
991762	Soil	22	0.48	437	0.009	1	1.61	0.010	0.08	0.1	0.06	6.4	<0.1	<0.05	5	<0.5	<0.2
991763	Soil	26	0.69	244	0.043	<1	1.85	0.011	0.12	0.1	0.05	6.0	0.1	<0.05	5	0.8	<0.2
991764	Soil	18	0.30	398	0.024	2	1.24	0.007	0.08	0.2	0.06	3.6	0.1	<0.05	7	<0.5	<0.2
991765	Soil	17	0.38	330	0.040	1	0.89	0.009	0.10	<0.1	0.02	4.4	<0.1	<0.05	4	1.2	<0.2
991766	Soil	16	0.29	445	0.042	1	0.93	0.007	0.07	0.2	0.03	3.3	<0.1	<0.05	6	0.6	<0.2
991767	Soil	21	0.46	251	0.017	3	1.53	0.009	0.08	0.2	0.05	5.1	<0.1	<0.05	5	<0.5	<0.2
991768	Soil	19	0.39	306	0.012	4	1.40	0.007	0.09	0.1	0.05	4.6	<0.1	<0.05	5	0.7	<0.2
991769	Soil	17	0.26	217	0.022	3	1.18	0.006	0.08	0.1	0.02	3.1	<0.1	<0.05	5	0.6	<0.2
991770	Soil	17	0.36	141	0.025	2	1.29	0.006	0.06	0.1	0.01	2.8	<0.1	<0.05	4	1.1	<0.2
991771	Soil	13	0.23	138	0.011	4	0.87	0.005	0.05	0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
991772	Soil	18	0.42	201	0.026	4	1.16	0.006	0.08	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
991773	Soil	24	0.50	358	0.011	5	1.89	0.011	0.10	0.1	0.08	8.6	0.1	<0.05	6	0.8	<0.2
991774	Soil	22	0.51	303	0.005	3	1.80	0.009	0.09	0.1	0.07	7.5	<0.1	<0.05	6	0.6	<0.2
991775	Soil	20	0.45	296	0.006	4	1.52	0.007	0.08	<0.1	0.05	5.4	<0.1	<0.05	5	<0.5	<0.2
991776	Soil	17	0.39	226	0.009	6	1.30	0.011	0.05	<0.1	0.05	3.9	<0.1	<0.05	4	0.9	<0.2
991777	Soil	19	0.42	304	0.007	4	1.65	0.012	0.06	0.2	0.05	5.7	0.1	<0.05	4	1.5	<0.2
991778	Soil	15	0.29	145	0.024	4	0.91	0.005	0.07	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
991779	Soil	19	0.43	221	0.022	2	1.12	0.005	0.09	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
991780	Soil	21	0.44	127	0.022	1	1.23	0.007	0.08	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
991781	Soil	26	0.54	302	0.004	1	2.19	0.010	0.14	<0.1	0.05	9.5	<0.1	<0.05	6	0.8	<0.2
991782	Soil	23	0.46	167	0.026	1	1.42	0.010	0.07	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
991783	Soil	23	0.50	125	0.025	2	1.46	0.010	0.09	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
991784	Soil	20	0.43	374	0.016	3	1.44	0.007	0.11	<0.1	0.07	5.7	<0.1	<0.05	5	0.6	<0.2
991785	Soil	18	0.41	190	0.018	3	1.24	0.007	0.11	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
991786	Soil	27	0.52	254	0.013	3	1.86	0.008	0.11	<0.1	0.05	8.6	<0.1	<0.05	6	<0.5	<0.2
991787	Soil	21	0.40	192	0.028	3	1.08	0.006	0.08	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991788	Soil	1.5	38.9	10.1	431	0.5	24.5	10.0	1435	3.16	84.0	0.7	0.5	53	2.4	0.6	<0.1	48	1.31	0.069	8
991789	Soil	1.2	52.6	9.0	222	0.5	21.4	8.7	1402	3.08	25.4	<0.5	0.7	47	1.4	0.5	0.1	49	0.61	0.041	7
991790	Soil	1.0	74.4	8.1	335	0.9	22.2	7.2	1648	2.33	45.6	<0.5	0.3	69	3.1	0.5	0.1	34	2.64	0.095	6
991791	Soil	1.4	57.5	11.7	258	1.1	24.7	9.4	2115	3.28	89.5	1.0	0.5	51	2.0	0.8	0.1	49	1.35	0.097	8
991792	Soil	0.8	34.2	8.3	183	0.4	29.0	11.2	837	3.22	7.6	7.7	1.6	48	0.6	0.5	0.1	59	0.76	0.051	11
991793	Soil	0.4	11.9	6.5	91	<0.1	13.3	7.3	421	2.25	4.4	<0.5	0.6	31	0.4	0.3	0.1	44	0.44	0.018	6
991794	Soil	1.1	29.8	8.3	235	0.3	19.6	9.6	1436	2.43	12.9	<0.5	0.5	52	1.6	0.4	0.1	38	1.52	0.055	5
991795	Soil	0.8	33.2	8.0	263	0.3	27.0	9.7	937	2.94	8.8	0.9	0.7	67	1.8	0.5	0.1	46	1.71	0.065	7
991796	Soil	1.2	54.5	6.8	277	0.5	27.3	7.8	1700	2.18	9.1	<0.5	0.3	91	3.4	0.5	0.1	34	2.27	0.111	9
991797	Soil	0.5	16.9	7.6	170	<0.1	16.4	8.2	415	2.70	6.0	<0.5	0.6	28	0.8	0.4	0.1	50	0.48	0.029	5
991800	Soil	1.1	91.3	19.8	186	0.8	47.1	11.0	681	3.87	12.2	1.3	1.2	87	2.3	0.7	0.2	60	0.87	0.097	18
991801	Soil	0.8	14.9	17.0	261	0.2	13.2	11.2	1283	3.07	7.7	<0.5	0.3	30	1.9	0.3	0.1	59	0.30	0.081	5
991802	Soil	0.8	24.6	17.0	163	0.1	19.0	12.8	955	3.79	15.1	0.6	0.6	20	0.8	0.5	<0.1	73	0.25	0.053	5
991803	Soil	0.8	11.9	17.0	180	0.2	11.6	11.3	1019	3.72	19.0	7.0	0.4	19	0.6	0.5	<0.1	83	0.32	0.136	5
991804	Soil	0.8	31.4	21.9	238	0.4	19.1	14.8	1698	3.77	26.0	<0.5	0.8	32	1.3	0.7	<0.1	73	0.55	0.065	8
991805	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.
991806 NS	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.
991807	Soil	1.1	36.0	13.4	205	0.4	25.0	9.3	656	3.30	11.7	<0.5	0.9	30	1.0	0.5	0.1	59	0.53	0.037	9
991808	Soil	1.3	58.8	15.9	167	0.5	30.5	11.2	859	3.73	11.7	0.6	0.7	36	1.5	0.5	0.2	61	0.40	0.057	13
991809	Soil	1.1	86.3	15.4	201	0.9	45.8	13.2	1041	3.63	10.1	5.3	0.9	82	2.9	0.5	0.2	57	0.82	0.119	22
991810	Soil	0.7	23.0	13.4	129	0.1	19.0	10.9	611	3.20	10.9	1.2	0.8	31	0.4	0.6	<0.1	59	0.35	0.033	8
991811	Soil	0.8	22.2	9.6	106	0.1	19.5	9.0	565	2.98	8.7	1.8	0.5	33	0.4	0.4	0.1	57	0.38	0.038	7
991812	Soil	0.9	15.0	8.5	99	<0.1	17.8	7.8	301	3.01	9.9	1.3	0.7	27	0.3	0.5	<0.1	60	0.29	0.023	5
991813	Soil	0.9	33.6	9.6	89	0.2	27.4	10.4	557	3.38	10.1	1.4	0.8	57	0.6	0.6	0.1	54	1.06	0.043	8
991814	Soil	0.7	22.3	10.2	134	0.2	20.6	10.2	669	3.07	9.0	1.1	0.8	46	0.8	0.4	0.1	58	0.71	0.027	6
991815	Soil	0.8	17.1	8.8	114	0.1	19.5	9.4	452	2.92	9.6	0.7	0.6	36	0.8	0.4	0.1	51	0.81	0.031	6
991816	Soil	0.8	33.5	10.0	207	0.3	24.6	9.6	862	2.83	6.1	1.0	0.7	50	1.2	0.4	0.1	47	1.11	0.044	6
991817	Soil	0.7	19.1	8.2	116	0.1	20.9	8.5	427	2.82	6.2	1.4	0.9	34	0.6	0.5	0.1	53	0.50	0.026	7
991818	Soil	0.7	18.9	6.8	144	0.2	23.3	8.3	577	2.73	7.1	0.7	0.4	30	0.6	0.4	0.1	52	0.32	0.045	7
991819	Soil	0.7	15.3	7.6	92	<0.1	19.7	7.6	384	2.93	9.6	1.6	0.4	23	0.2	0.5	<0.1	55	0.26	0.052	6

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CERTIFICATE OF ANALYSIS

SMI12000504.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991788	Soil	22	0.52	290	0.012	4	1.55	0.013	0.08	<0.1	0.08	6.2	<0.1	<0.05	5	0.6	<0.2
991789	Soil	22	0.47	221	0.026	3	1.49	0.011	0.08	<0.1	0.05	6.6	<0.1	<0.05	5	<0.5	<0.2
991790	Soil	20	0.42	420	0.009	5	1.45	0.010	0.08	<0.1	0.08	5.3	<0.1	0.10	4	1.1	<0.2
991791	Soil	25	0.54	385	0.010	3	1.89	0.011	0.11	0.1	0.12	7.4	<0.1	<0.05	5	1.3	<0.2
991792	Soil	30	0.62	251	0.039	2	2.09	0.015	0.12	0.1	0.05	10.8	0.1	<0.05	6	<0.5	<0.2
991793	Soil	17	0.32	103	0.037	1	0.96	0.007	0.06	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
991794	Soil	20	0.45	268	0.015	4	1.28	0.011	0.08	<0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
991795	Soil	24	0.58	254	0.010	2	1.77	0.012	0.10	<0.1	0.03	6.6	<0.1	<0.05	5	<0.5	<0.2
991796	Soil	18	0.45	365	0.008	7	1.34	0.011	0.07	0.1	0.07	4.5	<0.1	0.08	4	0.6	<0.2
991797	Soil	20	0.36	157	0.025	1	1.19	0.007	0.06	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
991800	Soil	36	0.69	421	0.007	<1	2.77	0.010	0.20	0.1	0.02	12.3	0.1	<0.05	8	1.1	<0.2
991801	Soil	18	0.34	195	0.025	2	1.13	0.006	0.09	0.2	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
991802	Soil	23	0.52	202	0.022	<1	1.50	0.006	0.09	0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
991803	Soil	19	0.37	250	0.030	<1	0.99	0.007	0.06	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
991804	Soil	20	0.58	334	0.027	2	1.42	0.012	0.08	<0.1	0.03	7.7	<0.1	<0.05	5	<0.5	<0.2
991805	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.
991806 NS	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.
991807	Soil	25	0.56	232	0.019	<1	1.83	0.010	0.10	<0.1	0.05	7.4	<0.1	<0.05	6	<0.5	<0.2
991808	Soil	30	0.57	268	0.010	<1	2.09	0.009	0.12	<0.1	0.02	7.8	<0.1	<0.05	7	<0.5	<0.2
991809	Soil	32	0.80	406	0.008	2	3.13	0.013	0.17	0.2	0.11	10.5	<0.1	<0.05	8	1.6	<0.2
991810	Soil	22	0.51	136	0.040	<1	1.26	0.008	0.07	0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
991811	Soil	22	0.52	155	0.021	2	1.38	0.009	0.07	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
991812	Soil	20	0.46	131	0.038	2	1.16	0.010	0.05	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
991813	Soil	25	0.56	206	0.013	<1	1.67	0.013	0.09	<0.1	0.04	6.6	<0.1	<0.05	5	0.8	<0.2
991814	Soil	22	0.44	172	0.027	2	1.28	0.010	0.06	<0.1	0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
991815	Soil	21	0.46	176	0.025	<1	1.40	0.009	0.06	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
991816	Soil	24	0.51	269	0.017	2	1.61	0.013	0.08	<0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
991817	Soil	23	0.46	185	0.026	1	1.46	0.010	0.07	0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
991818	Soil	24	0.53	155	0.026	<1	1.59	0.008	0.08	<0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
991819	Soil	22	0.52	103	0.031	2	1.32	0.007	0.06	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
991820	Soil	0.9	32.0	11.6	208	0.4	26.8	11.2	861	3.79	11.9	2.6	0.9	41	0.9	0.6	<0.1	60	1.08	0.057	9
991821	Soil	0.8	35.3	11.6	185	0.4	27.7	10.1	675	3.51	11.8	1.6	0.9	49	1.0	0.5	0.1	57	1.03	0.057	10
991822	Soil	0.8	31.4	11.5	139	0.2	30.2	11.5	733	4.14	12.0	1.6	1.4	41	0.6	0.6	0.1	60	0.62	0.064	11
991823	Soil	0.6	23.2	9.4	117	0.1	23.8	10.4	650	3.07	10.2	0.9	1.0	32	0.4	0.6	0.1	56	0.44	0.040	7
991824	Soil	0.7	32.9	7.8	143	0.3	26.5	9.0	708	2.98	8.2	1.7	0.7	53	0.7	0.5	<0.1	53	0.77	0.069	9
991825	Soil	0.6	19.6	9.1	151	0.1	19.5	10.2	758	2.79	5.9	0.5	0.8	35	0.8	0.5	0.1	49	0.72	0.025	5
991826	Soil	1.0	22.9	11.0	129	<0.1	23.6	13.0	764	3.51	12.2	12.7	1.4	26	0.5	0.5	<0.1	59	0.52	0.022	7
991827	Soil	1.1	29.2	8.2	141	0.2	24.4	9.9	509	2.83	9.6	2.4	0.6	48	1.2	0.5	<0.1	47	1.34	0.032	7
991828	Soil	0.9	20.4	11.2	129	<0.1	21.6	11.5	781	4.27	28.0	1.1	1.3	35	0.4	0.6	0.1	60	0.65	0.036	5
991829 NS	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.
991830	Soil	0.7	57.9	8.7	278	0.5	28.0	8.9	918	2.63	23.5	1.3	0.5	75	3.2	0.5	<0.1	38	2.49	0.076	6
991831	Soil	0.4	18.3	7.7	80	0.1	20.0	8.7	569	2.60	6.2	1.0	1.0	30	0.3	0.4	<0.1	50	0.39	0.038	7
991832	Soil	0.6	17.8	9.3	197	<0.1	19.4	10.4	982	2.98	8.6	1.8	0.7	46	0.9	0.5	<0.1	57	0.51	0.076	5
991833	Soil	0.6	16.5	7.6	144	<0.1	20.9	10.0	744	2.91	7.6	2.3	0.7	38	0.5	0.4	<0.1	58	0.44	0.047	7
991834	Soil	0.8	25.6	10.6	142	0.1	22.6	11.1	829	3.09	10.2	2.0	0.8	38	0.5	0.5	<0.1	61	0.36	0.048	7
991835	Soil	0.5	58.6	10.7	216	0.6	38.6	10.0	532	3.74	10.1	<0.5	1.1	48	1.2	0.4	0.1	58	0.55	0.111	16
991836	Soil	0.5	22.9	9.0	101	0.2	21.9	9.5	486	3.04	12.2	2.4	1.1	48	0.4	0.5	<0.1	57	0.61	0.051	9
991837	Soil	0.5	16.1	9.3	171	0.1	18.5	7.7	482	2.82	10.7	2.9	0.9	38	0.5	0.4	<0.1	55	0.47	0.037	7
991838	Soil	0.9	57.8	19.7	339	0.6	40.9	15.4	1505	5.48	25.7	2.4	1.5	68	2.4	0.6	0.2	77	0.92	0.100	10
991839	Soil	0.9	66.8	15.0	448	0.7	49.4	14.9	1196	5.53	14.4	0.6	1.9	78	2.6	0.5	0.2	78	0.97	0.141	12
991840	Soil	0.6	47.7	15.6	455	0.6	37.3	13.1	1038	4.92	11.8	0.7	1.3	69	2.7	0.6	0.2	68	1.27	0.075	12
991841	Soil	0.6	32.9	7.9	198	0.2	16.6	8.4	434	2.78	5.6	<0.5	0.7	35	3.6	0.3	0.1	64	0.47	0.025	5
991842	Soil	0.7	59.8	8.4	431	0.4	30.8	11.4	903	2.99	7.2	0.7	0.6	75	3.9	0.6	0.1	49	1.75	0.077	8
991843	Soil	1.0	53.3	11.4	656	1.0	36.4	12.6	1541	4.12	11.2	1.9	1.2	65	4.7	0.4	0.2	59	1.48	0.087	11
991844	Soil	0.6	17.5	9.7	362	0.1	18.0	10.5	1561	2.66	5.7	0.9	0.5	36	1.9	0.3	<0.1	50	0.52	0.087	5
991845	Soil	0.4	13.9	9.5	44	0.2	16.9	7.1	219	2.09	4.7	1.9	0.7	72	0.4	0.2	0.2	43	1.50	0.036	4
991846	Soil	0.6	36.7	10.9	271	0.3	26.2	13.3	1138	3.25	9.0	1.1	0.9	55	2.2	0.6	0.1	50	1.40	0.058	5
991847	Soil	0.9	27.0	10.2	327	0.2	22.7	13.1	1317	3.14	10.6	2.1	0.6	54	2.0	0.4	0.1	48	1.56	0.058	5
991848	Soil	0.8	22.8	10.3	89	<0.1	20.6	9.9	449	3.25	9.9	2.1	1.0	26	0.3	0.5	<0.1	62	0.41	0.021	6
991849	Soil	0.7	15.4	8.4	114	<0.1	18.8	10.2	530	3.05	8.6	<0.5	0.8	36	0.4	0.4	<0.1	57	0.42	0.036	5

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Project: ZNT  
 Report Date: November 02, 2012

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
991820	Soil	27	0.56	285	0.016	2	1.91	0.012	0.09	<0.1	0.06	8.1	<0.1	<0.05	6	0.6	<0.2
991821	Soil	26	0.57	293	0.011	2	1.98	0.012	0.09	0.1	0.08	8.2	<0.1	<0.05	6	<0.5	<0.2
991822	Soil	27	0.63	228	0.018	1	1.99	0.011	0.13	<0.1	0.04	8.9	<0.1	<0.05	6	0.5	<0.2
991823	Soil	24	0.57	158	0.030	1	1.60	0.010	0.10	<0.1	0.03	6.3	<0.1	<0.05	5	<0.5	<0.2
991824	Soil	25	0.57	230	0.011	2	1.89	0.010	0.12	<0.1	0.04	7.0	<0.1	<0.05	5	<0.5	<0.2
991825	Soil	22	0.46	185	0.029	2	1.40	0.009	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
991826	Soil	27	0.57	177	0.039	2	1.72	0.011	0.09	<0.1	0.02	6.7	<0.1	<0.05	5	<0.5	<0.2
991827	Soil	23	0.47	208	0.024	3	1.35	0.010	0.06	<0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
991828	Soil	26	0.57	216	0.018	2	1.78	0.014	0.09	<0.1	0.02	8.0	<0.1	<0.05	6	<0.5	<0.2
991829 NS	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.
991830	Soil	21	0.53	364	0.019	8	1.51	0.014	0.09	<0.1	0.07	5.8	<0.1	0.08	4	0.8	<0.2
991831	Soil	23	0.52	153	0.050	1	1.35	0.012	0.08	<0.1	0.02	5.6	<0.1	<0.05	4	<0.5	<0.2
991832	Soil	21	0.50	211	0.058	2	1.21	0.010	0.11	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
991833	Soil	23	0.52	162	0.056	2	1.41	0.011	0.07	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
991834	Soil	24	0.55	189	0.049	1	1.53	0.012	0.08	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
991835	Soil	31	0.70	314	0.018	2	2.54	0.014	0.14	<0.1	0.05	10.8	<0.1	<0.05	6	<0.5	<0.2
991836	Soil	26	0.60	219	0.034	1	1.78	0.017	0.09	0.1	0.05	8.2	<0.1	<0.05	5	<0.5	<0.2
991837	Soil	23	0.55	194	0.044	<1	1.43	0.013	0.06	<0.1	0.04	7.1	<0.1	<0.05	5	<0.5	<0.2
991838	Soil	37	0.76	407	0.013	2	3.34	0.017	0.17	0.1	0.04	14.5	<0.1	<0.05	9	<0.5	<0.2
991839	Soil	41	0.81	616	0.015	4	3.55	0.021	0.23	<0.1	0.03	14.8	0.1	<0.05	11	<0.5	<0.2
991840	Soil	32	0.74	418	0.017	3	2.81	0.020	0.12	0.1	0.06	11.5	0.1	<0.05	8	<0.5	<0.2
991841	Soil	18	0.25	260	0.049	2	1.02	0.008	0.04	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991842	Soil	23	0.66	279	0.015	5	1.80	0.015	0.09	0.1	0.04	7.0	<0.1	<0.05	5	1.3	<0.2
991843	Soil	30	0.67	350	0.014	4	2.56	0.016	0.12	0.1	0.05	11.3	0.1	<0.05	6	<0.5	<0.2
991844	Soil	19	0.43	248	0.039	3	1.25	0.008	0.08	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991845	Soil	18	0.40	137	0.010	<1	1.30	0.011	0.04	0.1	0.04	4.4	<0.1	0.05	4	<0.5	<0.2
991846	Soil	25	0.63	224	0.017	5	1.71	0.014	0.09	0.1	0.04	6.4	<0.1	<0.05	5	1.2	<0.2
991847	Soil	22	0.59	228	0.015	6	1.58	0.013	0.09	<0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2
991848	Soil	24	0.49	125	0.032	3	1.46	0.008	0.05	0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
991849	Soil	22	0.51	125	0.044	2	1.25	0.009	0.08	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
991850	Soil	0.6	21.2	9.4	108	0.2	23.7	10.2	648	2.99	7.4	<0.5	0.6	40	0.4	0.3	<0.1	53	0.37	0.045	8
991851	Soil	0.6	19.0	8.0	105	0.1	20.9	8.1	534	2.62	5.3	<0.5	0.4	32	0.3	0.3	0.1	50	0.29	0.035	8
991852	Soil	0.5	21.0	7.4	83	0.1	21.8	8.4	517	2.60	7.5	<0.5	0.5	32	0.8	0.3	0.1	50	0.27	0.035	8
991854	Soil	0.6	21.5	7.3	84	0.2	23.8	8.8	514	2.77	6.8	<0.5	0.5	40	0.4	0.4	<0.1	51	0.37	0.053	11
991855	Soil	0.5	21.4	7.4	68	<0.1	24.9	9.3	502	2.93	6.9	<0.5	0.7	32	0.3	0.4	0.1	54	0.31	0.039	8
991856	Soil	0.5	19.5	8.3	93	<0.1	18.9	9.5	611	2.93	6.4	<0.5	0.5	30	0.5	0.3	<0.1	56	0.26	0.037	8
991857	Soil	0.6	28.1	10.9	160	0.2	26.4	11.5	1216	3.15	6.6	<0.5	0.3	44	0.6	0.3	0.2	55	0.42	0.069	12
991858	Soil	0.7	20.2	12.9	139	0.2	22.3	12.0	1599	3.10	7.6	<0.5	0.2	60	1.0	0.4	0.1	55	0.56	0.084	6
991859	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.
991860	Soil	0.6	25.0	10.9	109	0.1	25.9	11.3	794	3.15	7.5	0.6	0.4	35	0.5	0.4	<0.1	56	0.36	0.057	10
991861	Soil	0.8	23.6	11.1	122	0.1	24.5	11.3	861	3.07	7.6	1.0	0.5	31	0.5	0.4	0.1	55	0.32	0.051	8
991862	Soil	0.7	20.6	11.8	159	0.2	24.5	11.8	906	3.09	6.3	<0.5	0.4	33	1.1	0.3	0.1	57	0.34	0.084	6
991863	Soil	0.8	25.3	9.7	122	0.2	27.3	10.2	876	3.15	8.5	4.9	0.5	54	0.4	0.5	<0.1	59	0.58	0.065	9
991864	Soil	0.6	26.5	11.5	109	0.1	27.4	11.7	952	3.20	9.7	<0.5	0.7	34	0.5	0.5	0.1	56	0.38	0.060	9
991865	Soil	0.8	24.3	12.1	139	<0.1	26.3	11.8	929	3.32	10.1	1.0	0.4	40	1.1	0.5	<0.1	57	0.44	0.059	8
991866	Soil	0.7	12.7	9.8	152	<0.1	17.3	8.7	498	2.96	8.4	<0.5	0.5	27	0.7	0.4	<0.1	59	0.30	0.029	5
991867	Soil	0.5	9.3	7.6	170	0.1	12.2	7.6	455	2.36	5.1	<0.5	0.5	32	0.7	0.3	0.1	51	0.36	0.038	5
991868	Soil	0.7	23.5	9.5	93	0.1	21.4	9.7	494	3.06	10.1	0.9	0.6	36	0.8	0.4	<0.1	58	0.41	0.029	7
991869	Soil	1.0	36.4	19.8	179	0.4	30.0	10.8	542	3.83	14.4	<0.5	1.0	50	0.7	0.4	0.2	69	0.73	0.079	9
991870	Soil	0.8	42.3	14.5	133	0.3	27.9	9.4	629	3.05	10.5	<0.5	0.8	66	1.3	0.4	0.1	56	0.92	0.062	12
991873	Soil	0.7	24.7	11.3	186	0.1	22.3	9.6	581	3.07	8.5	<0.5	0.5	39	0.8	0.4	<0.1	59	0.64	0.044	7
991874	Soil	0.6	26.9	16.2	163	0.1	21.7	10.3	735	3.13	9.5	<0.5	0.8	41	1.1	0.5	0.2	60	0.64	0.037	7
991875	Soil	1.1	66.0	21.0	234	0.8	30.1	8.1	586	3.21	16.4	<0.5	0.8	99	1.5	0.8	<0.1	55	1.73	0.126	15
991876	Soil	0.9	59.2	29.4	271	0.6	31.7	11.8	914	3.68	20.0	<0.5	0.8	67	1.8	0.6	0.1	66	1.13	0.092	12
991877	Soil	1.1	51.9	34.6	244	0.6	28.1	11.8	844	3.66	24.7	<0.5	0.9	44	1.4	0.7	0.1	66	0.68	0.091	13
991878	Soil	0.9	63.8	29.4	242	0.5	29.1	10.5	861	3.27	18.4	<0.5	0.8	61	2.4	0.6	0.1	57	0.87	0.086	12
991879	Soil	1.0	64.0	26.5	278	0.5	38.4	12.3	1116	3.51	13.7	<0.5	1.0	67	3.6	0.5	0.1	61	0.98	0.053	13
991880	Soil	0.9	20.5	20.7	174	<0.1	19.5	10.2	552	3.14	11.9	<0.5	0.7	32	0.8	0.5	<0.1	60	0.47	0.026	5
991881	Soil	0.8	21.2	16.7	206	0.1	18.0	10.0	651	3.02	7.9	<0.5	0.5	34	1.5	0.4	0.2	59	0.36	0.033	6
991882	Soil	1.1	20.1	14.6	141	<0.1	18.6	9.7	694	2.87	10.3	3.8	0.4	32	0.6	0.4	0.1	58	0.37	0.036	6

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Project: ZNT  
 Report Date: November 02, 2012

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991850	Soil	25	0.63	149	0.021	1	1.68	0.011	0.10	<0.1	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2
991851	Soil	25	0.55	144	0.021	<1	1.51	0.009	0.10	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
991852	Soil	22	0.50	127	0.029	<1	1.30	0.008	0.08	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
991854	Soil	21	0.54	141	0.027	<1	1.51	0.010	0.09	<0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
991855	Soil	23	0.55	126	0.036	2	1.42	0.010	0.08	0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
991856	Soil	22	0.47	140	0.032	<1	1.37	0.008	0.08	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
991857	Soil	24	0.51	213	0.018	<1	1.70	0.009	0.11	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
991858	Soil	19	0.43	197	0.019	<1	1.27	0.006	0.10	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991859	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.
991860	Soil	25	0.57	150	0.024	<1	1.60	0.009	0.10	0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
991861	Soil	24	0.53	156	0.029	<1	1.52	0.009	0.10	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
991862	Soil	25	0.47	204	0.016	<1	1.85	0.009	0.09	0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
991863	Soil	26	0.62	205	0.024	<1	1.81	0.010	0.11	0.1	0.05	6.3	<0.1	<0.05	5	<0.5	<0.2
991864	Soil	24	0.57	140	0.032	<1	1.51	0.011	0.09	<0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
991865	Soil	24	0.58	177	0.030	<1	1.53	0.009	0.09	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
991866	Soil	20	0.45	128	0.037	<1	1.17	0.009	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991867	Soil	17	0.33	212	0.035	<1	0.98	0.006	0.08	<0.1	0.02	2.8	<0.1	<0.05	4	0.6	<0.2
991868	Soil	22	0.50	125	0.032	<1	1.27	0.008	0.07	<0.1	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
991869	Soil	32	0.73	333	0.011	<1	2.42	0.012	0.11	<0.1	0.09	10.3	<0.1	<0.05	7	<0.5	<0.2
991870	Soil	26	0.60	309	0.014	<1	1.83	0.010	0.10	0.1	0.08	8.0	<0.1	<0.05	5	0.7	<0.2
991873	Soil	25	0.52	246	0.024	1	1.66	0.010	0.08	<0.1	0.02	5.2	<0.1	<0.05	5	0.6	<0.2
991874	Soil	26	0.59	237	0.028	<1	1.58	0.011	0.08	0.1	0.04	5.9	0.1	<0.05	5	<0.5	<0.2
991875	Soil	28	0.67	508	0.012	2	2.28	0.011	0.12	0.1	0.17	10.6	0.2	0.14	6	<0.5	<0.2
991876	Soil	31	0.72	436	0.012	1	2.38	0.012	0.11	0.2	0.14	11.1	0.1	0.06	6	<0.5	<0.2
991877	Soil	31	0.62	366	0.013	1	2.24	0.009	0.12	0.1	0.12	11.5	0.1	<0.05	6	<0.5	<0.2
991878	Soil	28	0.57	424	0.010	1	1.96	0.010	0.09	<0.1	0.10	9.4	<0.1	0.06	5	0.9	<0.2
991879	Soil	30	0.63	415	0.015	<1	2.19	0.013	0.11	<0.1	0.05	11.0	0.1	0.06	6	0.8	<0.2
991880	Soil	24	0.47	177	0.036	1	1.30	0.008	0.06	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
991881	Soil	24	0.44	152	0.031	<1	1.37	0.008	0.08	0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
991882	Soil	22	0.52	147	0.028	<1	1.31	0.009	0.07	<0.1	0.03	4.0	<0.1	<0.05	4	0.9	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991883	Soil	0.6	18.5	11.5	186	0.1	19.0	9.4	784	2.81	6.5	2.0	0.3	33	1.2	0.4	<0.1	56	0.42	0.035	6
991884	Soil	0.4	21.6	11.5	213	0.2	17.1	7.7	784	2.57	5.5	1.7	0.2	41	2.5	0.3	0.2	49	0.52	0.046	7
991885	Soil	0.7	21.0	13.8	147	0.2	18.0	8.8	600	2.79	6.3	3.3	0.4	25	1.1	0.4	0.1	51	0.22	0.035	7
991886	Soil	0.7	21.4	10.4	119	0.2	19.7	8.0	515	2.66	5.9	1.2	0.3	31	0.5	0.4	0.1	45	0.32	0.039	7
991887	Soil	0.5	24.6	11.7	117	0.1	21.6	7.7	450	2.66	6.5	1.7	0.5	34	0.3	0.4	0.1	48	0.31	0.036	8
991888	Soil	0.7	30.5	13.3	124	0.2	23.8	9.3	524	2.95	6.9	0.8	0.4	39	0.7	0.4	0.1	50	0.37	0.034	8
991889	Soil	0.7	16.1	10.3	109	<0.1	18.8	10.2	619	2.93	8.1	3.5	0.4	27	0.2	0.5	0.1	53	0.26	0.043	6
991890	Soil	0.7	14.8	10.2	129	<0.1	14.7	8.4	621	2.94	8.3	4.3	0.5	28	1.1	0.4	0.1	54	0.36	0.047	4
991891	Soil	0.4	16.1	9.5	97	0.1	16.9	7.9	466	2.70	6.4	2.7	0.3	20	0.3	0.3	0.1	51	0.19	0.044	6
991892	Soil	0.7	53.7	11.6	143	0.7	35.1	12.7	712	2.96	5.5	3.0	0.6	58	1.4	0.4	0.1	52	0.61	0.125	12
991893	Soil	0.7	25.2	9.1	165	0.2	23.2	10.5	1225	2.51	4.9	2.6	0.2	58	1.3	0.3	0.1	43	0.60	0.053	7
991894	Soil	0.7	27.6	9.9	121	0.2	20.8	15.2	1434	2.82	4.6	2.6	0.3	37	0.7	0.2	0.1	50	0.38	0.056	8
991895	Soil	0.6	23.1	10.7	162	0.2	20.4	11.6	1152	2.67	5.4	1.7	0.3	36	1.2	0.3	0.1	47	0.38	0.050	6
991896	Soil	0.7	17.5	6.7	103	0.1	22.7	8.0	503	2.83	6.7	2.3	0.4	32	0.5	0.3	<0.1	50	0.33	0.039	6
991897	Soil	0.6	16.6	8.1	93	<0.1	19.4	7.9	480	2.78	7.0	2.6	0.5	27	0.3	0.4	<0.1	51	0.26	0.037	6
991898	Soil	0.7	19.8	6.3	90	0.1	21.6	7.9	567	2.67	5.0	2.2	0.4	33	0.3	0.4	<0.1	44	0.45	0.044	6
991899	Soil	0.6	13.5	8.6	115	<0.1	17.6	9.0	829	2.55	5.2	1.7	0.3	32	0.4	0.3	<0.1	48	0.32	0.046	6
991900	Soil	0.8	23.1	9.1	103	<0.1	23.0	10.0	778	3.05	8.1	2.1	0.4	36	0.3	0.5	<0.1	51	0.41	0.048	7
991901	Soil	0.4	14.3	6.6	80	<0.1	18.2	8.5	740	2.52	3.9	3.4	0.4	29	0.5	0.2	<0.1	48	0.25	0.039	6
991902	Soil	0.6	19.3	8.2	111	0.2	21.4	9.3	750	2.89	6.3	0.9	0.3	29	0.4	0.4	<0.1	53	0.25	0.045	8
991903	Soil	0.6	27.1	7.8	112	0.2	27.1	10.1	1288	2.69	5.2	3.6	0.2	51	0.9	0.3	0.1	45	0.51	0.056	11
991904	Soil	0.7	23.3	10.0	172	0.2	27.9	10.1	1470	3.29	5.4	9.3	0.2	53	0.9	0.3	0.1	54	0.57	0.104	8
991905	Soil	0.4	22.1	7.6	116	0.1	24.3	9.2	757	2.75	4.7	1.1	0.4	32	0.8	0.3	<0.1	49	0.31	0.062	9
991906	Soil	0.8	50.9	11.5	155	0.4	40.9	12.6	929	4.01	9.5	4.4	0.9	46	0.4	0.4	<0.1	66	0.40	0.068	11
991907	Soil	0.7	38.4	8.1	126	0.4	34.1	11.9	953	3.13	7.3	5.3	0.8	63	0.6	0.3	<0.1	54	0.57	0.064	11
991908	Soil	0.6	41.3	10.1	126	0.3	31.0	12.3	803	3.22	6.2	2.0	0.5	35	1.0	0.3	0.1	55	0.33	0.047	10
991909	Soil	0.7	42.6	7.9	205	0.4	33.7	10.6	1189	2.92	6.5	1.5	0.4	47	1.2	0.3	0.1	50	0.46	0.075	10
991910	Soil	0.7	66.0	8.5	125	0.6	29.5	9.0	673	3.13	8.6	5.3	0.6	53	1.6	0.4	<0.1	53	0.50	0.063	12
991911	Soil	0.7	54.0	8.5	150	0.8	25.7	7.5	894	2.60	6.6	2.8	0.7	59	1.4	0.4	<0.1	50	0.58	0.095	19
991912	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.

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991883	Soil	21	0.48	171	0.026	1	1.36	0.007	0.07	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
991884	Soil	18	0.38	196	0.028	3	1.14	0.007	0.08	0.1	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
991885	Soil	20	0.41	158	0.024	4	1.29	0.008	0.07	0.2	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
991886	Soil	21	0.46	156	0.024	3	1.34	0.008	0.07	<0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
991887	Soil	20	0.51	142	0.022	3	1.38	0.008	0.08	0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
991888	Soil	21	0.53	162	0.017	<1	1.54	0.009	0.09	0.1	0.04	5.3	<0.1	<0.05	5	<0.5	<0.2
991889	Soil	20	0.48	111	0.032	3	1.19	0.007	0.07	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
991890	Soil	18	0.37	133	0.034	1	1.03	0.006	0.09	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
991891	Soil	18	0.41	109	0.014	<1	1.35	0.007	0.06	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
991892	Soil	27	0.62	294	0.008	3	2.62	0.011	0.17	<0.1	0.13	7.0	0.1	<0.05	6	<0.5	<0.2
991893	Soil	19	0.40	173	0.014	3	1.20	0.007	0.10	0.1	0.05	3.7	<0.1	<0.05	4	0.6	<0.2
991894	Soil	23	0.46	185	0.010	2	1.65	0.008	0.10	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
991895	Soil	19	0.44	174	0.023	3	1.36	0.008	0.08	<0.1	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
991896	Soil	22	0.52	124	0.017	3	1.44	0.008	0.09	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
991897	Soil	19	0.50	95	0.033	2	1.29	0.009	0.08	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
991898	Soil	20	0.51	133	0.013	1	1.56	0.008	0.09	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
991899	Soil	18	0.42	144	0.023	1	1.20	0.006	0.09	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
991900	Soil	23	0.54	150	0.016	2	1.58	0.007	0.11	<0.1	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
991901	Soil	18	0.40	140	0.035	2	1.14	0.007	0.09	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
991902	Soil	21	0.48	152	0.021	2	1.47	0.007	0.08	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991903	Soil	21	0.52	225	0.012	<1	1.61	0.007	0.12	<0.1	0.03	3.6	<0.1	<0.05	5	0.8	<0.2
991904	Soil	21	0.44	308	0.014	2	1.45	0.006	0.16	<0.1	0.04	3.9	<0.1	<0.05	6	<0.5	<0.2
991905	Soil	20	0.48	194	0.024	<1	1.43	0.008	0.09	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
991906	Soil	32	0.75	267	0.014	6	2.55	0.013	0.18	0.1	0.04	8.5	<0.1	<0.05	8	<0.5	<0.2
991907	Soil	24	0.60	268	0.014	<1	2.00	0.012	0.15	<0.1	0.04	6.7	<0.1	<0.05	5	0.7	<0.2
991908	Soil	22	0.49	222	0.021	3	1.63	0.009	0.11	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
991909	Soil	25	0.53	286	0.014	2	1.87	0.010	0.13	0.1	0.04	5.3	<0.1	<0.05	6	0.9	<0.2
991910	Soil	25	0.53	362	0.011	3	1.76	0.010	0.11	<0.1	0.05	8.6	<0.1	<0.05	5	<0.5	<0.2
991911	Soil	23	0.53	382	0.015	<1	1.97	0.012	0.11	<0.1	0.10	10.9	<0.1	<0.05	5	1.0	<0.2
991912	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.

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
991913	Soil	0.8	75.4	9.2	167	0.7	62.7	12.8	1100	3.58	6.9	1.4	0.9	60	1.1	0.3	0.1	52	0.57	0.134	18
991915	Soil	0.7	38.8	10.7	150	0.3	39.1	13.0	1342	3.63	8.6	1.7	0.6	43	0.6	0.4	<0.1	59	0.37	0.080	11
991916	Soil	0.6	14.8	7.9	85	<0.1	20.5	8.6	454	3.03	8.6	2.6	0.4	23	0.2	0.4	<0.1	55	0.19	0.035	5
991917	Soil	0.4	13.5	6.9	84	<0.1	20.7	7.7	513	2.81	5.8	1.1	0.5	22	0.2	0.3	<0.1	53	0.18	0.027	5
991918	Soil	0.6	34.7	8.6	112	0.2	29.5	11.1	1089	3.05	6.8	3.0	0.4	40	0.4	0.2	<0.1	51	0.36	0.069	11
991919	Soil	0.6	15.7	6.9	130	0.1	19.9	9.7	891	2.67	5.1	2.8	0.3	28	0.3	0.3	<0.1	50	0.24	0.044	7
991920	Soil	0.6	12.1	6.4	95	<0.1	19.4	7.3	430	2.52	4.7	15.2	0.3	21	0.1	0.2	<0.1	48	0.18	0.029	5
991921	Soil	0.6	26.2	9.0	182	0.1	26.4	12.0	2057	2.86	5.7	1.4	0.2	51	0.7	0.3	0.2	53	0.49	0.064	10
991922	Soil	0.5	25.4	12.8	88	<0.1	19.7	9.0	611	3.10	14.3	1.4	1.2	32	0.2	0.6	0.1	61	0.33	0.046	9
991923	Soil	0.5	21.9	12.6	105	0.2	17.8	8.4	573	3.15	12.4	7.0	0.9	31	0.4	0.5	<0.1	61	0.35	0.049	7
991924	Soil	0.6	33.1	10.4	141	0.9	24.0	8.9	1069	2.75	7.2	1.1	1.0	40	0.7	0.4	<0.1	58	0.37	0.045	13
991925	Soil	0.8	33.7	23.9	277	0.2	16.6	12.5	1778	3.80	14.9	1.7	0.3	46	4.9	0.5	0.2	73	0.44	0.064	6
991926	Soil	0.9	70.6	19.3	264	0.7	56.5	12.7	1501	4.01	9.9	<0.5	1.1	55	3.9	0.4	0.2	69	0.46	0.105	18
991927	Soil	0.8	16.6	18.8	341	0.2	14.7	12.7	2065	3.38	6.8	<0.5	0.3	66	2.3	0.3	0.2	62	0.57	0.225	5
991928	Soil	0.5	26.1	8.4	157	0.2	30.1	11.7	1410	2.98	4.8	<0.5	0.3	48	0.9	0.3	0.1	54	0.41	0.080	9
991929	Soil	0.7	18.7	8.8	87	<0.1	20.3	9.4	676	3.00	8.5	<0.5	0.6	29	0.4	0.4	0.1	56	0.27	0.049	6
991930	Soil	0.5	17.3	7.1	74	<0.1	21.6	7.5	559	2.78	6.9	1.0	0.4	30	0.3	0.3	0.1	54	0.24	0.038	7
991931	Soil	0.6	15.4	11.6	80	<0.1	22.2	9.9	545	3.04	8.9	0.7	0.6	27	0.2	0.4	<0.1	56	0.21	0.029	5
991932	Soil	0.5	15.6	8.1	139	0.1	20.1	11.2	1657	2.84	5.5	<0.5	0.2	51	0.8	0.3	<0.1	54	0.43	0.043	6
991933	Soil	0.6	29.0	8.6	147	0.3	29.0	11.0	1413	3.15	6.1	2.7	0.5	35	0.4	0.3	0.1	56	0.30	0.052	8
991934	Soil	0.7	30.3	9.4	112	0.3	27.4	10.4	788	3.04	6.8	0.5	0.5	49	0.3	0.2	<0.1	53	0.39	0.068	10
991935	Soil	0.6	12.4	8.2	128	<0.1	17.5	9.0	1070	2.80	7.6	0.9	0.2	32	0.4	0.3	0.1	55	0.29	0.039	5
991936	Soil	0.5	14.5	8.4	127	0.2	19.7	9.3	757	2.89	6.4	<0.5	0.3	31	0.3	0.3	0.1	57	0.34	0.046	6
991937	Soil	0.6	30.4	13.1	108	0.2	23.7	9.5	564	3.12	10.5	<0.5	0.8	37	0.3	0.5	0.1	56	0.39	0.047	8
991938	Soil	0.7	34.7	9.0	104	0.2	27.1	10.7	802	2.94	6.9	0.8	0.5	35	0.5	0.3	0.1	55	0.30	0.065	8
991939	Soil	0.5	17.0	8.1	71	<0.1	17.5	7.2	370	2.77	7.6	0.7	0.6	23	<0.1	0.3	<0.1	52	0.20	0.033	6
991940	Soil	0.8	18.9	8.7	77	0.2	20.7	7.3	443	2.62	6.1	0.6	0.2	32	0.2	0.3	<0.1	49	0.28	0.046	7
991941	Soil	0.7	19.5	8.9	83	<0.1	20.2	8.9	623	2.89	8.3	1.2	0.5	25	0.2	0.4	<0.1	53	0.22	0.033	7
991942	Soil	0.3	12.8	8.8	108	<0.1	17.6	8.3	576	2.77	7.3	1.1	0.5	24	0.1	0.4	<0.1	56	0.23	0.026	5
991943	Soil	0.4	8.8	7.2	93	0.2	11.8	6.6	565	2.04	3.3	0.9	0.6	27	0.7	0.3	0.1	46	0.23	0.023	6

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Project: ZNT  
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991913	Soil	32	0.70	355	0.003	2	3.14	0.012	0.19	<0.1	0.08	10.1	<0.1	<0.05	7	0.8	<0.2
991915	Soil	28	0.63	222	0.009	2	2.22	0.010	0.14	<0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
991916	Soil	19	0.49	100	0.023	<1	1.30	0.007	0.06	<0.1	0.02	3.2	<0.1	<0.05	5	0.6	<0.2
991917	Soil	19	0.48	101	0.034	2	1.29	0.008	0.07	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991918	Soil	26	0.58	213	0.008	1	2.02	0.009	0.12	<0.1	0.05	5.5	<0.1	<0.05	6	<0.5	<0.2
991919	Soil	18	0.43	173	0.016	1	1.40	0.006	0.09	<0.1	0.03	3.3	<0.1	<0.05	5	0.7	<0.2
991920	Soil	19	0.45	117	0.020	<1	1.29	0.008	0.07	<0.1	0.02	2.7	<0.1	<0.05	5	1.2	<0.2
991921	Soil	23	0.49	285	0.011	5	1.65	0.007	0.09	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991922	Soil	23	0.47	195	0.046	3	1.35	0.016	0.05	<0.1	0.03	5.6	<0.1	<0.05	4	<0.5	<0.2
991923	Soil	21	0.51	221	0.037	4	1.31	0.013	0.05	<0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2
991924	Soil	25	0.64	291	0.027	4	1.73	0.014	0.06	0.1	0.12	10.6	0.1	<0.05	5	<0.5	<0.2
991925	Soil	20	0.36	248	0.038	6	1.06	0.007	0.12	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991926	Soil	33	0.61	372	0.008	3	2.91	0.013	0.16	<0.1	0.05	9.9	0.1	<0.05	9	<0.5	<0.2
991927	Soil	21	0.36	468	0.034	3	1.31	0.008	0.13	0.2	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
991928	Soil	28	0.70	205	0.012	6	1.88	0.010	0.10	<0.1	0.05	4.0	<0.1	<0.05	6	<0.5	<0.2
991929	Soil	22	0.49	110	0.026	4	1.31	0.007	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
991930	Soil	20	0.51	107	0.031	3	1.29	0.008	0.07	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
991931	Soil	22	0.50	106	0.038	5	1.28	0.009	0.08	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
991932	Soil	21	0.44	260	0.022	4	1.32	0.007	0.08	<0.1	0.03	3.0	<0.1	<0.05	5	0.8	<0.2
991933	Soil	25	0.55	206	0.012	3	1.89	0.009	0.12	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
991934	Soil	26	0.58	203	0.009	3	2.01	0.010	0.11	<0.1	0.05	5.2	<0.1	<0.05	6	0.9	<0.2
991935	Soil	19	0.42	165	0.018	3	1.29	0.006	0.06	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991936	Soil	21	0.44	148	0.022	2	1.39	0.007	0.10	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
991937	Soil	24	0.55	158	0.023	4	1.56	0.010	0.09	<0.1	0.05	6.2	<0.1	<0.05	5	0.7	<0.2
991938	Soil	25	0.56	185	0.010	3	1.85	0.007	0.11	0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
991939	Soil	22	0.53	96	0.031	1	1.38	0.007	0.08	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
991940	Soil	22	0.56	118	0.020	3	1.53	0.008	0.09	<0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
991941	Soil	22	0.54	109	0.034	3	1.39	0.009	0.08	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
991942	Soil	21	0.46	105	0.033	4	1.26	0.009	0.06	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991943	Soil	14	0.28	148	0.036	2	0.92	0.007	0.07	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991944	Soil			0.5	26.6	9.7	117	0.2	20.6	8.8	906	2.71	6.9	<0.5	0.2	44	0.4	0.4	0.1	46	0.57	0.063	7	
991945	Soil			0.6	16.8	10.7	146	0.1	19.4	8.6	666	2.81	7.7	0.8	0.4	36	0.8	0.4	<0.1	52	0.40	0.041	6	
991946	Soil			0.6	30.3	12.1	138	0.3	25.5	7.7	422	2.94	5.9	2.6	0.6	38	0.4	0.3	0.1	54	0.38	0.038	8	
991947	Soil			1.0	57.7	14.2	199	0.6	36.6	9.7	621	3.17	7.3	0.8	0.7	77	2.4	0.3	0.1	53	0.78	0.107	16	
991948	Soil			0.7	18.7	8.5	129	<0.1	17.5	7.4	509	2.62	6.7	<0.5	0.3	30	0.8	0.3	<0.1	50	0.27	0.038	6	
991949	Soil			0.8	18.9	15.9	147	0.2	14.4	7.0	595	2.88	9.0	0.7	0.1	41	1.2	0.3	<0.1	56	0.46	0.069	5	
991950	Soil			0.7	19.1	12.5	167	<0.1	18.9	9.8	703	3.13	7.2	3.2	0.3	28	0.7	0.4	<0.1	53	0.34	0.048	6	
991951	Soil			0.5	14.7	11.8	129	<0.1	16.3	7.8	469	2.36	6.1	<0.5	0.3	39	0.5	0.3	<0.1	43	0.43	0.042	6	
991952	Soil			0.6	15.8	18.3	305	0.2	17.5	11.6	876	2.84	12.6	2.4	0.4	45	2.5	0.3	<0.1	55	0.55	0.068	5	
991953	Soil			1.1	83.8	14.9	245	1.3	45.6	8.8	348	3.61	7.7	2.2	1.3	60	1.1	0.5	<0.1	55	0.77	0.108	15	
991954	Soil			0.5	19.5	15.8	181	0.2	18.2	7.2	777	2.38	6.5	<0.5	0.1	48	0.7	0.3	<0.1	43	0.57	0.056	7	
991955	Soil			0.6	27.2	15.6	139	0.2	21.8	9.4	609	2.97	7.5	1.1	0.4	31	0.6	0.3	<0.1	53	0.36	0.040	8	
991956	Soil			0.8	16.2	12.3	168	<0.1	18.5	9.0	599	2.96	7.5	0.8	0.3	28	0.6	0.4	<0.1	56	0.30	0.047	6	
991957	Soil			0.8	17.7	8.7	111	0.1	18.0	7.0	413	2.84	6.1	1.5	0.4	24	0.5	0.3	0.3	54	0.23	0.028	5	
991958	Soil			0.7	20.9	11.9	130	<0.1	20.2	9.6	610	3.12	9.0	1.4	0.4	29	0.6	0.4	0.2	58	0.27	0.032	6	
991959	Soil			0.7	18.6	13.3	118	<0.1	17.1	8.6	542	2.65	8.9	1.2	0.5	32	0.6	0.4	0.2	51	0.33	0.033	7	
991960	Soil			0.6	30.2	10.1	148	0.2	21.5	10.0	1152	2.74	6.3	1.9	0.3	37	1.6	0.4	0.2	51	0.37	0.046	8	
991961	Soil			0.5	14.5	8.1	84	<0.1	15.0	6.7	304	2.52	7.7	1.0	0.3	24	0.4	0.3	0.1	51	0.24	0.031	5	
991962	Soil			0.6	18.0	8.8	148	0.1	18.4	8.9	1350	2.68	6.4	0.5	0.2	29	1.0	0.4	0.1	50	0.24	0.044	6	
991963	Soil			0.7	17.4	8.1	72	<0.1	19.5	8.2	430	2.87	9.4	0.8	0.6	25	0.1	0.4	0.1	55	0.21	0.032	6	
991964	Soil			0.5	19.5	10.5	84	0.1	19.3	9.2	727	2.76	6.5	0.6	0.5	27	0.3	0.3	0.4	52	0.23	0.036	7	
991965	Soil			0.8	44.7	11.2	119	0.3	30.8	11.0	816	3.24	7.8	<0.5	0.4	39	0.7	0.3	0.2	58	0.37	0.058	10	
991966	Soil			0.8	75.1	9.6	120	0.9	45.2	9.9	479	3.13	5.1	1.5	0.8	49	1.1	0.3	0.2	57	0.49	0.099	12	
991967	Soil			0.6	14.7	8.1	81	0.1	15.8	7.4	562	2.48	6.1	<0.5	0.6	23	0.2	0.4	0.2	49	0.22	0.025	6	
991968	Soil			0.4	12.7	5.4	58	<0.1	14.1	4.3	164	1.66	3.4	<0.5	0.4	21	0.2	0.1	<0.1	37	0.24	0.043	6	
991969	Soil			0.7	20.5	7.0	130	0.1	21.6	8.9	734	2.72	7.2	0.8	0.2	37	0.6	0.4	<0.1	53	0.41	0.051	6	
991970	Soil			0.6	17.3	7.9	93	<0.1	20.7	8.8	657	2.93	8.1	0.6	0.5	24	0.2	0.4	0.1	56	0.21	0.032	6	
991971	Soil			0.6	25.5	14.4	277	0.3	21.1	10.1	1129	2.97	8.7	0.6	0.5	31	3.1	0.4	0.2	54	0.39	0.075	7	
991972	Soil			1.1	118.9	20.6	228	1.3	45.7	11.2	1124	3.25	11.7	4.7	1.0	94	4.1	0.6	0.2	50	1.38	0.090	19	
991974	Soil			0.6	22.2	16.2	103	<0.1	21.3	8.4	486	3.01	9.2	0.7	1.0	33	0.4	0.4	<0.1	55	0.40	0.048	7	

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Project: ZNT  
 Report Date: November 02, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991944	Soil	21	0.51	177	0.018	4	1.48	0.008	0.09	<0.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
991945	Soil	21	0.47	151	0.026	5	1.28	0.008	0.09	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
991946	Soil	26	0.59	196	0.016	3	1.87	0.010	0.11	<0.1	0.02	5.6	0.1	<0.05	6	<0.5	<0.2
991947	Soil	28	0.62	354	0.004	5	2.68	0.011	0.17	<0.1	0.10	8.6	<0.1	<0.05	7	<0.5	<0.2
991948	Soil	20	0.44	130	0.023	3	1.24	0.007	0.09	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
991949	Soil	20	0.36	193	0.016	4	1.18	0.006	0.12	<0.1	0.06	2.6	<0.1	<0.05	4	<0.5	<0.2
991950	Soil	21	0.46	166	0.018	2	1.33	0.008	0.08	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
991951	Soil	18	0.46	151	0.030	3	1.11	0.007	0.06	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
991952	Soil	22	0.40	252	0.026	4	1.62	0.008	0.08	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
991953	Soil	37	0.84	402	0.005	3	3.50	0.012	0.24	0.1	0.15	15.3	0.2	<0.05	9	<0.5	<0.2
991954	Soil	19	0.44	279	0.012	2	1.36	0.007	0.09	<0.1	0.09	3.7	<0.1	<0.05	4	<0.5	<0.2
991955	Soil	22	0.52	172	0.015	1	1.58	0.008	0.10	<0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
991956	Soil	20	0.49	157	0.023	2	1.29	0.007	0.07	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
991957	Soil	21	0.43	132	0.018	4	1.28	0.007	0.07	<0.1	<0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
991958	Soil	24	0.48	134	0.026	4	1.35	0.008	0.07	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
991959	Soil	20	0.47	132	0.028	5	1.16	0.008	0.06	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
991960	Soil	22	0.46	195	0.018	4	1.36	0.008	0.08	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
991961	Soil	17	0.41	109	0.024	3	1.08	0.006	0.06	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
991962	Soil	19	0.38	218	0.025	2	1.22	0.007	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991963	Soil	21	0.51	99	0.039	4	1.21	0.007	0.06	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991964	Soil	22	0.52	110	0.026	3	1.42	0.007	0.07	<0.1	0.02	3.8	0.1	<0.05	5	<0.5	<0.2
991965	Soil	28	0.57	198	0.009	3	1.96	0.009	0.12	<0.1	0.03	4.9	<0.1	<0.05	7	<0.5	<0.2
991966	Soil	35	0.58	295	0.003	2	2.80	0.011	0.17	0.1	0.07	7.6	0.1	<0.05	9	<0.5	<0.2
991967	Soil	18	0.43	95	0.034	2	1.14	0.007	0.07	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
991968	Soil	17	0.36	107	0.021	1	1.27	0.008	0.07	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991969	Soil	23	0.51	131	0.017	3	1.40	0.007	0.09	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
991970	Soil	22	0.53	96	0.036	2	1.39	0.014	0.06	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
991971	Soil	22	0.50	275	0.042	3	1.35	0.007	0.11	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
991972	Soil	28	0.58	455	0.011	6	2.37	0.011	0.16	0.1	0.12	12.7	0.2	<0.05	6	0.7	<0.2
991974	Soil	24	0.55	126	0.048	2	1.31	0.015	0.08	<0.1	0.03	5.5	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 02, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991975	Soil	0.8	57.9	13.6	192	0.5	32.3	9.8	649	3.11	19.5	<0.5	0.6	71	2.4	0.5	0.2	49	1.01	0.076	10
991976	Soil	0.7	72.7	9.5	128	0.6	32.4	6.0	405	2.38	18.6	4.2	0.3	111	1.8	0.8	0.1	38	1.92	0.122	13
991977	Soil	1.0	51.5	12.8	157	0.6	31.5	10.5	1466	2.71	22.2	2.2	0.5	90	2.2	0.7	0.1	44	1.62	0.127	10
991978	Soil	0.6	14.9	10.2	125	<0.1	16.5	9.0	526	2.90	10.6	1.0	0.5	21	0.5	0.5	<0.1	57	0.30	0.045	6
991979	Soil	0.5	7.6	7.6	142	0.1	9.0	5.4	436	1.89	3.2	<0.5	0.6	27	0.8	0.3	0.1	39	0.31	0.053	5
991980	Soil	0.6	37.4	11.5	202	0.3	28.3	12.3	918	3.19	8.9	<0.5	0.7	41	1.8	0.5	0.1	55	0.46	0.093	9
991981	Soil	0.6	24.1	13.1	257	0.3	23.7	12.0	1423	2.94	9.7	0.7	0.9	46	3.2	0.5	0.1	55	0.48	0.158	6
991982	Soil	0.6	23.2	10.8	272	0.3	21.0	10.4	1340	2.36	6.8	1.0	0.4	87	3.2	0.4	<0.1	44	1.19	0.187	5
991983	Soil	0.7	20.1	10.1	204	0.2	23.3	9.9	1131	3.99	23.2	<0.5	0.8	34	1.3	0.4	<0.1	53	0.46	0.098	5
991984	Soil	0.4	13.5	11.5	135	0.1	17.4	9.2	587	2.81	13.3	1.7	0.6	34	0.6	0.3	0.1	52	0.32	0.068	6
991985	Soil	0.5	14.6	9.3	130	<0.1	16.5	7.9	916	2.61	16.5	0.6	0.4	33	1.5	0.3	0.1	48	0.32	0.037	6
991986	Soil	0.6	14.1	13.4	332	0.2	14.5	12.2	2663	2.79	8.5	0.9	0.2	30	3.7	0.4	0.1	51	0.26	0.136	6
991987	Soil	0.8	17.0	17.5	325	0.2	10.9	8.9	2216	3.04	9.7	1.4	0.3	35	4.9	0.4	0.1	64	0.41	0.095	5
991988	Soil	0.7	15.1	15.0	328	0.3	20.7	11.4	1341	2.90	18.6	<0.5	0.3	36	1.5	0.4	0.1	58	0.43	0.067	5
991989	Soil	0.6	10.2	12.9	294	0.1	11.1	9.7	1152	2.87	10.6	<0.5	0.3	26	1.7	0.4	0.1	56	0.24	0.092	5
991990	Soil	0.8	11.6	16.9	345	0.1	12.0	11.0	1107	3.65	9.2	<0.5	0.6	29	2.4	0.7	0.1	83	0.37	0.095	5
991991	Soil	0.8	11.4	18.5	305	0.3	8.5	8.4	1206	3.39	6.4	0.6	0.3	30	3.1	0.4	0.2	71	0.36	0.087	5
991993	Soil	1.3	30.7	25.6	185	0.2	19.3	18.6	2307	4.72	27.4	1.2	0.3	23	1.3	0.8	<0.1	106	0.36	0.088	9
991994	Soil	0.9	29.9	17.2	167	0.3	20.1	13.3	1160	3.98	25.2	1.0	0.9	32	0.8	0.7	<0.1	85	0.64	0.062	8
991995	Soil	1.4	30.3	29.3	374	0.3	21.7	13.5	1960	3.50	15.2	0.8	0.6	29	2.0	0.4	0.1	73	0.69	0.067	6
991996	Soil	0.9	19.1	15.9	414	0.2	14.2	12.6	1976	3.29	7.8	<0.5	0.4	20	4.3	0.4	0.2	72	0.46	0.059	4
991997	Soil	0.9	22.4	18.4	448	0.3	14.5	12.2	1673	3.47	9.1	<0.5	0.6	23	3.2	0.4	0.2	76	0.59	0.072	5
991998	Soil	0.9	47.4	16.3	561	0.7	29.6	12.5	1831	3.68	7.0	0.6	1.0	37	4.8	0.5	0.2	73	1.01	0.064	11
991999	Soil	1.0	55.3	12.9	232	0.4	38.8	13.9	1173	4.34	12.0	1.3	2.0	37	2.2	0.6	0.2	86	0.88	0.073	16
992000	Soil	0.5	19.8	8.9	142	0.1	19.6	9.8	637	2.74	6.7	<0.5	0.3	37	0.7	0.3	0.1	60	0.44	0.060	6
992001	Soil	0.7	49.2	8.6	122	0.5	35.3	9.6	568	3.05	7.7	0.7	0.8	54	1.2	0.3	0.1	67	0.70	0.073	11
992002	Soil	0.4	18.6	6.9	103	0.1	17.4	7.5	595	2.12	4.9	<0.5	0.3	35	0.4	0.2	<0.1	55	0.41	0.053	7
992003	Soil	0.6	29.0	6.9	137	0.2	26.8	9.2	983	2.40	5.7	4.9	0.3	74	1.1	0.2	0.1	55	0.92	0.117	11
992004	Soil	0.6	13.1	7.3	119	<0.1	13.1	9.8	1437	2.35	3.8	0.8	0.3	36	0.7	0.2	0.1	60	0.36	0.066	4
992005	Soil	0.6	30.6	7.6	150	0.4	33.2	10.9	1747	2.70	6.0	<0.5	0.4	75	1.3	0.3	0.2	60	0.91	0.107	10

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
991975	Soil	25	0.59	285	0.010	4	1.94	0.011	0.13	0.1	0.04	7.1	<0.1	<0.05	5	0.8	<0.2
991976	Soil	21	0.59	293	0.009	5	1.61	0.011	0.11	<0.1	0.14	6.1	0.2	<0.05	5	1.1	<0.2
991977	Soil	22	0.59	300	0.006	4	1.94	0.011	0.11	0.1	0.13	7.2	0.1	0.14	5	0.8	<0.2
991978	Soil	19	0.47	108	0.046	2	1.10	0.015	0.08	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
991979	Soil	13	0.27	140	0.045	3	0.73	0.008	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
991980	Soil	25	0.56	233	0.030	3	1.52	0.014	0.14	<0.1	0.02	5.2	<0.1	<0.05	5	0.5	<0.2
991981	Soil	22	0.45	304	0.029	5	1.42	0.008	0.14	0.1	0.01	4.8	<0.1	<0.05	5	<0.5	<0.2
991982	Soil	19	0.42	347	0.020	10	1.36	0.007	0.26	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
991983	Soil	21	0.50	246	0.020	2	1.54	0.006	0.12	<0.1	<0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
991984	Soil	20	0.44	182	0.031	2	1.31	0.008	0.11	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991985	Soil	19	0.46	166	0.038	2	1.25	0.007	0.08	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
991986	Soil	19	0.32	401	0.029	4	1.26	0.009	0.11	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
991987	Soil	18	0.26	318	0.031	1	1.08	0.006	0.11	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
991988	Soil	21	0.43	233	0.023	2	1.57	0.006	0.10	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
991989	Soil	17	0.33	274	0.031	2	1.03	0.007	0.07	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
991990	Soil	19	0.42	191	0.055	2	1.00	0.008	0.09	0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
991991	Soil	18	0.26	278	0.036	3	0.80	0.006	0.09	0.2	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
991993	Soil	26	0.55	237	0.038	1	1.34	0.015	0.08	0.1	<0.01	6.8	<0.1	<0.05	5	0.6	<0.2
991994	Soil	22	0.58	233	0.031	3	1.44	0.014	0.08	<0.1	0.03	7.5	<0.1	<0.05	5	0.6	<0.2
991995	Soil	25	0.48	326	0.021	3	1.47	0.007	0.13	0.1	0.05	5.8	0.1	<0.05	5	<0.5	<0.2
991996	Soil	23	0.37	287	0.039	2	1.11	0.007	0.07	0.2	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991997	Soil	22	0.38	275	0.045	2	1.24	0.006	0.08	0.2	0.04	4.0	0.1	<0.05	6	<0.5	<0.2
991998	Soil	29	0.44	476	0.020	3	2.01	0.008	0.09	<0.1	0.04	7.9	0.1	<0.05	6	<0.5	<0.2
991999	Soil	37	0.63	452	0.012	2	2.84	0.011	0.10	<0.1	0.03	13.5	0.2	<0.05	8	<0.5	<0.2
992000	Soil	21	0.43	213	0.029	2	1.18	0.007	0.11	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
992001	Soil	29	0.59	382	0.010	2	2.11	0.011	0.13	<0.1	0.06	9.3	<0.1	<0.05	6	<0.5	<0.2
992002	Soil	19	0.41	172	0.026	2	1.16	0.008	0.09	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
992003	Soil	21	0.50	289	0.016	4	1.33	0.007	0.13	<0.1	0.05	4.5	<0.1	<0.05	4	<0.5	<0.2
992004	Soil	17	0.28	237	0.029	2	0.85	0.006	0.08	0.2	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
992005	Soil	24	0.50	274	0.015	3	1.69	0.009	0.10	0.2	0.07	4.6	<0.1	<0.05	5	<0.5	<0.2

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





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Project: ZNT  
 Report Date: November 02, 2012

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QUALITY CONTROL REPORT

SMI12000504.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
991685	Soil	0.8	35.4	14.2	259	0.3	28.3	11.6	911	3.77	15.8	0.5	0.9	45	1.6	0.6	<0.1	67	0.53	0.088	11
REP 991685	QC	0.7	36.5	14.3	260	0.3	29.2	12.2	938	3.81	15.5	1.9	0.9	45	1.3	0.5	0.1	66	0.52	0.087	11
991698	Soil	0.6	42.0	8.4	110	0.2	27.8	7.9	551	2.85	10.4	5.4	0.9	63	0.4	0.6	0.2	50	1.09	0.069	12
REP 991698	QC	0.6	41.9	7.8	113	0.3	30.1	8.3	575	2.98	9.7	2.0	0.7	66	0.6	0.7	0.1	53	1.12	0.068	12
991756	Soil	0.8	32.2	12.3	165	0.3	19.8	8.2	924	2.36	6.6	<0.5	0.2	52	1.8	0.5	<0.1	43	0.72	0.061	15
REP 991756	QC	1.0	33.9	12.1	166	0.3	18.0	8.0	933	2.37	6.5	0.5	0.3	54	1.4	0.4	<0.1	44	0.73	0.063	16
991767	Soil	1.3	29.2	21.0	384	0.4	25.8	9.3	1190	3.07	8.7	<0.5	0.4	66	2.1	0.4	0.1	55	0.69	0.043	10
REP 991767	QC	0.9	28.8	20.3	389	0.3	23.0	9.5	1169	3.14	8.3	<0.5	0.6	67	2.0	0.5	0.1	56	0.70	0.045	10
991792	Soil	0.8	34.2	8.3	183	0.4	29.0	11.2	837	3.22	7.6	7.7	1.6	48	0.6	0.5	0.1	59	0.76	0.051	11
REP 991792	QC	0.7	34.6	8.1	185	0.3	29.0	11.3	843	3.25	7.0	<0.5	1.4	48	0.5	0.5	<0.1	56	0.69	0.046	11
991804	Soil	0.8	31.4	21.9	238	0.4	19.1	14.8	1698	3.77	26.0	<0.5	0.8	32	1.3	0.7	<0.1	73	0.55	0.065	8
REP 991804	QC	1.1	31.1	22.9	236	0.3	19.4	14.6	1671	3.65	26.1	<0.5	0.8	32	1.4	0.7	<0.1	74	0.53	0.065	8
991830	Soil	0.7	57.9	8.7	278	0.5	28.0	8.9	918	2.63	23.5	1.3	0.5	75	3.2	0.5	<0.1	38	2.49	0.076	6
REP 991830	QC	0.8	60.9	8.4	285	0.6	26.9	8.5	958	2.65	25.8	3.5	0.4	80	3.1	0.7	<0.1	44	2.38	0.077	6
991841	Soil	0.6	32.9	7.9	198	0.2	16.6	8.4	434	2.78	5.6	<0.5	0.7	35	3.6	0.3	0.1	64	0.47	0.025	5
REP 991841	QC	0.8	33.6	8.5	197	0.2	17.0	7.8	444	2.77	5.8	<0.5	0.8	34	3.0	0.3	0.1	64	0.46	0.027	5
991867	Soil	0.5	9.3	7.6	170	0.1	12.2	7.6	455	2.36	5.1	<0.5	0.5	32	0.7	0.3	0.1	51	0.36	0.038	5
REP 991867	QC	0.6	11.2	8.1	192	0.1	12.1	8.0	485	2.51	5.1	<0.5	0.5	33	0.5	0.3	<0.1	53	0.40	0.041	5
991880	Soil	0.9	20.5	20.7	174	<0.1	19.5	10.2	552	3.14	11.9	<0.5	0.7	32	0.8	0.5	<0.1	60	0.47	0.026	5
REP 991880	QC	0.7	19.7	21.0	161	<0.1	18.2	10.3	533	3.01	10.2	1.6	0.6	31	0.7	0.4	0.1	57	0.48	0.028	6
991905	Soil	0.4	22.1	7.6	116	0.1	24.3	9.2	757	2.75	4.7	1.1	0.4	32	0.8	0.3	<0.1	49	0.31	0.062	9
REP 991905	QC	0.5	21.5	7.7	115	0.1	25.3	9.8	769	2.80	5.5	<0.5	0.4	32	0.8	0.3	<0.1	49	0.33	0.059	9
991917	Soil	0.4	13.5	6.9	84	<0.1	20.7	7.7	513	2.81	5.8	1.1	0.5	22	0.2	0.3	<0.1	53	0.18	0.027	5
REP 991917	QC	0.5	12.3	6.7	89	<0.1	22.3	8.2	495	2.80	7.0	2.5	0.5	22	0.3	0.4	<0.1	52	0.18	0.025	5
991942	Soil	0.3	12.8	8.8	108	<0.1	17.6	8.3	576	2.77	7.3	1.1	0.5	24	0.1	0.4	<0.1	56	0.23	0.026	5
REP 991942	QC	0.4	11.9	9.3	103	0.1	17.2	8.0	569	2.74	8.1	7.0	0.5	26	0.2	0.4	<0.1	55	0.23	0.029	5
991945	Soil	0.6	16.8	10.7	146	0.1	19.4	8.6	666	2.81	7.7	0.8	0.4	36	0.8	0.4	<0.1	52	0.40	0.041	6
REP 991945	QC	0.6	17.7	10.7	152	0.1	19.6	8.9	667	2.88	7.5	<0.5	0.4	36	0.9	0.4	<0.1	51	0.41	0.042	6



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QUALITY CONTROL REPORT

SMI12000504.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
991685	Soil	31	0.60	290	0.024	1	2.10	0.011	0.12	0.1	0.03	9.5	<0.1	<0.05	6	<0.5	<0.2
REP 991685	QC	30	0.60	295	0.024	2	2.10	0.012	0.11	0.1	0.03	9.5	<0.1	<0.05	6	<0.5	<0.2
991698	Soil	24	0.58	226	0.023	4	1.83	0.013	0.12	0.2	0.02	8.0	<0.1	<0.05	6	<0.5	<0.2
REP 991698	QC	27	0.58	240	0.024	4	1.86	0.013	0.13	0.2	0.04	8.3	<0.1	<0.05	6	0.6	<0.2
991756	Soil	16	0.42	252	0.014	2	1.17	0.007	0.08	<0.1	0.04	3.8	<0.1	<0.05	3	0.5	<0.2
REP 991756	QC	16	0.42	260	0.021	3	1.20	0.008	0.08	0.1	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2
991767	Soil	21	0.46	251	0.017	3	1.53	0.009	0.08	0.2	0.05	5.1	<0.1	<0.05	5	<0.5	<0.2
REP 991767	QC	21	0.47	253	0.025	4	1.57	0.010	0.10	0.3	0.03	6.0	<0.1	<0.05	5	2.3	<0.2
991792	Soil	30	0.62	251	0.039	2	2.09	0.015	0.12	0.1	0.05	10.8	0.1	<0.05	6	<0.5	<0.2
REP 991792	QC	29	0.59	242	0.022	1	2.05	0.015	0.11	0.1	0.05	9.4	0.1	<0.05	7	0.8	<0.2
991804	Soil	20	0.58	334	0.027	2	1.42	0.012	0.08	<0.1	0.03	7.7	<0.1	<0.05	5	<0.5	<0.2
REP 991804	QC	21	0.57	336	0.028	1	1.37	0.012	0.08	0.1	0.04	7.7	<0.1	<0.05	5	<0.5	<0.2
991830	Soil	21	0.53	364	0.019	8	1.51	0.014	0.09	<0.1	0.07	5.8	<0.1	0.08	4	0.8	<0.2
REP 991830	QC	22	0.54	367	0.020	7	1.55	0.013	0.09	0.2	0.06	5.7	<0.1	0.08	5	0.6	<0.2
991841	Soil	18	0.25	260	0.049	2	1.02	0.008	0.04	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
REP 991841	QC	18	0.26	264	0.049	3	1.01	0.008	0.04	0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
991867	Soil	17	0.33	212	0.035	<1	0.98	0.006	0.08	<0.1	0.02	2.8	<0.1	<0.05	4	0.6	<0.2
REP 991867	QC	18	0.35	205	0.037	<1	1.02	0.006	0.09	0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
991880	Soil	24	0.47	177	0.036	1	1.30	0.008	0.06	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 991880	QC	24	0.48	175	0.039	<1	1.33	0.009	0.06	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
991905	Soil	20	0.48	194	0.024	<1	1.43	0.008	0.09	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
REP 991905	QC	19	0.46	193	0.025	3	1.45	0.008	0.09	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
991917	Soil	19	0.48	101	0.034	2	1.29	0.008	0.07	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
REP 991917	QC	20	0.47	102	0.033	2	1.29	0.008	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	0.7	<0.2
991942	Soil	21	0.46	105	0.033	4	1.26	0.009	0.06	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 991942	QC	20	0.47	111	0.032	4	1.30	0.008	0.06	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
991945	Soil	21	0.47	151	0.026	5	1.28	0.008	0.09	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
REP 991945	QC	22	0.46	151	0.026	2	1.27	0.008	0.09	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT

Report Date: November 02, 2012

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# QUALITY CONTROL REPORT

SMI12000504.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
991979	Soil	0.5	7.6	7.6	142	0.1	9.0	5.4	436	1.89	3.2	<0.5	0.6	27	0.8	0.3	0.1	39	0.31	0.053	5
REP 991979	QC	0.4	8.3	7.7	148	0.1	9.9	5.3	463	2.00	3.7	<0.5	0.5	26	0.8	0.3	<0.1	41	0.32	0.052	5
991990	Soil	0.8	11.6	16.9	345	0.1	12.0	11.0	1107	3.65	9.2	<0.5	0.6	29	2.4	0.7	0.1	83	0.37	0.095	5
REP 991990	QC	0.7	11.2	17.7	345	0.2	11.5	10.5	1137	3.58	9.4	0.9	0.5	29	2.5	0.7	<0.1	80	0.38	0.098	5
992005	Soil	0.6	30.6	7.6	150	0.4	33.2	10.9	1747	2.70	6.0	<0.5	0.4	75	1.3	0.3	0.2	60	0.91	0.107	10
REP 992005	QC	0.9	32.9	7.8	162	0.4	33.8	11.4	1857	2.81	6.3	1.6	0.5	77	1.5	0.4	0.2	81	0.98	0.113	11
Reference Materials																					
STD DS9	Standard	13.9	108.8	129.2	317	1.8	40.9	7.6	637	2.47	27.0	113.7	6.9	78	2.4	5.9	6.7	44	0.77	0.084	15
STD DS9	Standard	13.4	107.2	127.2	306	1.7	37.7	7.3	578	2.36	26.1	107.8	6.6	71	2.4	5.9	6.4	39	0.71	0.085	13
STD DS9	Standard	13.5	101.1	128.8	311	1.8	38.9	7.7	541	2.39	25.5	123.2	7.0	77	2.3	5.8	6.0	41	0.76	0.088	14
STD DS9	Standard	12.6	106.5	129.8	307	1.8	39.8	7.7	573	2.34	24.4	125.2	6.8	69	2.0	5.4	6.2	42	0.73	0.084	13
STD DS9	Standard	13.8	109.0	134.0	313	1.8	41.3	8.3	587	2.40	26.2	113.9	7.2	76	2.3	5.8	6.2	44	0.73	0.077	15
STD DS9	Standard	14.1	106.1	134.9	307	1.9	38.3	7.7	610	2.40	26.2	119.2	7.0	74	2.3	5.6	5.9	44	0.79	0.076	15
STD DS9	Standard	14.3	118.5	127.4	307	1.8	42.4	7.8	598	2.38	26.0	115.6	7.3	77	2.5	5.6	6.6	43	0.77	0.083	15
STD DS9	Standard	14.9	118.5	141.1	331	1.8	44.1	8.4	623	2.51	26.6	121.8	7.1	71	2.4	5.5	6.2	59	0.76	0.084	14
STD DS9	Standard	12.8	101.3	127.9	305	1.8	38.0	7.6	576	2.32	23.6	114.1	6.8	71	2.4	5.9	6.2	40	0.75	0.085	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	2	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	8	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
Report Date: November 02, 2012

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QUALITY CONTROL REPORT

SMI12000504.1

		1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm	1DX15 Te ppm
991979	Soil	13	0.27	140	0.045	3	0.73	0.008	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
REP 991979	QC	13	0.27	143	0.050	2	0.74	0.006	0.09	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
991990	Soil	19	0.42	191	0.055	2	1.00	0.008	0.09	0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
REP 991990	QC	19	0.40	197	0.065	4	0.96	0.008	0.10	0.2	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
992005	Soil	24	0.50	274	0.015	3	1.69	0.009	0.10	0.2	0.07	4.6	<0.1	<0.05	5	<0.5	<0.2
REP 992005	QC	27	0.52	284	0.022	4	1.80	0.010	0.12	0.2	0.07	5.5	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	123	0.64	333	0.119	2	0.94	0.092	0.44	3.1	0.19	2.8	5.6	0.10	5	5.8	5.4
STD DS9	Standard	117	0.62	311	0.110	3	0.92	0.086	0.40	3.2	0.21	2.5	5.6	0.11	5	5.5	5.4
STD DS9	Standard	118	0.64	298	0.120	2	0.97	0.075	0.41	2.9	0.21	2.6	5.4	0.13	5	4.3	4.5
STD DS9	Standard	119	0.62	306	0.113	<1	0.91	0.079	0.39	3.0	0.20	2.6	5.3	0.12	4	6.2	5.3
STD DS9	Standard	122	0.62	308	0.122	4	0.93	0.084	0.40	3.0	0.22	2.6	5.3	0.11	4	6.0	4.6
STD DS9	Standard	131	0.66	308	0.122	<1	0.96	0.083	0.42	3.3	0.22	2.8	5.6	0.12	4	6.2	6.0
STD DS9	Standard	122	0.67	317	0.119	4	0.98	0.098	0.41	3.1	0.20	2.7	5.7	0.11	5	5.6	5.2
STD DS9	Standard	132	0.66	323	0.117	3	0.97	0.091	0.41	3.1	0.18	2.8	5.7	0.15	5	5.8	4.8
STD DS9	Standard	113	0.63	311	0.114	4	0.98	0.089	0.42	3.2	0.23	2.6	5.5	0.13	4	7.6	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	0.8	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 23, 2012

Report Date: November 07, 2012

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## CERTIFICATE OF ANALYSIS

## SMI12000505.1

### CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-06\_201210  
P.O. Number: QZM-ZNT-06  
Number of Samples: 296

### 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: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	296	Dry at 60C			SMI
SS80	296	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	290	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS



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



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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992006	Soil	1.1	23.4	16.4	242	0.2	13.0	14.9	3090	2.89	7.8	0.6	0.1	34	2.8	0.3	0.2	61	0.45	0.084	5
992007	Soil	1.1	26.5	17.2	491	0.3	10.7	12.3	2658	3.03	5.0	0.8	0.5	24	5.4	0.3	0.2	64	0.34	0.128	5
992008	Soil	1.0	26.4	17.5	180	0.2	20.9	13.0	1029	4.26	18.0	2.7	1.1	27	0.7	0.7	0.1	110	0.51	0.062	8
992009	Soil	0.8	39.2	16.8	868	0.4	20.9	13.3	1775	3.42	16.3	1.0	0.8	39	2.7	0.5	0.2	73	0.90	0.146	7
992010	Soil	1.3	46.9	20.2	233	0.2	24.5	15.0	1437	3.92	23.5	2.1	0.7	32	1.7	0.7	0.1	85	0.58	0.119	11
992011	Soil	1.2	26.4	16.4	224	0.3	16.9	13.6	2070	3.38	16.7	<0.5	0.5	32	1.6	0.5	0.2	73	0.59	0.122	5
992012	Soil	1.0	40.0	16.9	528	0.3	11.4	14.2	4031	3.00	7.2	0.6	0.2	32	7.0	0.4	0.2	69	0.53	0.115	5
992013	Soil	0.9	17.6	11.5	204	0.2	12.6	10.5	2124	2.87	5.1	<0.5	0.2	35	2.8	0.3	0.2	71	0.44	0.080	4
992014	Soil	0.8	40.4	10.5	194	0.5	27.2	11.9	1105	2.98	9.4	<0.5	0.2	66	3.3	0.3	0.2	65	0.80	0.074	6
992015	Soil	0.6	24.6	7.1	210	0.2	21.4	10.2	965	2.39	4.3	0.5	0.6	29	1.2	0.3	0.1	50	0.39	0.043	5
992016	Soil	0.6	12.4	7.7	186	0.1	17.2	10.1	1374	2.55	5.0	<0.5	0.3	27	0.8	0.2	0.2	56	0.27	0.059	4
992017	Soil	0.5	9.8	7.6	193	0.2	14.5	8.1	804	2.36	5.2	<0.5	0.3	34	0.8	0.2	0.1	53	0.35	0.039	5
992018	Soil	0.7	11.9	7.9	182	0.2	16.9	11.0	1485	2.59	5.7	0.6	0.2	30	0.6	0.3	0.1	57	0.29	0.074	4
992019	Soil	0.6	14.8	7.6	143	0.1	18.1	10.1	732	2.62	6.0	<0.5	0.5	33	0.7	0.2	0.1	57	0.35	0.039	5
992020	Soil	0.6	18.9	8.3	174	0.1	17.5	11.4	753	2.41	5.3	<0.5	0.5	35	0.9	0.3	0.1	57	0.47	0.077	5
992021	Soil	0.6	13.0	7.7	162	0.1	16.4	10.3	1327	2.63	5.3	<0.5	0.4	27	0.7	0.4	0.1	59	0.26	0.045	5
992022	Soil	1.1	36.0	11.6	194	0.5	42.3	13.2	833	4.21	14.5	1.4	1.6	53	0.2	0.5	0.2	81	0.75	0.066	10
992023	Soil	0.6	62.0	9.2	190	0.6	62.1	16.0	902	4.06	7.7	2.5	1.7	59	1.2	0.4	0.2	74	0.78	0.118	17
992024	Soil	0.6	65.8	8.9	134	0.7	63.0	14.0	897	3.91	8.7	0.7	1.7	79	2.0	0.3	0.2	75	1.07	0.119	25
992025	Soil	0.8	14.9	8.5	154	<0.1	15.4	12.3	1007	2.71	5.0	<0.5	0.4	29	0.8	0.4	0.1	61	0.26	0.034	6
992026	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.
992027	Soil	0.8	12.3	6.9	75	<0.1	17.0	11.7	729	2.83	7.0	0.9	0.4	29	0.2	0.3	0.1	67	0.24	0.027	4
992028	Soil	0.8	31.7	9.5	70	<0.1	27.6	12.3	640	3.45	11.3	2.1	1.3	30	<0.1	0.7	0.1	70	0.29	0.036	7
992029	Soil	0.8	28.2	7.2	56	0.2	23.5	9.9	396	2.68	4.4	1.3	0.5	54	<0.1	0.2	0.1	70	0.39	0.032	9
992030	Soil	0.5	24.6	7.5	141	0.2	24.8	13.3	2675	2.80	4.5	0.9	0.3	34	0.6	0.3	0.2	62	0.35	0.083	5
992031	Soil	0.6	11.4	6.7	109	<0.1	18.8	10.5	689	2.98	6.7	<0.5	0.7	25	0.2	0.3	0.1	67	0.24	0.028	5
992032	Soil	0.6	22.9	8.1	119	<0.1	25.8	10.7	879	3.01	8.2	0.7	0.7	31	0.2	0.4	0.1	62	0.36	0.058	7
992033	Soil	0.5	14.9	6.9	127	0.1	14.0	10.0	1214	2.36	2.9	<0.5	0.3	29	0.4	0.2	0.1	52	0.29	0.062	5
992034	Soil	0.5	16.4	7.8	289	<0.1	20.9	12.2	1563	2.65	5.3	0.8	0.3	55	0.9	0.4	0.1	51	0.63	0.103	5
992035	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.

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Project: ZNT  
Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992006	Soil	17	0.31	347	0.021	2	0.97	0.006	0.06	<0.1	0.05	2.3	<0.1	<0.05	4	<0.5	<0.2
992007	Soil	17	0.24	728	0.034	3	0.90	0.005	0.08	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
992008	Soil	27	0.63	267	0.045	2	1.29	0.016	0.06	0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
992009	Soil	22	0.55	621	0.032	8	1.47	0.015	0.17	0.1	0.08	6.7	<0.1	<0.05	5	<0.5	<0.2
992010	Soil	26	0.63	378	0.023	2	1.62	0.013	0.11	<0.1	0.07	8.0	<0.1	<0.05	5	<0.5	<0.2
992011	Soil	21	0.47	420	0.029	2	1.22	0.007	0.13	<0.1	0.04	5.4	<0.1	0.07	5	<0.5	<0.2
992012	Soil	15	0.21	666	0.033	2	0.76	0.006	0.10	0.2	0.04	3.0	<0.1	0.13	4	<0.5	<0.2
992013	Soil	18	0.28	286	0.032	2	0.79	0.006	0.08	0.1	0.03	2.6	<0.1	0.08	4	<0.5	<0.2
992014	Soil	21	0.40	264	0.017	2	1.16	0.007	0.13	<0.1	0.03	3.0	<0.1	0.12	5	<0.5	<0.2
992015	Soil	21	0.39	229	0.039	1	1.14	0.007	0.08	<0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
992016	Soil	19	0.37	216	0.031	<1	1.15	0.006	0.06	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
992017	Soil	19	0.39	173	0.031	1	1.08	0.007	0.06	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
992018	Soil	21	0.39	184	0.029	1	1.20	0.008	0.09	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
992019	Soil	21	0.39	191	0.030	1	1.23	0.007	0.05	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992020	Soil	20	0.37	163	0.036	4	1.32	0.008	0.12	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
992021	Soil	21	0.37	217	0.034	<1	1.13	0.006	0.06	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
992022	Soil	44	0.83	285	0.023	2	2.67	0.019	0.16	<0.1	0.07	12.0	0.1	<0.05	7	<0.5	<0.2
992023	Soil	47	0.84	479	0.008	<1	4.50	0.021	0.17	<0.1	0.05	15.5	0.1	0.09	10	<0.5	<0.2
992024	Soil	46	0.86	476	0.007	<1	4.26	0.021	0.14	<0.1	0.06	15.7	0.1	0.11	9	<0.5	<0.2
992025	Soil	21	0.38	189	0.042	<1	1.13	0.007	0.06	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
992026	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.
992027	Soil	22	0.43	142	0.040	<1	1.11	0.007	0.05	0.1	0.02	2.6	<0.1	0.05	4	<0.5	<0.2
992028	Soil	30	0.65	126	0.041	<1	1.58	0.009	0.09	0.1	0.04	6.1	<0.1	<0.05	5	<0.5	<0.2
992029	Soil	28	0.52	201	0.037	<1	1.63	0.013	0.06	0.1	<0.01	4.8	<0.1	0.15	6	<0.5	<0.2
992030	Soil	22	0.43	279	0.041	1	1.25	0.008	0.07	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
992031	Soil	24	0.50	152	0.055	<1	1.33	0.007	0.07	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
992032	Soil	27	0.61	151	0.041	1	1.60	0.010	0.09	<0.1	0.01	4.8	<0.1	0.07	5	<0.5	<0.2
992033	Soil	19	0.36	195	0.039	<1	1.00	0.008	0.08	<0.1	0.02	2.8	<0.1	0.09	4	<0.5	<0.2
992034	Soil	23	0.49	228	0.033	2	1.21	0.007	0.11	0.1	0.02	2.8	<0.1	0.13	4	<0.5	<0.2
992035	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.

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992036	Soil	0.7	49.6	8.4	128	0.6	46.5	11.4	639	3.24	7.9	0.6	1.2	70	1.0	0.3	0.2	65	1.10	0.101	12
992037	Soil	0.5	9.9	8.6	142	<0.1	14.5	8.7	823	2.45	6.1	<0.5	0.5	25	0.4	0.3	0.1	57	0.29	0.051	5
992038	Soil	0.7	20.1	8.7	107	0.1	23.1	11.0	808	2.81	6.1	1.3	0.4	30	0.3	0.4	0.1	63	0.25	0.037	8
992039	Soil	0.8	15.8	8.1	78	<0.1	21.6	9.9	594	2.98	8.6	1.3	0.6	26	0.1	0.4	0.1	65	0.21	0.026	6
992040	Soil	0.5	7.9	6.9	90	0.1	12.0	7.4	577	2.24	3.5	<0.5	0.3	27	0.2	0.2	0.1	55	0.31	0.028	5
992041	Soil	0.7	19.6	7.9	222	0.2	19.0	10.9	1220	2.52	5.2	<0.5	0.4	55	1.4	0.3	0.1	55	0.66	0.069	4
992042	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.
992043	Soil	0.9	34.5	6.0	148	0.4	31.2	9.6	933	2.31	5.9	<0.5	0.6	61	0.8	0.3	0.5	45	0.60	0.094	12
992044	Soil	0.9	33.8	6.9	67	0.2	22.2	3.8	117	1.61	3.5	1.2	0.8	53	1.1	0.4	0.4	28	0.58	0.089	10
992045	Soil	0.5	20.5	6.8	189	0.2	20.1	8.2	1085	2.43	5.0	2.1	0.2	47	1.2	0.3	0.2	43	0.45	0.089	6
992046	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.
992047	Soil	0.4	21.4	7.2	273	0.2	18.6	8.8	1085	2.46	4.2	0.6	0.4	30	1.4	0.2	0.1	44	0.30	0.091	6
992048	Soil	0.7	34.0	9.9	160	0.2	23.8	9.8	542	2.79	9.6	3.3	0.6	44	0.9	0.4	0.1	48	1.00	0.072	8
992049	Soil	0.9	35.7	10.3	165	0.3	25.3	9.5	473	3.44	13.2	1.1	0.7	44	1.0	0.4	0.2	55	0.51	0.057	8
992050	Soil	0.7	11.7	8.9	142	<0.1	12.1	7.9	467	2.47	5.5	<0.5	0.6	20	1.2	0.3	<0.1	54	0.20	0.044	5
992051	Soil	0.7	10.5	9.2	196	0.1	11.4	8.2	1163	2.71	6.5	<0.5	0.5	25	0.8	0.3	<0.1	54	0.36	0.148	6
992052	Soil	0.7	11.3	10.1	172	0.1	14.4	9.7	634	3.32	11.7	<0.5	0.8	14	0.4	0.4	<0.1	71	0.21	0.143	5
992053	Soil	0.7	12.9	11.5	163	0.1	14.2	10.5	695	3.50	17.2	<0.5	0.9	19	0.7	0.5	<0.1	75	0.30	0.072	5
992054	Soil	0.8	32.9	18.4	191	0.3	20.4	12.7	1132	3.84	24.1	2.2	1.0	29	1.0	0.7	<0.1	83	0.46	0.061	10
992055	Soil	0.7	22.7	15.8	168	0.2	18.0	12.0	1135	3.63	24.0	<0.5	0.7	36	0.8	0.7	<0.1	81	0.56	0.074	8
992056	Soil	0.9	36.5	5.8	111	0.5	27.7	6.9	769	2.00	5.2	1.1	0.6	115	2.0	0.3	0.1	31	1.51	0.085	9
992057	Soil	0.7	27.6	6.4	82	0.4	23.9	6.9	611	2.19	6.0	1.7	0.2	98	1.2	0.5	<0.1	37	1.34	0.087	12
992058	Soil	0.4	38.8	7.0	523	0.3	15.3	9.1	2078	1.97	2.6	0.7	0.2	63	2.8	0.2	0.1	37	0.67	0.142	5
992059	Soil	0.4	25.4	6.4	381	0.2	16.8	7.9	1484	2.11	3.4	<0.5	0.2	49	3.2	0.3	<0.1	39	0.51	0.078	5
992060	Soil	0.6	17.4	9.5	76	0.1	16.9	8.9	497	2.69	9.3	0.5	0.7	25	0.3	0.4	<0.1	53	0.24	0.027	6
992061	Soil	0.5	20.5	11.2	77	0.1	16.6	8.4	534	2.87	12.4	<0.5	0.8	25	0.5	0.5	<0.1	54	0.22	0.031	7
992062	Soil	0.9	17.4	19.3	284	0.2	17.6	10.0	843	4.13	18.8	<0.5	0.4	23	1.2	0.6	<0.1	79	0.30	0.109	5
992063	Soil	1.3	14.4	42.7	383	0.4	9.2	13.0	4313	3.42	7.5	1.5	0.3	26	3.6	0.5	0.2	71	0.26	0.058	5
992064	Soil	0.6	11.3	30.8	495	0.2	8.1	8.5	1941	3.12	6.5	0.7	0.4	54	4.8	0.5	0.2	62	0.58	0.091	4
992065	Soil	1.0	80.5	33.6	614	1.0	35.1	13.7	4314	3.91	9.8	<0.5	0.8	65	6.8	0.4	0.2	64	0.67	0.168	29

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992036	Soil	38	0.72	450	0.009	1	3.12	0.017	0.15	<0.1	0.06	11.7	0.1	0.09	7	<0.5	<0.2
992037	Soil	20	0.34	178	0.032	<1	1.09	0.007	0.05	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
992038	Soil	26	0.53	141	0.031	<1	1.53	0.009	0.08	<0.1	<0.01	3.9	<0.1	0.09	5	<0.5	<0.2
992039	Soil	24	0.53	126	0.040	<1	1.32	0.009	0.05	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
992040	Soil	17	0.31	144	0.032	<1	0.87	0.006	0.05	0.1	<0.01	1.9	<0.1	0.10	4	<0.5	<0.2
992041	Soil	19	0.36	237	0.035	2	0.97	0.006	0.09	<0.1	0.01	2.3	<0.1	0.11	4	<0.5	<0.2
992042	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.
992043	Soil	27	0.55	320	0.013	4	2.10	0.011	0.13	<0.1	0.05	6.1	0.1	<0.05	6	<0.5	<0.2
992044	Soil	18	0.26	279	0.012	4	1.68	0.011	0.09	<0.1	0.05	6.3	0.1	<0.05	5	<0.5	<0.2
992045	Soil	20	0.44	266	0.017	2	1.37	0.006	0.09	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
992046	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.
992047	Soil	17	0.34	245	0.036	1	1.08	0.007	0.08	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
992048	Soil	22	0.46	267	0.014	3	1.51	0.016	0.08	<0.1	0.06	6.4	<0.1	<0.05	5	<0.5	<0.2
992049	Soil	26	0.52	218	0.009	1	1.98	0.008	0.10	<0.1	0.04	7.6	<0.1	<0.05	6	<0.5	<0.2
992050	Soil	16	0.30	174	0.034	1	0.98	0.008	0.06	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
992051	Soil	17	0.35	298	0.036	2	1.00	0.006	0.09	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
992052	Soil	19	0.43	219	0.035	2	1.14	0.006	0.11	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
992053	Soil	18	0.40	171	0.043	1	1.05	0.007	0.10	0.1	<0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
992054	Soil	22	0.60	334	0.032	1	1.47	0.016	0.06	<0.1	0.06	8.3	<0.1	<0.05	5	0.7	<0.2
992055	Soil	20	0.56	231	0.038	2	1.25	0.013	0.10	<0.1	0.03	6.8	<0.1	<0.05	5	<0.5	<0.2
992056	Soil	18	0.44	419	0.003	2	1.60	0.008	0.12	0.1	0.09	6.4	<0.1	0.07	4	0.6	<0.2
992057	Soil	19	0.42	396	0.009	4	1.45	0.009	0.08	<0.1	0.03	5.7	<0.1	<0.05	4	0.8	<0.2
992058	Soil	15	0.23	746	0.027	2	0.88	0.006	0.09	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
992059	Soil	16	0.32	426	0.029	2	0.96	0.006	0.10	<0.1	0.02	2.7	<0.1	<0.05	4	0.6	<0.2
992060	Soil	20	0.41	150	0.034	<1	1.26	0.011	0.04	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
992061	Soil	19	0.39	160	0.044	<1	1.31	0.016	0.04	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
992062	Soil	21	0.54	255	0.037	2	1.52	0.008	0.10	0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
992063	Soil	16	0.27	601	0.041	1	0.90	0.006	0.08	0.1	<0.01	4.2	0.1	<0.05	6	<0.5	<0.2
992064	Soil	16	0.25	483	0.041	2	0.75	0.006	0.11	0.2	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
992065	Soil	30	0.55	806	0.009	1	3.11	0.011	0.16	0.1	0.07	11.2	0.3	<0.05	8	1.5	<0.2

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Project: ZNT  
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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.001	1
992066	Soil		0.7	54.5	27.1	399	0.6	42.8	12.3	2416	3.69	7.6	<0.5	0.6	72	5.0	0.3	0.2	56	0.58	0.140	15
992067	Soil		0.8	57.6	26.4	318	0.5	43.1	12.2	1505	3.96	8.9	<0.5	0.7	80	2.8	0.5	<0.1	69	0.67	0.127	15
992068	Soil		0.8	78.4	16.0	198	0.6	55.3	11.3	1168	3.30	6.3	<0.5	0.9	76	3.0	0.2	0.7	50	0.64	0.156	17
992069	Soil		0.6	19.5	7.4	119	0.1	16.6	11.5	1486	2.85	5.7	<0.5	0.2	34	0.9	0.3	<0.1	51	0.32	0.059	6
992070	Soil		0.6	11.0	5.2	122	<0.1	10.8	6.8	1111	1.76	2.8	<0.5	0.1	63	2.1	0.2	0.1	38	0.68	0.044	4
992071	Soil		0.6	41.5	8.2	163	0.4	29.6	12.5	1741	3.22	4.6	<0.5	0.3	46	0.9	0.2	0.1	50	0.45	0.093	11
992072	Soil		0.8	62.6	10.6	183	0.5	38.8	13.2	1219	3.61	6.3	2.6	0.8	61	1.0	0.3	<0.1	57	0.61	0.093	12
992073	Soil		0.7	31.1	8.6	159	0.2	27.2	10.1	1379	3.16	6.7	<0.5	0.2	35	0.9	0.3	0.1	54	0.32	0.075	9
992074	Soil		0.5	14.7	6.7	112	<0.1	18.2	8.6	899	2.82	6.2	0.5	0.2	22	0.6	0.2	<0.1	54	0.21	0.040	6
992075	Soil		0.4	11.3	6.8	95	<0.1	13.3	7.1	628	2.37	4.5	<0.5	0.2	25	0.4	0.3	<0.1	47	0.19	0.040	5
992076	Soil		0.7	25.4	7.8	102	0.3	23.9	9.3	974	2.46	4.2	<0.5	0.2	31	1.1	0.3	0.1	45	0.28	0.051	8
992077	Soil		0.6	15.2	6.9	94	0.1	18.9	7.2	461	2.74	6.9	<0.5	0.3	25	0.1	0.4	<0.1	50	0.24	0.034	6
992078	Soil		0.8	26.0	7.8	100	0.2	23.8	9.1	694	2.87	7.8	1.6	0.2	34	0.9	0.3	0.2	51	0.30	0.057	8
992079	Soil		0.6	15.8	7.1	93	<0.1	18.4	8.2	654	2.59	6.7	2.0	0.2	27	0.6	0.3	0.1	49	0.25	0.042	6
992080	Soil		0.6	12.9	9.3	104	<0.1	16.8	9.7	618	2.89	8.3	1.0	0.4	28	0.5	0.4	0.1	55	0.33	0.055	5
992081	Soil		0.7	20.1	11.9	117	<0.1	20.0	11.3	795	2.95	9.9	1.8	0.5	29	0.4	0.5	0.1	53	0.38	0.043	6
992082	Soil		0.7	23.3	8.8	102	0.2	19.4	7.9	555	2.62	7.4	<0.5	0.2	29	0.8	0.4	0.1	52	0.29	0.045	7
992083	Soil		0.7	19.7	8.3	110	0.1	18.7	8.5	806	2.81	9.2	2.0	0.4	36	0.5	0.4	0.1	51	0.37	0.052	6
992084	Soil		0.8	60.5	9.4	176	0.7	44.1	9.4	802	2.87	12.3	<0.5	0.6	100	2.9	0.5	0.1	41	1.19	0.120	17
992085	Soil		0.8	21.4	13.0	204	<0.1	20.2	10.7	939	2.94	10.3	0.9	0.5	59	2.1	0.4	0.1	53	0.91	0.111	5
992086	Soil		0.9	25.5	15.7	123	<0.1	22.9	12.5	835	3.29	17.3	0.5	0.9	36	0.7	0.5	0.1	60	0.50	0.064	8
992087	Soil		0.8	47.6	12.9	191	0.5	28.4	7.6	729	2.42	36.1	1.3	0.5	108	2.6	0.6	0.1	39	1.54	0.082	9
992088	Soil		0.7	59.8	17.3	241	0.6	41.5	12.5	1125	4.10	112.6	<0.5	1.9	90	1.4	0.6	0.2	72	1.17	0.112	10
992089	Soil		0.9	40.8	14.6	144	0.4	26.2	10.1	910	3.09	126.5	0.9	0.7	77	1.1	0.5	0.1	51	1.14	0.071	8
992090	Soil		0.5	13.8	9.4	243	0.1	13.9	10.1	1284	2.29	4.0	<0.5	0.4	32	4.6	0.3	0.1	44	0.53	0.061	5
992091	Soil		0.8	65.3	11.7	215	0.5	32.5	10.8	1085	2.90	67.5	0.9	0.4	75	2.8	0.3	0.1	48	1.13	0.090	14
992092	Soil		0.7	25.2	23.6	200	0.2	23.3	12.3	1163	3.05	8.3	1.9	0.5	45	3.1	0.4	0.1	53	0.72	0.050	6
992093	Soil		0.6	28.3	19.3	348	0.3	19.5	10.7	1017	3.18	8.6	<0.5	0.4	38	3.5	0.4	0.1	56	0.49	0.142	6
992094	Soil		0.9	53.7	16.2	188	0.6	36.3	11.4	852	3.76	28.6	1.2	0.9	72	1.4	0.6	0.1	61	1.20	0.102	11
992095	Soil		0.6	14.4	10.7	155	0.1	17.3	10.8	809	2.65	11.0	0.6	0.5	29	1.5	0.4	0.1	52	0.41	0.076	5

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SMI12000505.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992066	Soil			29	0.56	468	0.006	1	2.89	0.013	0.18	<0.1	0.05	7.6	0.1	<0.05	9	<0.5	<0.2
992067	Soil			31	0.66	428	0.009	3	3.21	0.015	0.20	0.2	0.03	7.9	0.2	<0.05	9	<0.5	<0.2
992068	Soil			28	0.66	431	0.005	2	3.12	0.009	0.18	0.1	0.08	8.3	0.2	<0.05	8	<0.5	<0.2
992069	Soil			19	0.36	176	0.013	<1	1.15	0.005	0.12	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
992070	Soil			13	0.27	141	0.020	4	0.68	0.004	0.11	<0.1	0.05	1.5	<0.1	<0.05	3	0.6	<0.2
992071	Soil			24	0.43	310	0.005	<1	2.00	0.008	0.13	<0.1	0.03	4.5	<0.1	<0.05	7	0.8	<0.2
992072	Soil			31	0.60	334	0.011	<1	2.59	0.011	0.20	<0.1	0.03	7.6	0.1	<0.05	8	1.2	<0.2
992073	Soil			24	0.51	194	0.007	<1	2.00	0.008	0.11	<0.1	0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
992074	Soil			20	0.39	96	0.020	2	1.40	0.006	0.07	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
992075	Soil			16	0.34	139	0.027	<1	0.99	0.006	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
992076	Soil			17	0.33	172	0.015	<1	1.32	0.007	0.11	<0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
992077	Soil			21	0.49	111	0.025	<1	1.34	0.008	0.07	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
992078	Soil			23	0.54	159	0.010	<1	1.65	0.008	0.10	<0.1	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
992079	Soil			20	0.46	131	0.017	<1	1.21	0.009	0.09	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
992080	Soil			19	0.47	117	0.026	1	1.40	0.009	0.08	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992081	Soil			22	0.52	149	0.027	1	1.47	0.008	0.08	<0.1	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
992082	Soil			21	0.43	142	0.019	1	1.32	0.008	0.09	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
992083	Soil			21	0.50	170	0.018	<1	1.44	0.009	0.08	0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
992084	Soil			25	0.58	374	0.004	2	2.36	0.011	0.15	<0.1	0.17	8.4	<0.1	0.12	6	0.8	<0.2
992085	Soil			20	0.48	183	0.032	4	1.20	0.008	0.10	<0.1	0.04	3.8	<0.1	0.06	4	<0.5	<0.2
992086	Soil			24	0.59	158	0.029	2	1.59	0.013	0.10	<0.1	0.03	6.4	<0.1	0.06	5	<0.5	<0.2
992087	Soil			20	0.53	343	0.007	3	1.70	0.012	0.11	<0.1	0.08	6.9	<0.1	0.15	4	0.7	<0.2
992088	Soil			38	0.83	420	0.014	5	3.64	0.031	0.27	<0.1	0.05	14.0	0.2	0.07	9	0.7	<0.2
992089	Soil			24	0.62	245	0.012	4	1.79	0.012	0.10	<0.1	0.08	8.0	<0.1	0.07	5	0.7	<0.2
992090	Soil			16	0.36	155	0.046	2	0.91	0.007	0.08	0.1	0.03	2.8	<0.1	0.07	4	<0.5	<0.2
992091	Soil			26	0.59	338	0.008	2	1.91	0.009	0.14	0.1	0.11	6.2	<0.1	<0.05	6	0.6	<0.2
992092	Soil			23	0.56	176	0.027	2	1.58	0.010	0.11	<0.1	0.03	5.5	<0.1	0.08	5	<0.5	<0.2
992093	Soil			22	0.39	357	0.016	1	1.35	0.008	0.14	<0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
992094	Soil			32	0.75	314	0.009	3	2.46	0.014	0.15	0.1	0.08	10.4	0.1	0.13	6	0.9	<0.2
992095	Soil			20	0.42	145	0.047	2	1.16	0.007	0.09	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992096	Soil	0.5	10.4	8.8	285	0.1	16.5	8.8	650	2.79	8.1	1.7	0.6	22	0.9	0.3	0.1	56	0.30	0.058	5
992097	Soil	0.7	18.5	13.0	176	0.2	20.0	10.0	663	2.95	14.1	37.1	0.4	29	1.4	0.4	<0.1	58	0.42	0.043	5
992098	Soil	0.9	32.7	14.8	116	0.3	23.4	10.6	782	3.46	123.5	<0.5	0.5	40	0.8	0.4	0.1	63	0.43	0.041	6
992099	Soil	0.6	35.5	10.4	136	0.2	25.9	9.8	691	3.18	27.3	0.7	0.9	44	1.1	0.5	0.2	59	0.52	0.041	9
992100	Soil	0.6	18.9	7.7	98	0.1	19.8	10.3	791	2.94	8.6	0.7	0.5	32	0.4	0.4	<0.1	55	0.33	0.049	6
992101	Soil	0.4	9.7	5.8	100	0.1	12.0	7.9	614	2.35	4.2	<0.5	0.3	42	0.4	0.2	<0.1	55	0.47	0.043	4
992102	Soil	0.7	31.6	5.8	103	0.3	29.0	9.7	824	2.85	7.1	<0.5	0.3	44	0.5	0.2	0.1	57	0.46	0.082	8
992103	Soil	1.0	56.5	7.0	166	0.6	53.1	11.2	2049	3.23	6.9	1.1	0.7	89	1.2	0.3	0.1	52	1.02	0.183	14
992104	Soil	0.6	21.8	7.2	257	0.2	20.3	9.9	1490	2.75	7.6	0.6	0.2	47	1.4	0.3	0.1	54	0.50	0.066	5
992105	Soil	0.5	19.5	7.4	289	0.1	18.2	9.2	1148	2.58	6.2	<0.5	0.1	60	1.3	0.3	0.1	49	0.65	0.099	5
992106	Soil	0.5	19.7	6.7	178	0.2	18.2	10.0	921	2.65	6.1	1.1	0.2	45	1.3	0.3	0.1	51	0.43	0.071	5
992107	Soil	0.4	25.1	7.4	315	0.1	21.8	10.5	1143	2.80	6.9	<0.5	0.6	43	1.9	0.3	0.1	56	0.40	0.038	5
992108	Soil	0.5	22.8	7.9	272	0.2	20.3	11.7	1219	2.83	6.3	<0.5	0.6	47	1.4	0.3	0.1	54	0.49	0.162	6
992109	Soil	0.8	23.2	12.5	219	0.3	20.1	11.6	1439	3.35	13.5	1.5	0.4	46	1.5	0.4	0.1	65	0.57	0.094	7
992110	Soil	0.9	32.6	13.8	255	0.3	19.8	12.2	1721	3.53	17.0	<0.5	0.4	57	2.0	0.4	0.1	69	0.91	0.148	7
992111	Soil	0.8	27.8	14.6	154	0.3	19.1	11.5	912	3.35	20.4	1.4	0.8	42	1.0	0.6	<0.1	71	0.92	0.061	8
992112	Soil	0.9	24.0	15.0	202	0.2	18.4	13.1	1262	3.95	22.8	1.2	0.8	33	1.4	0.6	<0.1	91	0.67	0.080	7
992113	Soil	0.9	42.8	14.5	268	0.3	30.2	14.8	1500	3.97	20.3	1.0	1.2	38	1.9	0.5	0.1	76	0.71	0.075	11
992114	Soil	0.7	40.4	12.3	236	0.3	25.8	10.7	1080	3.37	12.8	3.8	0.5	35	2.8	0.4	0.2	58	0.68	0.062	10
992115	Soil	0.7	24.9	8.3	398	0.2	20.0	10.5	1479	2.72	4.0	2.2	0.2	36	2.8	0.3	0.2	45	0.40	0.149	6
992116	Soil	0.7	22.0	11.6	216	0.2	16.6	10.5	847	3.03	11.4	1.9	0.5	30	1.8	0.3	0.1	57	0.42	0.068	5
992117	Soil	0.4	16.5	6.7	275	0.2	17.1	8.9	841	2.62	4.7	2.4	0.4	35	1.1	0.2	0.2	44	0.39	0.078	5
992118	Soil	0.4	17.2	6.8	279	0.2	15.1	8.4	1013	2.36	2.8	0.8	0.3	36	0.9	0.2	0.1	38	0.45	0.124	5
992119	Soil	0.5	13.5	7.6	174	<0.1	19.2	10.4	1408	2.60	4.7	0.9	0.4	33	0.9	0.3	0.2	46	0.33	0.045	5
992120	Soil	0.6	15.9	6.9	161	<0.1	18.2	9.2	930	2.67	5.1	<0.5	0.4	37	0.7	0.3	0.1	45	0.31	0.059	7
992121	Soil	0.5	14.9	6.2	130	0.1	19.9	9.0	666	2.79	5.9	2.7	0.6	26	0.3	0.4	0.1	48	0.25	0.032	6
992122	Soil	0.8	28.6	10.6	116	0.1	25.2	13.1	892	3.41	10.9	2.6	1.0	38	0.2	0.5	0.2	58	0.36	0.044	7
992123	Soil	1.6	42.6	10.0	112	0.3	37.4	12.4	613	3.64	11.5	2.5	1.5	59	0.1	0.6	0.1	65	0.48	0.060	10
992124	Soil	1.0	43.5	7.7	81	<0.1	30.8	11.3	821	3.91	12.2	3.8	1.6	53	0.2	0.7	<0.1	75	0.44	0.049	10
992125	Soil	0.6	17.4	7.0	111	0.1	18.7	10.4	1304	2.83	5.4	1.9	0.3	31	0.3	0.3	0.2	55	0.26	0.058	7

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992096	Soil	20	0.45	166	0.047	2	1.20	0.007	0.09	0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
992097	Soil	22	0.47	137	0.042	2	1.25	0.011	0.09	0.1	0.04	3.5	<0.1	<0.05	4	<0.5	<0.2
992098	Soil	26	0.50	227	0.014	2	1.65	0.008	0.10	<0.1	0.02	5.2	<0.1	<0.05	6	0.5	<0.2
992099	Soil	26	0.62	238	0.028	1	1.63	0.014	0.10	<0.1	0.02	6.6	<0.1	<0.05	5	<0.5	<0.2
992100	Soil	21	0.51	140	0.027	<1	1.41	0.010	0.09	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
992101	Soil	17	0.35	147	0.034	3	1.03	0.008	0.08	<0.1	<0.01	2.4	<0.1	0.14	4	<0.5	<0.2
992102	Soil	26	0.59	203	0.008	1	2.16	0.012	0.14	<0.1	0.03	4.7	<0.1	0.14	6	<0.5	<0.2
992103	Soil	28	0.75	330	0.005	2	2.96	0.015	0.23	<0.1	0.05	7.1	<0.1	0.13	7	<0.5	<0.2
992104	Soil	20	0.45	251	0.029	2	1.24	0.008	0.10	<0.1	0.03	2.9	<0.1	0.06	4	<0.5	<0.2
992105	Soil	18	0.41	306	0.020	2	1.29	0.007	0.11	<0.1	0.03	2.2	<0.1	0.07	5	<0.5	<0.2
992106	Soil	19	0.40	196	0.027	<1	1.16	0.008	0.11	<0.1	0.02	2.9	<0.1	0.07	5	<0.5	<0.2
992107	Soil	20	0.43	234	0.045	1	1.20	0.008	0.09	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
992108	Soil	19	0.38	350	0.039	2	1.20	0.008	0.15	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
992109	Soil	20	0.48	285	0.027	2	1.35	0.012	0.14	<0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
992110	Soil	22	0.51	435	0.024	4	1.48	0.010	0.18	<0.1	0.02	4.9	<0.1	0.12	5	0.6	<0.2
992111	Soil	22	0.60	295	0.026	2	1.48	0.016	0.08	0.1	0.05	7.8	<0.1	0.05	5	<0.5	<0.2
992112	Soil	23	0.56	260	0.039	2	1.28	0.015	0.10	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
992113	Soil	26	0.57	362	0.024	2	1.89	0.014	0.14	<0.1	0.02	10.6	<0.1	<0.05	6	0.6	<0.2
992114	Soil	22	0.44	333	0.020	3	1.57	0.009	0.08	<0.1	0.05	7.0	<0.1	0.05	5	<0.5	<0.2
992115	Soil	18	0.37	359	0.034	3	1.22	0.007	0.11	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
992116	Soil	17	0.38	182	0.036	3	1.07	0.008	0.06	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
992117	Soil	17	0.39	199	0.033	3	1.12	0.009	0.10	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
992118	Soil	17	0.35	254	0.025	3	1.16	0.007	0.09	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
992119	Soil	17	0.35	214	0.036	3	1.11	0.007	0.09	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
992120	Soil	19	0.42	191	0.029	2	1.21	0.009	0.09	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
992121	Soil	19	0.51	138	0.043	2	1.33	0.010	0.07	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
992122	Soil	25	0.60	157	0.034	2	1.64	0.013	0.10	<0.1	0.05	6.4	<0.1	<0.05	5	<0.5	<0.2
992123	Soil	37	0.73	251	0.033	3	1.99	0.024	0.12	<0.1	0.12	10.0	<0.1	<0.05	6	<0.5	<0.2
992124	Soil	36	0.73	222	0.046	3	2.15	0.026	0.11	0.3	0.03	12.0	0.1	<0.05	6	<0.5	0.3
992125	Soil	20	0.42	211	0.033	2	1.39	0.009	0.06	0.1	<0.01	4.0	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.001	0.001	1	
992126	Soil		0.7	12.2	7.1	100	<0.1	19.0	10.9	932	3.09	8.3	0.7	0.6	31	0.2	0.5	0.1	60	0.24	0.033	5
992127	Soil		0.7	30.4	7.4	123	0.2	31.2	11.8	1274	3.37	8.6	1.9	0.5	51	0.4	0.3	0.2	56	0.46	0.098	9
992128	Soil		0.4	11.6	5.4	76	<0.1	14.9	7.5	498	2.66	5.4	0.7	0.6	22	0.1	0.4	<0.1	53	0.17	0.035	5
992129	Soil		0.4	18.7	6.9	194	0.2	20.1	10.7	1958	2.66	3.9	1.1	0.3	42	1.2	0.2	0.1	50	0.39	0.081	6
992130	Soil		0.3	15.0	6.2	186	<0.1	17.0	10.4	1088	2.68	4.6	<0.5	0.5	41	0.9	0.4	0.2	49	0.50	0.062	4
992131	Soil		0.8	46.3	7.7	110	0.4	47.5	14.0	1335	3.76	8.5	2.3	0.8	68	1.2	0.4	0.2	59	0.82	0.087	8
992132	Soil		0.6	12.6	5.8	107	<0.1	13.7	9.3	845	2.50	3.2	1.1	0.4	25	0.3	0.2	0.2	49	0.24	0.052	5
992133	Soil		0.7	17.3	7.0	169	<0.1	20.3	11.7	876	3.09	7.1	<0.5	0.7	29	0.4	0.4	0.1	55	0.30	0.038	6
992134	Soil		0.6	38.7	8.1	216	0.4	36.7	10.9	966	3.44	8.3	2.4	0.9	43	1.4	0.4	0.2	56	0.55	0.067	11
992135	Soil		0.6	21.1	6.6	147	0.3	19.5	8.4	1057	2.55	4.7	0.5	0.2	36	0.3	0.3	0.2	47	0.34	0.057	8
992136	Soil		0.8	26.4	9.5	71	<0.1	22.2	10.6	659	3.33	14.5	2.4	1.0	44	0.1	0.5	<0.1	60	0.40	0.033	6
992137	Soil		0.4	13.2	7.0	160	<0.1	13.3	9.7	1122	2.39	4.4	1.6	0.3	45	0.5	0.2	0.2	44	0.46	0.077	5
992138	Soil		0.7	14.7	7.8	117	0.1	16.9	9.2	1157	2.66	6.5	0.6	0.2	36	0.3	0.3	0.2	51	0.30	0.061	5
992139	Soil		0.4	15.9	7.4	276	0.1	14.7	8.8	920	2.58	4.3	3.1	0.5	28	1.0	0.2	0.1	47	0.26	0.074	5
992140	Soil		0.6	15.2	7.9	222	0.1	20.0	10.8	1275	3.01	7.7	1.1	0.6	30	1.0	0.2	0.1	53	0.29	0.053	5
992141	Soil		0.8	24.6	8.4	140	0.3	19.2	10.3	783	2.56	7.6	0.5	0.2	36	1.8	0.2	0.1	45	0.44	0.052	5
992142	Soil		0.5	24.0	9.6	282	0.2	21.5	10.9	1716	2.94	6.5	1.2	0.5	27	4.7	0.3	<0.1	50	0.31	0.087	6
992143	Soil		0.7	21.4	8.0	202	0.1	15.0	8.8	652	2.58	3.2	<0.5	0.4	23	2.4	0.2	0.1	43	0.31	0.107	5
992144	Soil		1.6	40.6	7.0	125	0.2	30.2	15.3	3415	2.67	10.2	1.4	0.3	69	2.5	0.7	0.1	40	1.87	0.077	10
992145	Soil		0.8	20.5	14.8	272	0.3	13.2	11.8	1490	3.51	18.1	<0.5	0.3	30	2.4	0.5	0.1	68	0.59	0.079	5
992146	Soil		1.1	38.4	17.4	579	0.4	16.9	14.4	2538	3.41	12.1	<0.5	0.3	32	9.2	0.6	0.2	64	0.51	0.201	6
992147	Soil		0.9	47.4	16.6	358	0.4	19.3	12.5	1712	3.13	10.9	1.5	0.3	41	8.7	0.4	0.1	58	0.91	0.161	6
992148	Soil		0.8	28.9	15.4	193	0.3	20.0	12.3	1050	4.25	19.8	17.7	1.1	33	0.6	0.6	<0.1	96	0.67	0.076	9
992149	Soil		1.0	27.5	15.2	309	0.4	17.4	12.5	1665	3.41	14.4	<0.5	0.4	33	3.1	0.4	0.1	60	0.49	0.093	6
992150	Soil		0.4	13.4	9.7	71	0.2	11.1	4.0	117	1.70	4.2	1.4	0.2	42	0.8	0.2	<0.1	39	0.45	0.029	4
992151	Soil		1.0	36.0	10.6	120	0.4	27.4	10.0	736	2.91	10.6	1.3	0.4	56	1.2	0.4	0.1	61	0.65	0.114	15
992152	Soil		0.6	17.1	7.8	81	<0.1	21.9	10.5	594	3.01	9.0	<0.5	0.7	30	0.3	0.4	0.1	61	0.32	0.038	6
992153	Soil		0.6	27.1	9.0	102	0.2	24.5	13.7	1127	3.25	10.3	<0.5	0.6	40	0.5	0.4	0.1	58	0.41	0.062	8
992154	Soil		0.6	33.1	7.8	130	0.3	26.1	10.7	1040	2.91	6.1	<0.5	0.3	54	0.9	0.3	0.1	55	0.56	0.079	9
992155	Soil		0.8	37.8	6.1	68	0.3	26.2	7.8	547	2.26	5.4	<0.5	0.3	58	1.1	0.3	0.1	51	0.63	0.052	12

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Project: ZNT  
 Report Date: November 07, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992126	Soil	20	0.46	181	0.029	2	1.41	0.009	0.04	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
992127	Soil	27	0.58	227	0.015	2	2.04	0.009	0.15	<0.1	0.04	5.8	<0.1	<0.05	6	<0.5	<0.2
992128	Soil	17	0.39	125	0.050	2	1.10	0.008	0.05	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
992129	Soil	19	0.36	403	0.035	2	1.28	0.007	0.08	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
992130	Soil	17	0.39	208	0.047	3	0.94	0.007	0.08	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
992131	Soil	35	0.76	282	0.008	2	2.75	0.014	0.17	<0.1	0.05	8.6	<0.1	<0.05	8	<0.5	<0.2
992132	Soil	16	0.33	157	0.043	2	1.08	0.008	0.08	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
992133	Soil	21	0.49	189	0.040	2	1.36	0.008	0.08	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
992134	Soil	29	0.64	253	0.019	3	2.33	0.016	0.12	<0.1	0.02	8.8	<0.1	0.07	6	<0.5	<0.2
992135	Soil	20	0.44	165	0.019	2	1.45	0.010	0.09	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
992136	Soil	24	0.55	143	0.040	2	1.43	0.013	0.10	0.1	0.04	6.4	<0.1	<0.05	4	<0.5	<0.2
992137	Soil	16	0.34	183	0.032	3	1.05	0.006	0.10	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
992138	Soil	18	0.35	299	0.029	2	1.22	0.007	0.07	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
992139	Soil	16	0.33	216	0.042	2	1.05	0.007	0.09	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
992140	Soil	21	0.45	189	0.037	2	1.35	0.008	0.07	0.1	<0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
992141	Soil	18	0.36	180	0.017	2	1.28	0.008	0.07	<0.1	0.04	3.4	<0.1	0.07	5	<0.5	<0.2
992142	Soil	19	0.39	279	0.034	2	1.26	0.008	0.08	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
992143	Soil	17	0.29	253	0.031	2	1.04	0.007	0.08	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
992144	Soil	19	0.43	399	0.008	4	1.35	0.011	0.06	<0.1	0.07	4.6	<0.1	0.10	4	<0.5	<0.2
992145	Soil	18	0.43	457	0.029	2	1.17	0.008	0.11	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
992146	Soil	17	0.33	723	0.029	3	1.12	0.007	0.11	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
992147	Soil	17	0.34	479	0.026	3	1.09	0.009	0.11	<0.1	0.04	5.1	<0.1	0.07	4	<0.5	<0.2
992148	Soil	24	0.63	317	0.037	2	1.35	0.016	0.07	0.2	0.07	7.3	<0.1	<0.05	5	<0.5	<0.2
992149	Soil	18	0.41	403	0.031	3	1.19	0.007	0.16	0.1	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
992150	Soil	13	0.25	237	0.018	2	0.80	0.008	0.04	<0.1	0.03	2.6	<0.1	0.07	4	<0.5	<0.2
992151	Soil	25	0.55	264	0.008	2	1.89	0.012	0.08	0.3	0.10	6.4	0.1	0.09	5	<0.5	<0.2
992152	Soil	24	0.51	129	0.042	2	1.19	0.014	0.08	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
992153	Soil	25	0.54	211	0.017	2	1.55	0.011	0.09	<0.1	0.05	6.3	<0.1	<0.05	5	<0.5	<0.2
992154	Soil	25	0.54	253	0.013	2	1.64	0.008	0.11	<0.1	0.04	4.8	<0.1	0.07	5	<0.5	<0.2
992155	Soil	22	0.43	253	0.014	2	1.28	0.010	0.09	0.1	0.04	5.6	<0.1	0.11	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
992156	Soil			0.9	56.8	10.4	306	1.0	41.1	12.7	2358	3.33	7.4	1.4	0.9	113	2.5	0.4	0.2	59	1.25	0.150	17
992157	Soil			0.8	17.2	7.2	172	0.2	15.4	8.3	1040	2.22	6.0	0.8	0.1	77	1.7	0.3	0.1	44	0.93	0.100	4
992158	Soil			0.5	14.2	7.2	107	0.2	14.2	6.9	496	2.13	5.4	<0.5	0.2	47	0.7	0.2	0.1	48	0.50	0.047	5
992159	Soil			0.8	40.5	14.9	150	0.9	20.7	8.5	862	3.46	12.8	1.0	0.6	35	0.7	0.5	0.2	65	0.43	0.045	11
992160	Soil			0.7	29.2	13.1	142	0.3	21.1	10.4	807	3.16	13.0	2.4	0.8	40	0.8	0.5	0.1	62	0.52	0.074	9
992161	Soil			1.0	37.4	16.5	197	0.4	20.8	11.8	1807	3.50	23.4	5.7	0.3	32	1.7	0.5	0.1	77	0.70	0.087	6
992162	Soil			0.9	34.0	18.5	205	0.4	20.8	13.3	1293	3.77	22.1	<0.5	0.7	27	1.2	0.7	0.1	75	0.49	0.067	8
992163	Soil			0.9	28.5	13.0	250	0.3	21.4	12.9	1600	2.99	9.1	<0.5	0.3	30	2.5	0.4	0.1	60	0.47	0.058	6
992164	Soil			0.7	11.7	17.3	369	0.1	9.3	8.6	1809	2.53	4.1	<0.5	0.3	25	1.6	0.3	0.2	53	0.39	0.089	5
992165	Soil			0.5	9.6	6.3	151	<0.1	11.3	7.0	637	2.29	3.2	<0.5	0.4	17	0.4	0.3	0.1	47	0.18	0.033	5
992166	Soil			0.5	23.7	9.6	107	0.3	21.3	7.6	528	2.86	8.3	1.7	0.8	39	0.8	0.4	0.1	59	0.59	0.036	9
992167	Soil			1.0	21.9	6.8	159	0.1	18.5	8.5	568	2.51	5.9	<0.5	0.5	31	1.1	0.3	0.1	53	0.57	0.042	6
992168	Soil			0.6	162.5	12.0	184	1.9	58.0	12.1	633	4.20	8.1	2.1	1.8	58	3.4	0.8	0.2	75	1.39	0.188	24
992169	Soil			0.8	87.7	8.9	349	1.1	43.1	10.8	994	3.76	7.7	<0.5	1.0	77	3.8	0.5	0.2	59	1.87	0.146	20
992170	Soil			0.7	31.5	10.9	184	0.3	25.1	10.1	642	3.27	11.9	<0.5	0.7	39	0.8	0.4	0.1	63	0.99	0.058	8
992171	Soil			0.7	63.5	7.0	183	0.5	30.8	7.1	429	2.31	5.2	0.7	0.6	65	2.3	0.5	0.1	40	1.94	0.104	11
992172	Soil			0.7	40.2	5.1	89	0.3	20.3	4.7	243	1.60	4.0	<0.5	0.3	81	1.1	0.4	<0.1	23	2.54	0.117	9
992173	Soil			0.5	17.1	6.8	174	0.1	15.7	9.2	987	2.37	4.5	<0.5	0.3	38	0.6	0.2	0.1	47	0.43	0.051	5
992174	Soil			0.7	44.2	8.2	228	0.4	34.3	12.3	1876	2.88	5.7	<0.5	0.5	102	1.5	0.4	0.1	56	1.21	0.140	12
992175	Soil			0.6	17.9	8.4	123	0.1	17.9	11.8	924	2.68	4.2	<0.5	0.5	35	1.7	0.3	0.2	58	0.42	0.044	6
992176	Soil			0.8	18.5	9.6	76	<0.1	21.5	11.9	731	3.14	10.0	<0.5	0.9	43	0.3	0.5	0.1	68	0.47	0.071	6
992177	Soil			0.6	38.0	9.9	128	0.2	37.8	13.6	1459	3.32	7.6	<0.5	0.6	56	0.7	0.5	0.2	68	0.72	0.079	16
992178	Soil			0.5	11.3	8.4	216	0.1	17.2	9.4	1461	2.76	5.9	<0.5	0.5	33	0.6	0.3	0.1	58	0.37	0.124	5
992179	Soil			0.6	18.3	8.9	159	0.1	15.7	11.4	2193	2.56	3.3	<0.5	0.3	28	1.4	0.3	0.2	56	0.28	0.055	5
992180	Soil			0.7	51.8	10.6	221	0.3	44.4	16.6	2314	3.45	8.8	<0.5	0.5	64	1.5	0.3	0.2	69	0.72	0.126	9
992181	Soil			0.5	12.7	7.1	170	<0.1	18.7	11.9	1845	2.65	4.2	<0.5	0.5	34	0.7	0.3	0.1	63	0.35	0.052	5
992182	Soil			0.6	11.2	6.8	162	<0.1	17.0	9.9	664	2.92	5.8	<0.5	0.5	20	0.3	0.4	0.1	63	0.19	0.052	5
992183	Soil			1.3	56.7	10.5	169	0.6	51.5	15.4	1083	4.21	10.0	<0.5	1.2	77	0.7	0.5	0.3	95	1.02	0.118	13
992184	Soil			0.7	15.6	7.3	91	0.1	23.1	9.9	1017	2.76	8.7	0.5	0.6	42	0.4	0.3	0.2	64	0.59	0.049	6
992185	Soil			0.6	15.8	7.3	105	<0.1	18.2	9.2	480	2.62	6.8	<0.5	0.5	30	0.2	0.3	0.1	57	0.39	0.042	5

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992156	Soil	30	0.66	620	0.005	3	2.70	0.011	0.56	<0.1	0.12	13.4	0.2	0.17	6	<0.5	<0.2
992157	Soil	17	0.36	224	0.016	4	1.01	0.005	0.15	<0.1	0.04	1.9	<0.1	0.10	4	<0.5	<0.2
992158	Soil	18	0.38	159	0.021	2	1.13	0.009	0.06	0.1	0.03	2.7	<0.1	0.06	4	<0.5	<0.2
992159	Soil	25	0.53	579	0.017	<1	1.79	0.013	0.07	0.2	0.10	13.5	0.1	<0.05	5	<0.5	<0.2
992160	Soil	24	0.53	303	0.032	2	1.45	0.017	0.08	<0.1	0.05	7.0	<0.1	<0.05	4	<0.5	<0.2
992161	Soil	21	0.41	341	0.029	2	1.04	0.008	0.14	<0.1	0.03	4.3	<0.1	0.06	5	<0.5	<0.2
992162	Soil	23	0.51	292	0.029	2	1.47	0.015	0.09	<0.1	0.06	7.4	<0.1	<0.05	5	<0.5	<0.2
992163	Soil	22	0.42	345	0.022	2	1.35	0.007	0.11	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
992164	Soil	16	0.21	354	0.035	3	0.84	0.007	0.06	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
992165	Soil	17	0.29	163	0.040	1	0.92	0.007	0.05	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
992166	Soil	24	0.47	235	0.026	2	1.50	0.013	0.06	0.1	0.02	6.7	<0.1	<0.05	5	<0.5	<0.2
992167	Soil	21	0.42	229	0.027	2	1.24	0.008	0.06	<0.1	0.03	4.1	<0.1	0.07	4	<0.5	<0.2
992168	Soil	41	0.65	935	0.010	2	3.27	0.023	0.10	0.1	0.11	17.0	0.2	0.10	8	1.0	<0.2
992169	Soil	33	0.59	940	0.007	2	2.66	0.015	0.11	<0.1	0.07	12.1	<0.1	0.14	7	0.6	<0.2
992170	Soil	26	0.55	246	0.015	2	1.65	0.015	0.08	<0.1	0.05	6.8	<0.1	0.06	5	<0.5	<0.2
992171	Soil	20	0.42	379	0.010	2	1.58	0.011	0.05	<0.1	0.06	6.5	<0.1	0.16	4	0.6	<0.2
992172	Soil	16	0.42	236	0.008	6	1.13	0.012	0.06	<0.1	0.08	3.9	<0.1	0.19	3	0.5	<0.2
992173	Soil	18	0.34	234	0.031	1	1.05	0.006	0.08	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
992174	Soil	27	0.60	363	0.015	4	2.01	0.013	0.14	0.1	0.05	6.0	<0.1	0.12	6	<0.5	<0.2
992175	Soil	20	0.33	133	0.052	2	1.05	0.007	0.08	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992176	Soil	26	0.55	165	0.048	2	1.31	0.014	0.10	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
992177	Soil	33	0.69	252	0.017	2	2.26	0.013	0.12	0.1	0.05	8.0	<0.1	0.07	6	<0.5	<0.2
992178	Soil	21	0.37	309	0.043	2	1.17	0.007	0.09	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
992179	Soil	20	0.28	292	0.036	2	1.09	0.007	0.06	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
992180	Soil	32	0.59	326	0.017	2	2.10	0.010	0.20	<0.1	0.04	6.0	<0.1	0.10	7	<0.5	<0.2
992181	Soil	22	0.40	241	0.038	2	1.32	0.007	0.07	0.1	0.03	3.0	<0.1	0.05	5	<0.5	<0.2
992182	Soil	22	0.43	167	0.041	1	1.26	0.007	0.06	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
992183	Soil	47	0.87	402	0.012	4	3.60	0.014	0.24	0.2	0.08	9.8	0.1	0.15	10	<0.5	<0.2
992184	Soil	28	0.55	161	0.029	2	1.46	0.013	0.08	0.1	0.03	5.4	<0.1	0.07	5	<0.5	<0.2
992185	Soil	21	0.44	124	0.033	2	1.15	0.007	0.08	<0.1	0.03	3.4	<0.1	0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
992186	0.7	24.9	10.1	141	0.1	20.2	9.9	491	2.85	6.8	<0.5	0.7	38	1.0	0.4	0.2	56	0.67	0.026	6	
992187	1.0	46.6	11.5	144	0.3	29.1	14.7	1076	3.19	6.4	<0.5	0.9	39	2.7	0.3	0.2	65	0.64	0.084	7	
992188	0.9	28.8	10.0	147	0.1	17.0	9.4	793	2.52	6.0	<0.5	0.4	39	1.8	0.3	0.1	53	0.64	0.028	4	
992189	0.9	62.4	10.3	305	0.7	47.1	13.1	1454	4.00	7.2	0.6	1.5	68	3.9	0.6	0.2	71	1.28	0.071	17	
992190	0.6	22.9	8.4	210	0.2	14.3	8.9	1511	2.25	2.8	<0.5	0.3	48	1.7	0.3	0.2	50	0.78	0.042	5	
992191	0.7	9.5	6.9	146	0.1	11.5	6.9	466	2.34	4.1	<0.5	0.6	19	0.8	0.3	0.1	55	0.23	0.044	5	
992192	0.8	14.2	7.3	115	<0.1	17.6	9.0	503	2.78	6.2	<0.5	0.6	30	0.3	0.4	0.1	60	0.45	0.047	5	
992193	1.3	17.0	8.9	64	<0.1	16.9	7.4	289	2.97	8.1	0.7	0.4	24	0.4	0.4	0.1	66	0.32	0.027	5	
992194	0.7	18.1	7.5	162	<0.1	15.5	9.3	559	2.98	5.3	<0.5	0.4	26	0.7	0.3	0.1	59	0.52	0.047	5	
992195	1.0	66.7	9.9	134	1.0	43.7	11.7	925	4.18	9.4	0.5	1.2	66	1.8	0.4	0.2	76	1.15	0.091	22	
992196	0.9	40.3	9.2	156	0.7	25.1	7.6	918	2.60	12.9	0.6	0.4	73	1.4	0.4	0.1	44	2.23	0.116	12	
992197	1.0	20.0	14.6	184	0.3	13.4	9.9	1604	3.00	8.9	<0.5	0.4	22	1.4	0.4	0.1	66	0.47	0.033	5	
992198	1.1	24.1	24.6	425	0.4	12.8	13.6	3645	3.64	8.6	<0.5	0.2	28	3.2	0.4	0.2	74	0.64	0.122	5	
992200	1.1	53.1	22.3	463	0.6	35.2	12.8	1697	4.23	10.0	<0.5	0.8	39	4.0	0.5	0.2	79	1.07	0.079	12	
992201	1.2	86.7	25.5	467	1.3	45.0	14.3	1482	4.73	18.1	0.6	1.0	40	5.4	0.7	0.2	98	1.05	0.089	16	
992350	0.9	43.4	13.5	150	0.5	38.4	10.2	459	3.52	17.1	1.3	0.9	58	0.8	0.4	0.2	72	0.65	0.101	11	
992351	0.8	27.0	10.0	130	0.2	24.5	10.8	813	3.07	7.0	<0.5	0.4	27	0.4	0.4	0.2	66	0.32	0.046	8	
992352	0.7	22.2	10.3	98	0.1	24.7	9.9	566	3.26	10.3	0.6	0.6	23	0.3	0.4	0.2	68	0.23	0.041	8	
992353	0.7	15.4	7.3	100	0.1	16.8	7.2	453	2.69	4.3	0.7	0.3	20	0.3	0.3	0.1	60	0.20	0.033	7	
992354	0.7	20.7	6.7	94	0.1	21.4	8.7	543	3.02	6.1	<0.5	0.5	21	0.3	0.3	0.1	61	0.22	0.032	6	
992355	0.6	11.5	5.9	80	<0.1	13.9	6.3	317	2.50	5.8	<0.5	0.6	18	0.2	0.3	0.1	56	0.16	0.022	6	
992356	1.0	28.4	8.5	95	0.2	26.9	13.1	907	3.46	6.7	<0.5	0.4	28	0.2	0.3	0.2	69	0.26	0.054	8	
992357	0.8	18.3	6.7	82	0.1	21.4	8.1	384	2.87	5.6	0.5	0.4	24	0.2	0.3	0.1	58	0.22	0.038	6	
992358	0.6	16.0	6.7	76	<0.1	21.6	8.4	427	2.96	6.4	<0.5	0.5	20	0.2	0.4	0.1	60	0.19	0.026	6	
992359	0.7	15.6	7.4	89	<0.1	19.3	9.4	552	2.90	8.2	<0.5	0.6	23	0.3	0.3	0.1	60	0.23	0.030	6	
992360	0.6	19.2	6.3	110	0.1	24.5	12.2	1187	3.33	7.2	<0.5	0.6	27	0.5	0.4	0.1	62	0.25	0.039	7	
992361	0.8	21.4	6.9	76	<0.1	23.4	9.8	511	3.11	7.2	<0.5	0.4	29	0.3	0.4	0.1	65	0.28	0.030	7	
992362	0.9	39.8	11.3	144	0.3	38.3	14.9	1361	4.15	9.2	0.7	0.8	48	0.7	0.3	0.2	79	0.48	0.073	12	
992363	0.8	12.4	18.5	328	0.2	12.8	9.5	1144	3.83	11.5	<0.5	0.5	24	1.7	0.4	0.2	81	0.27	0.084	5	
992364	0.8	21.5	38.0	381	0.4	17.2	13.7	3168	3.54	10.8	<0.5	0.3	35	4.5	0.4	0.2	69	0.34	0.093	7	

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992186	Soil	22	0.47	141	0.031	2	1.20	0.011	0.05	0.1	0.01	4.6	<0.1	0.06	4	<0.5	<0.2
992187	Soil	27	0.44	223	0.021	3	1.70	0.008	0.07	0.1	0.02	6.0	<0.1	0.06	5	<0.5	<0.2
992188	Soil	17	0.28	177	0.036	3	0.74	0.005	0.07	<0.1	0.02	2.5	<0.1	0.06	4	<0.5	<0.2
992189	Soil	35	0.69	345	0.018	4	2.69	0.017	0.09	0.1	0.03	11.5	0.2	0.09	7	<0.5	<0.2
992190	Soil	18	0.30	212	0.035	4	0.96	0.006	0.09	0.1	0.01	3.0	<0.1	0.09	4	<0.5	<0.2
992191	Soil	17	0.31	118	0.041	2	0.91	0.006	0.06	0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
992192	Soil	21	0.45	106	0.040	2	1.13	0.007	0.06	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992193	Soil	22	0.34	89	0.031	3	1.17	0.006	0.05	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
992194	Soil	21	0.32	134	0.030	2	1.10	0.005	0.08	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
992195	Soil	37	0.68	354	0.011	2	2.84	0.016	0.11	<0.1	0.05	15.4	0.1	0.11	7	<0.5	<0.2
992196	Soil	21	0.50	328	0.010	5	1.73	0.012	0.07	0.1	0.08	6.6	0.1	0.18	4	<0.5	<0.2
992197	Soil	17	0.32	220	0.033	2	1.00	0.006	0.06	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
992198	Soil	21	0.34	506	0.029	3	1.13	0.006	0.09	0.2	0.03	2.6	<0.1	0.07	6	<0.5	<0.2
992200	Soil	34	0.56	456	0.016	3	2.32	0.011	0.13	0.1	0.05	9.0	0.1	0.08	8	<0.5	<0.2
992201	Soil	39	0.63	490	0.017	2	2.67	0.020	0.15	<0.1	0.06	13.0	0.2	0.08	8	<0.5	<0.2
992350	Soil	37	0.75	347	0.005	2	3.15	0.014	0.16	<0.1	0.11	10.3	0.2	0.14	8	<0.5	<0.2
992351	Soil	30	0.60	134	0.022	2	1.72	0.010	0.10	<0.1	0.03	4.5	<0.1	0.06	6	<0.5	<0.2
992352	Soil	29	0.68	103	0.037	2	1.73	0.011	0.10	0.1	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
992353	Soil	23	0.44	133	0.021	1	1.39	0.008	0.07	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
992354	Soil	26	0.52	114	0.020	1	1.64	0.007	0.07	0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
992355	Soil	20	0.38	95	0.031	1	1.16	0.007	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
992356	Soil	31	0.62	146	0.013	1	2.11	0.009	0.09	<0.1	0.04	4.5	<0.1	<0.05	7	<0.5	<0.2
992357	Soil	24	0.57	100	0.019	1	1.66	0.008	0.06	<0.1	0.03	3.7	<0.1	0.05	6	<0.5	<0.2
992358	Soil	25	0.55	83	0.034	1	1.36	0.010	0.07	<0.1	0.02	3.6	<0.1	0.05	5	<0.5	<0.2
992359	Soil	23	0.50	101	0.033	1	1.29	0.010	0.08	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
992360	Soil	27	0.53	122	0.033	2	1.42	0.007	0.09	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
992361	Soil	27	0.56	111	0.029	1	1.47	0.009	0.08	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
992362	Soil	38	0.77	270	0.008	1	2.72	0.012	0.15	<0.1	0.03	7.2	<0.1	0.08	8	<0.5	<0.2
992363	Soil	22	0.40	177	0.037	2	1.27	0.007	0.09	0.2	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
992364	Soil	24	0.42	431	0.030	2	1.61	0.008	0.09	<0.1	0.03	4.2	0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
992365	Soil	0.9	14.2	16.8	307	0.4	11.5	10.3	1722	3.57	11.3	<0.5	0.4	25	2.5	0.4	0.1	73	0.34	0.078	5
992366	Soil	0.7	13.7	17.3	321	0.3	16.8	11.9	994	3.61	11.5	<0.5	0.6	25	1.5	0.4	0.2	72	0.33	0.127	6
992367	Soil	0.7	10.3	12.0	220	0.3	8.9	7.8	1268	2.54	2.9	<0.5	0.2	27	2.3	0.2	0.2	54	0.36	0.074	5
992368	Soil	0.6	24.7	12.0	105	0.1	17.3	8.3	674	3.18	12.5	1.0	0.9	29	0.2	0.5	<0.1	65	0.35	0.042	6
992369	Soil	0.8	26.6	14.3	115	0.3	17.1	8.4	664	3.28	13.1	<0.5	0.7	34	0.6	0.5	<0.1	67	0.40	0.034	6
992370	Soil	1.0	34.7	18.1	190	0.4	20.6	11.0	1158	3.76	15.9	<0.5	0.7	30	1.8	0.5	<0.1	75	0.40	0.049	7
992371	Soil	0.9	30.9	17.7	174	0.3	21.8	12.9	1162	3.86	20.9	1.5	0.9	26	1.0	0.7	0.2	72	0.44	0.068	9
992372	Soil	0.9	33.0	8.2	139	0.3	21.5	9.1	1013	2.46	23.8	<0.5	0.3	61	1.1	0.4	0.2	37	1.86	0.078	5
992373	Soil	1.0	39.8	8.3	217	0.3	25.7	10.9	646	2.87	9.9	<0.5	0.3	60	1.6	0.4	0.2	42	1.80	0.055	7
992374	Soil	0.7	33.7	8.5	193	0.2	26.0	8.9	588	3.02	7.8	1.2	0.6	37	1.3	0.4	0.2	48	0.83	0.035	7
992375	Soil	0.6	47.8	9.9	276	0.6	45.8	11.3	864	4.22	10.8	0.7	1.7	46	3.1	0.7	0.2	64	0.85	0.099	18
992376	Soil	0.7	15.6	6.6	80	<0.1	16.0	6.2	271	2.57	6.5	2.0	0.3	32	0.8	0.2	0.1	43	0.61	0.032	4
992377	Soil	0.8	26.7	10.3	156	0.3	25.5	11.6	827	3.54	10.3	<0.5	0.8	37	1.4	0.4	0.1	57	0.77	0.042	6
992378	Soil	0.9	27.4	7.6	146	0.2	24.5	11.6	734	3.01	6.9	0.6	0.4	29	1.6	0.3	0.2	48	0.40	0.046	7
992379	Soil	0.7	34.7	9.2	182	0.3	28.9	10.2	652	3.39	10.6	<0.5	0.9	36	1.0	0.6	0.1	51	0.89	0.045	8
992380	Soil	0.8	34.8	8.4	295	0.5	22.4	12.1	1410	3.08	4.8	0.6	0.4	29	2.7	0.3	0.2	49	0.42	0.049	6
992381	Soil	0.8	23.1	8.0	97	0.2	24.9	9.7	739	3.05	7.8	<0.5	0.8	44	0.6	0.4	0.2	47	0.66	0.040	7
992382	Soil	0.6	18.5	8.9	84	<0.1	24.0	10.1	657	3.10	8.4	<0.5	0.9	28	0.2	0.3	0.1	52	0.40	0.031	6
992383	Soil	0.5	7.4	5.1	73	<0.1	9.8	4.1	193	1.88	3.5	1.4	0.3	16	0.2	0.2	0.1	37	0.17	0.040	4
992384	Soil	0.3	13.1	6.3	102	0.2	14.6	7.9	359	2.45	5.0	<0.5	0.5	28	0.6	0.3	0.1	45	0.43	0.039	4
992385	Soil	0.5	13.3	7.1	104	0.1	15.6	7.4	339	2.53	6.2	1.2	0.3	33	0.4	0.3	0.1	46	0.47	0.030	4
992386	Soil	0.8	18.6	9.9	121	0.1	17.8	8.8	552	2.97	8.7	<0.5	0.3	29	0.7	0.4	0.1	50	0.50	0.039	5
992387	Soil	0.8	20.0	10.2	128	<0.1	18.9	10.5	571	3.06	10.9	1.8	0.5	35	0.8	0.6	<0.1	50	0.51	0.089	5
992388	Soil	0.6	22.9	12.4	185	0.1	19.6	10.4	714	3.26	10.4	<0.5	0.6	26	1.1	0.4	0.2	53	0.36	0.040	6
992389	Soil	0.9	25.9	9.0	125	0.3	21.0	8.1	480	2.89	8.4	<0.5	0.3	31	0.5	0.3	0.1	49	0.35	0.050	7
992390	Soil	0.9	27.0	11.8	154	0.3	20.5	9.2	814	3.25	10.4	<0.5	0.3	24	0.7	0.5	0.1	53	0.27	0.037	6
992391	Soil	0.9	21.6	12.9	202	0.5	15.4	9.2	835	2.97	6.4	<0.5	0.2	26	1.9	0.3	0.2	48	0.35	0.094	5
992392	Soil	0.7	29.6	12.7	142	0.2	24.3	10.5	674	3.22	11.2	2.5	0.7	37	0.8	0.6	0.1	50	0.91	0.063	7
992394	Soil	0.7	17.7	12.8	148	<0.1	15.7	8.6	548	2.97	11.0	<0.5	0.3	33	0.8	0.6	<0.1	52	0.62	0.081	4
992395	Soil	0.9	33.6	19.8	199	0.3	19.7	12.8	1196	3.94	27.6	1.7	0.8	31	0.9	0.8	0.1	68	0.50	0.056	10



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992365	Soil	19	0.37	249	0.035	2	1.10	0.007	0.08	0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
992366	Soil	25	0.50	247	0.041	2	1.46	0.007	0.12	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
992367	Soil	19	0.22	309	0.035	2	0.83	0.006	0.10	0.1	0.02	2.3	<0.1	0.07	4	<0.5	<0.2
992368	Soil	23	0.49	209	0.039	1	1.27	0.011	0.05	0.1	0.03	6.7	<0.1	<0.05	4	<0.5	<0.2
992369	Soil	22	0.50	228	0.035	1	1.22	0.010	0.05	<0.1	0.04	6.0	<0.1	<0.05	4	<0.5	<0.2
992370	Soil	24	0.52	346	0.038	1	1.43	0.012	0.06	0.1	0.04	7.1	<0.1	<0.05	5	<0.5	<0.2
992371	Soil	21	0.58	299	0.028	2	1.35	0.011	0.06	0.1	0.05	6.8	0.1	<0.05	5	<0.5	<0.2
992372	Soil	18	0.47	282	0.009	5	1.21	0.012	0.06	0.2	0.08	3.6	<0.1	0.11	4	<0.5	<0.2
992373	Soil	21	0.46	273	0.010	3	1.40	0.010	0.06	0.1	0.03	4.3	<0.1	0.10	4	<0.5	<0.2
992374	Soil	22	0.45	277	0.018	2	1.46	0.009	0.06	0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
992375	Soil	32	0.63	469	0.009	3	3.05	0.016	0.16	<0.1	0.08	13.2	0.2	0.08	8	<0.5	<0.2
992376	Soil	18	0.38	158	0.013	2	1.17	0.007	0.05	0.2	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
992377	Soil	24	0.50	222	0.012	2	1.56	0.009	0.07	0.1	0.04	6.1	<0.1	<0.05	5	<0.5	<0.2
992378	Soil	20	0.44	182	0.017	1	1.36	0.008	0.07	0.1	0.05	3.9	<0.1	<0.05	5	<0.5	<0.2
992379	Soil	25	0.49	325	0.009	1	1.86	0.008	0.08	<0.1	0.05	7.7	<0.1	<0.05	5	<0.5	<0.2
992380	Soil	19	0.37	206	0.018	2	1.34	0.006	0.07	0.2	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
992381	Soil	23	0.53	187	0.011	2	1.56	0.009	0.08	<0.1	0.03	6.4	0.1	<0.05	5	<0.5	<0.2
992382	Soil	23	0.54	149	0.023	1	1.40	0.009	0.08	<0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
992383	Soil	13	0.29	113	0.025	<1	0.80	0.006	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
992384	Soil	17	0.36	150	0.023	1	1.04	0.006	0.06	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
992385	Soil	18	0.39	172	0.019	1	1.14	0.007	0.05	0.2	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
992386	Soil	19	0.42	114	0.020	1	1.24	0.008	0.06	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
992387	Soil	20	0.50	111	0.030	2	1.21	0.008	0.07	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
992388	Soil	20	0.51	189	0.029	<1	1.28	0.007	0.10	0.1	0.02	4.7	0.1	<0.05	4	<0.5	<0.2
992389	Soil	23	0.58	186	0.010	1	1.60	0.009	0.09	<0.1	0.05	4.6	<0.1	<0.05	5	<0.5	<0.2
992390	Soil	22	0.50	171	0.014	<1	1.45	0.007	0.09	<0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
992391	Soil	19	0.37	306	0.014	2	1.18	0.006	0.11	0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
992392	Soil	22	0.53	227	0.015	2	1.51	0.012	0.07	0.1	0.08	6.5	<0.1	0.06	4	<0.5	<0.2
992394	Soil	18	0.43	142	0.026	3	1.01	0.006	0.17	0.2	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
992395	Soil	21	0.61	256	0.021	2	1.63	0.012	0.09	<0.1	0.08	8.9	<0.1	<0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992396	Soil	0.9	37.6	18.2	191	0.3	22.8	13.1	1373	3.83	22.5	<0.5	1.0	42	1.1	0.6	0.1	65	0.65	0.074	14
992397	Soil	0.6	25.3	13.5	142	0.1	22.0	10.2	609	3.17	9.8	<0.5	0.4	32	1.2	0.6	<0.1	53	0.39	0.051	6
992398	Soil	0.8	27.4	14.3	122	0.2	25.3	11.1	698	3.49	12.0	<0.5	0.6	32	0.6	0.6	0.1	52	0.35	0.039	6
992399	Soil	1.0	29.9	11.8	129	0.2	25.2	11.7	776	3.20	9.6	<0.5	0.4	32	1.6	0.4	0.1	51	0.37	0.046	6
992400	Soil	0.6	21.1	9.5	136	0.3	18.1	10.1	574	2.72	6.5	<0.5	0.3	28	1.5	0.4	0.2	45	0.35	0.038	5
992401	Soil	0.7	50.0	17.3	178	0.4	30.8	11.7	995	3.59	10.4	<0.5	0.6	43	2.0	0.3	0.2	57	0.42	0.056	11
992402	Soil	0.6	15.6	12.6	160	<0.1	16.6	8.5	588	2.87	7.6	1.7	0.3	22	0.8	0.4	0.1	49	0.27	0.079	5
992450	Soil	1.0	24.9	8.9	143	0.2	21.5	9.2	780	2.63	12.9	<0.5	0.5	49	0.7	0.5	0.1	42	1.37	0.060	6
992451	Soil	1.0	29.8	23.6	240	0.3	10.9	10.7	1849	2.77	9.7	<0.5	0.1	29	2.2	0.4	0.2	54	0.69	0.060	4
992452	Soil	1.1	15.5	16.2	285	0.2	14.0	9.5	679	3.48	12.5	<0.5	0.3	29	1.5	0.5	0.1	64	0.81	0.042	4
992453	Soil	1.0	39.5	17.1	281	0.5	29.0	11.8	1222	3.67	14.8	<0.5	0.8	34	2.1	0.7	0.2	57	0.73	0.062	8
992454	Soil	1.0	22.4	15.2	200	0.2	18.4	11.4	1097	3.71	19.8	<0.5	0.5	33	1.1	0.6	<0.1	78	0.73	0.072	6
992455	Soil	1.3	37.8	26.2	164	0.3	20.9	11.1	1863	3.63	18.2	2.7	1.0	27	1.1	0.8	0.1	67	0.44	0.067	8
992456	Soil	1.2	12.3	17.3	242	0.2	10.5	8.1	1138	3.72	9.8	2.5	0.3	32	1.5	0.5	0.2	63	0.76	0.096	4
992457	Soil	0.8	14.1	27.1	351	0.3	11.5	11.6	2193	3.87	12.8	3.8	0.5	22	2.3	0.6	0.2	75	0.44	0.148	4
992458	Soil	1.4	7.1	14.3	101	<0.1	7.1	3.9	228	2.47	7.3	4.6	0.3	14	0.6	0.3	0.2	62	0.26	0.021	3
992459	Soil	0.9	15.0	8.0	53	0.1	11.4	4.6	208	2.29	7.8	2.6	0.6	16	0.5	0.4	0.1	52	0.21	0.014	4
992460	Soil	1.0	20.8	20.7	249	0.2	14.1	12.8	1825	3.56	10.2	2.1	0.4	27	2.2	0.5	0.2	73	0.45	0.058	4
992461	Soil	0.5	20.0	7.9	144	0.1	21.2	8.2	517	2.79	8.0	3.5	0.5	31	0.6	0.3	0.1	48	0.44	0.060	5
992462	Soil	0.4	31.0	12.3	238	0.3	16.7	7.9	535	2.54	6.3	4.4	0.6	37	1.5	0.3	0.2	50	0.65	0.025	5
992463	Soil	0.8	34.2	8.3	293	0.3	21.4	10.5	1056	2.79	6.8	4.0	0.6	41	1.8	0.5	0.3	49	0.92	0.055	5
992464	Soil	0.8	35.9	7.9	249	0.3	27.1	9.6	799	3.09	8.3	1.0	0.8	41	1.3	0.4	0.1	52	0.60	0.135	11
992465	Soil	0.4	46.8	5.8	189	0.4	21.5	6.7	633	2.08	4.1	2.8	0.3	62	1.3	0.3	0.2	39	1.34	0.081	9
992466	Soil	0.3	100.2	4.8	120	0.9	35.2	5.7	287	2.18	4.1	4.0	0.7	87	1.4	0.5	0.2	30	2.55	0.148	25
992467	Soil	0.4	46.4	1.7	37	0.3	14.8	2.4	138	0.70	0.8	5.3	0.2	119	0.8	0.5	0.1	11	3.76	0.141	9
992468	Soil	1.0	72.3	8.4	158	0.7	47.1	14.0	1692	3.36	8.3	6.4	0.9	80	3.9	0.4	0.2	53	1.19	0.080	11
992469	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.
992470	Soil	0.6	17.6	6.8	200	0.2	12.0	6.6	371	2.20	3.9	1.0	0.2	39	1.1	0.3	0.1	47	0.48	0.048	4
992471	Soil	0.6	26.1	6.9	97	0.2	24.0	9.8	544	2.88	7.9	2.8	0.8	41	0.8	0.4	0.1	50	0.62	0.031	7
992472	Soil	0.9	65.1	10.0	189	0.7	55.6	13.9	1055	4.36	9.3	1.7	1.6	70	1.3	0.5	0.2	71	0.93	0.074	15

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992396	Soil	21	0.60	354	0.024	2	1.49	0.013	0.08	0.1	0.05	9.0	<0.1	<0.05	5	<0.5	<0.2
992397	Soil	21	0.53	151	0.032	1	1.30	0.007	0.07	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
992398	Soil	25	0.53	171	0.013	<1	1.68	0.007	0.09	0.1	0.02	6.1	<0.1	<0.05	5	<0.5	<0.2
992399	Soil	23	0.51	161	0.020	2	1.38	0.008	0.10	0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
992400	Soil	18	0.40	117	0.030	<1	0.97	0.006	0.10	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
992401	Soil	25	0.57	224	0.016	<1	1.69	0.010	0.09	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
992402	Soil	18	0.45	126	0.029	1	1.18	0.008	0.06	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
992450	Soil	20	0.49	215	0.013	4	1.24	0.013	0.07	0.1	0.04	5.2	<0.1	0.11	4	0.5	<0.2
992451	Soil	15	0.24	316	0.029	3	0.80	0.006	0.07	0.2	0.05	2.7	<0.1	0.10	4	<0.5	<0.2
992452	Soil	18	0.42	212	0.029	4	1.09	0.006	0.11	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
992453	Soil	26	0.53	323	0.014	2	1.74	0.010	0.12	0.2	0.05	7.8	0.1	<0.05	5	<0.5	<0.2
992454	Soil	22	0.60	322	0.023	3	1.25	0.012	0.08	0.1	0.03	6.3	<0.1	<0.05	5	<0.5	<0.2
992455	Soil	19	0.52	279	0.036	<1	1.17	0.014	0.04	0.1	0.08	8.6	0.2	<0.05	4	<0.5	<0.2
992456	Soil	17	0.30	310	0.027	3	0.86	0.005	0.09	0.1	0.04	3.3	<0.1	<0.05	4	<0.5	<0.2
992457	Soil	17	0.39	482	0.032	3	1.10	0.006	0.09	0.2	0.03	4.2	0.1	<0.05	5	<0.5	<0.2
992458	Soil	13	0.19	177	0.029	<1	0.78	0.006	0.05	0.2	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
992459	Soil	14	0.23	233	0.025	<1	0.88	0.018	0.05	0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
992460	Soil	19	0.28	352	0.044	3	1.05	0.007	0.07	0.2	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
992461	Soil	19	0.47	179	0.021	2	1.30	0.008	0.07	<0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
992462	Soil	17	0.38	462	0.031	<1	1.04	0.008	0.05	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
992463	Soil	21	0.34	347	0.022	4	1.44	0.009	0.08	0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
992464	Soil	26	0.45	292	0.014	3	2.26	0.012	0.12	<0.1	0.05	6.9	<0.1	<0.05	6	<0.5	<0.2
992465	Soil	16	0.34	255	0.016	2	1.28	0.010	0.06	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
992466	Soil	20	0.45	272	0.009	5	1.59	0.013	0.05	0.2	0.11	7.3	0.1	0.08	4	1.2	<0.2
992467	Soil	7	0.30	213	0.005	11	0.66	0.012	0.02	<0.1	0.08	2.0	<0.1	0.17	1	1.0	<0.2
992468	Soil	28	0.59	366	0.008	2	2.34	0.013	0.10	<0.1	0.05	8.9	<0.1	<0.05	6	<0.5	<0.2
992469	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.
992470	Soil	15	0.25	239	0.023	3	0.98	0.007	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
992471	Soil	21	0.50	166	0.027	1	1.45	0.012	0.06	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
992472	Soil	40	0.84	460	0.005	1	3.59	0.015	0.15	<0.1	0.03	12.1	0.1	<0.05	9	<0.5	<0.2

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



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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992473	Soil	0.8	58.5	8.6	77	0.5	47.4	12.6	850	3.56	8.0	3.3	1.1	69	0.9	0.5	0.2	57	0.77	0.058	13
992474	Soil	0.6	18.7	6.8	68	<0.1	21.9	7.9	542	2.73	7.6	1.7	0.6	31	0.2	0.4	0.1	50	0.34	0.046	8
992475	Soil	0.3	9.5	6.1	106	0.1	12.1	7.1	754	2.21	5.2	1.7	0.4	23	0.3	0.3	0.1	45	0.26	0.037	5
992476	Soil	0.7	47.4	8.3	107	0.5	44.8	10.3	663	3.49	10.8	1.4	1.1	56	1.4	0.5	0.2	62	0.74	0.068	11
992477	Soil	0.9	20.6	8.6	86	<0.1	22.1	8.6	637	2.90	8.9	1.4	0.6	28	0.2	0.4	0.2	52	0.29	0.045	7
992478	Soil	0.7	56.0	9.0	183	0.4	46.6	12.2	1192	4.05	10.8	4.4	1.2	56	0.9	0.5	0.2	67	0.60	0.117	14
992479	Soil	0.5	9.7	5.3	96	<0.1	15.9	6.6	293	2.60	5.3	1.5	0.6	22	0.1	0.4	0.1	52	0.20	0.034	4
992480	Soil	0.7	32.9	7.9	130	0.3	35.7	11.5	1327	3.19	8.3	2.2	0.8	59	0.5	0.4	0.2	55	0.78	0.073	12
992482	Soil	0.5	22.7	6.8	156	0.2	17.6	9.2	1458	2.66	5.6	1.2	0.3	33	0.7	0.3	0.2	47	0.29	0.108	6
992483	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.
992484	Soil	0.7	14.5	7.6	67	<0.1	14.7	8.7	365	2.68	9.0	2.2	0.6	35	0.2	0.5	0.1	59	0.31	0.031	5
992485	Soil	0.6	41.1	9.9	119	0.4	36.2	10.6	645	3.75	9.9	0.8	0.9	55	0.2	0.5	0.3	64	0.62	0.159	11
992486	Soil	0.7	10.6	8.2	133	<0.1	15.7	9.8	1164	2.64	8.2	0.7	0.5	26	0.5	0.4	0.2	55	0.23	0.037	5
992487	Soil	0.7	48.7	6.7	154	0.4	43.2	11.8	920	3.63	8.9	1.9	0.9	69	0.5	0.7	0.2	60	0.80	0.111	11
992488	Soil	0.5	9.5	5.9	126	<0.1	12.7	7.2	888	2.38	4.8	1.3	0.4	31	0.4	0.3	0.1	50	0.30	0.037	4
992489	Soil	0.6	15.7	7.3	118	<0.1	18.2	9.9	863	2.79	7.1	0.9	0.3	28	0.4	0.4	0.2	52	0.23	0.049	5
992490	Soil	0.7	40.0	10.0	119	0.3	31.7	11.2	1140	3.09	8.4	0.6	0.6	41	0.6	0.4	0.2	53	0.39	0.061	11
992491	Soil	0.8	22.6	9.5	153	0.2	22.8	9.7	896	2.59	5.9	2.0	0.5	37	0.7	0.4	0.1	49	0.47	0.045	10
992492	Soil	0.6	10.4	6.9	151	0.1	12.5	8.0	1024	2.18	3.1	0.6	0.5	31	0.6	0.2	0.3	47	0.31	0.052	5
992493	Soil	0.8	43.2	7.7	112	0.9	30.6	8.1	440	2.62	5.2	1.4	0.2	46	0.5	0.3	0.2	48	0.40	0.082	12
992494	Soil	0.6	9.7	8.0	148	0.2	12.2	8.2	1055	2.37	5.9	1.7	0.4	28	0.9	0.3	0.1	51	0.22	0.041	5
992495	Soil	0.6	35.9	8.2	159	0.5	40.9	12.1	1376	3.54	6.9	1.5	0.6	63	1.3	0.4	0.2	54	0.68	0.091	9
992496	Soil	0.4	11.0	6.0	200	0.1	12.1	7.9	1127	2.29	3.4	1.2	0.3	48	0.6	0.2	0.1	44	0.41	0.057	5
992497	Soil	0.6	21.1	8.0	140	0.3	26.3	10.1	793	3.11	7.0	<0.5	0.4	42	0.7	0.3	0.1	51	0.52	0.074	7
992498	Soil	0.4	15.9	7.9	227	<0.1	16.0	9.1	867	2.83	9.1	3.1	0.5	34	0.9	0.4	0.1	49	0.29	0.065	5
992499	Soil	0.6	12.0	7.5	103	<0.1	11.4	6.2	246	2.61	5.2	1.3	0.5	26	0.5	0.3	0.1	53	0.32	0.020	5





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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000505.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992473	Soil	31	0.71	273	0.008	3	2.58	0.015	0.11	<0.1	0.04	9.7	<0.1	<0.05	7	<0.5	<0.2
992474	Soil	20	0.53	104	0.030	<1	1.34	0.010	0.07	0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
992475	Soil	16	0.31	130	0.029	<1	1.08	0.007	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
992476	Soil	31	0.63	312	0.012	2	2.39	0.015	0.13	<0.1	0.03	11.6	<0.1	<0.05	7	<0.5	<0.2
992477	Soil	23	0.52	162	0.026	<1	1.47	0.010	0.06	0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
992478	Soil	36	0.78	372	0.011	<1	3.11	0.014	0.18	0.2	0.04	11.8	0.1	<0.05	8	<0.5	<0.2
992479	Soil	17	0.38	115	0.045	1	1.07	0.006	0.06	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
992480	Soil	29	0.64	242	0.013	2	2.12	0.011	0.13	0.1	0.06	8.3	<0.1	<0.05	6	<0.5	<0.2
992482	Soil	22	0.40	244	0.026	2	1.40	0.008	0.08	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
992483	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.
992484	Soil	21	0.37	116	0.031	<1	1.16	0.009	0.04	<0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
992485	Soil	35	0.68	294	0.009	3	3.16	0.014	0.21	0.1	0.09	10.2	0.2	<0.05	9	0.8	<0.2
992486	Soil	19	0.35	170	0.044	<1	1.04	0.008	0.05	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
992487	Soil	36	0.80	339	0.009	1	3.36	0.015	0.21	0.2	0.08	13.4	0.1	<0.05	9	<0.5	<0.2
992488	Soil	17	0.31	123	0.040	2	0.92	0.007	0.04	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
992489	Soil	20	0.40	159	0.037	2	1.17	0.008	0.07	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992490	Soil	26	0.59	237	0.020	2	1.88	0.011	0.10	0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
992491	Soil	22	0.42	189	0.026	1	1.34	0.010	0.08	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
992492	Soil	17	0.28	188	0.049	2	0.95	0.007	0.07	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
992493	Soil	26	0.58	260	0.008	2	2.30	0.011	0.09	0.1	0.05	4.9	<0.1	<0.05	6	<0.5	<0.2
992494	Soil	16	0.29	212	0.032	1	1.02	0.006	0.06	0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
992495	Soil	30	0.61	258	0.012	2	2.46	0.015	0.16	<0.1	0.04	7.8	<0.1	<0.05	7	<0.5	<0.2
992496	Soil	15	0.29	234	0.032	3	0.99	0.006	0.07	<0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
992497	Soil	23	0.47	188	0.015	2	2.16	0.008	0.09	<0.1	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
992498	Soil	17	0.36	236	0.039	2	1.14	0.007	0.07	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
992499	Soil	16	0.29	100	0.040	1	0.95	0.006	0.06	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2



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Project: ZNT

Report Date: November 07, 2012

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# QUALITY CONTROL REPORT

SMI12000505.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992037	Soil	0.5	9.9	8.6	142	<0.1	14.5	8.7	823	2.45	6.1	<0.5	0.5	25	0.4	0.3	0.1	57	0.29	0.051	5
REP 992037	QC	0.8	9.7	8.2	138	<0.1	14.3	8.8	820	2.42	5.7	<0.5	0.5	26	0.3	0.3	0.1	57	0.29	0.049	5
992041	Soil	0.7	19.6	7.9	222	0.2	19.0	10.9	1220	2.52	5.2	<0.5	0.4	55	1.4	0.3	0.1	55	0.66	0.069	4
REP 992041	QC	0.7	19.8	7.8	218	0.2	19.6	10.5	1240	2.51	5.5	<0.5	0.4	53	1.2	0.3	0.2	55	0.68	0.067	4
992073	Soil	0.7	31.1	8.6	159	0.2	27.2	10.1	1379	3.16	6.7	<0.5	0.2	35	0.9	0.3	0.1	54	0.32	0.075	9
REP 992073	QC	0.7	30.8	8.8	160	0.2	27.8	10.5	1405	3.23	6.7	<0.5	0.2	35	1.0	0.2	0.1	54	0.33	0.076	10
992077	Soil	0.6	15.2	6.9	94	0.1	18.9	7.2	461	2.74	6.9	<0.5	0.3	25	0.1	0.4	<0.1	50	0.24	0.034	6
REP 992077	QC	0.7	14.9	7.0	91	<0.1	19.2	7.3	465	2.74	6.5	<0.5	0.4	26	0.3	0.3	<0.1	50	0.24	0.034	6
992109	Soil	0.8	23.2	12.5	219	0.3	20.1	11.6	1439	3.35	13.5	1.5	0.4	46	1.5	0.4	0.1	65	0.57	0.094	7
REP 992109	QC	0.8	22.9	12.6	223	0.3	19.5	11.6	1347	3.31	13.2	1.2	0.4	47	1.6	0.4	0.1	65	0.59	0.098	7
992113	Soil	0.9	42.8	14.5	268	0.3	30.2	14.8	1500	3.97	20.3	1.0	1.2	38	1.9	0.5	0.1	76	0.71	0.075	11
REP 992113	QC	0.9	42.8	14.5	265	0.4	30.0	13.7	1431	3.87	20.2	1.1	1.2	39	2.0	0.5	<0.1	76	0.77	0.077	11
992145	Soil	0.8	20.5	14.8	272	0.3	13.2	11.8	1490	3.51	18.1	<0.5	0.3	30	2.4	0.5	0.1	68	0.59	0.079	5
REP 992145	QC	1.0	21.2	15.5	290	0.3	13.9	12.3	1508	3.57	18.4	<0.5	0.3	31	2.5	0.4	0.1	69	0.60	0.082	5
992149	Soil	1.0	27.5	15.2	309	0.4	17.4	12.5	1665	3.41	14.4	<0.5	0.4	33	3.1	0.4	0.1	60	0.49	0.093	6
REP 992149	QC	0.9	27.0	15.8	303	0.3	17.5	12.4	1702	3.34	14.4	1.5	0.4	33	2.9	0.5	<0.1	63	0.50	0.096	6
992181	Soil	0.5	12.7	7.1	170	<0.1	18.7	11.9	1845	2.65	4.2	<0.5	0.5	34	0.7	0.3	0.1	63	0.35	0.052	5
REP 992181	QC	0.5	12.5	7.2	173	0.1	18.8	11.8	1926	2.67	4.4	<0.5	0.5	34	0.8	0.3	0.1	61	0.35	0.049	5
992185	Soil	0.6	15.8	7.3	105	<0.1	18.2	9.2	480	2.62	6.8	<0.5	0.5	30	0.2	0.3	0.1	57	0.39	0.042	5
REP 992185	QC	0.6	15.5	7.3	102	<0.1	18.4	9.3	487	2.63	7.3	<0.5	0.5	30	0.3	0.4	0.1	59	0.38	0.041	5
992366	Soil	0.7	13.7	17.3	321	0.3	16.8	11.9	994	3.61	11.5	<0.5	0.6	25	1.5	0.4	0.2	72	0.33	0.127	6
REP 992366	QC	0.7	13.1	16.7	317	0.3	16.5	11.7	969	3.58	10.9	<0.5	0.6	25	1.5	0.4	0.2	71	0.33	0.122	6
992370	Soil	1.0	34.7	18.1	190	0.4	20.6	11.0	1158	3.76	15.9	<0.5	0.7	30	1.8	0.5	<0.1	75	0.40	0.049	7
REP 992370	QC	0.8	32.2	16.2	179	0.4	19.0	10.3	1036	3.42	15.1	2.2	0.6	27	1.6	0.5	<0.1	69	0.37	0.043	7
992402	Soil	0.6	15.6	12.6	160	<0.1	16.6	8.5	588	2.87	7.6	1.7	0.3	22	0.8	0.4	0.1	49	0.27	0.079	5
REP 992402	QC	0.5	15.2	12.5	164	<0.1	17.0	8.5	605	2.96	7.6	1.0	0.4	22	1.0	0.4	<0.1	49	0.27	0.079	5
992454	Soil	1.0	22.4	15.2	200	0.2	18.4	11.4	1097	3.71	19.8	<0.5	0.5	33	1.1	0.6	<0.1	78	0.73	0.072	6
REP 992454	QC	0.9	22.1	15.0	197	0.2	17.8	11.4	1066	3.60	19.7	<0.5	0.6	32	1.4	0.7	<0.1	72	0.71	0.070	5



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 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 Canada

Project: ZNT  
 Report Date: November 07, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000505.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992037	Soil	20	0.34	178	0.032	<1	1.09	0.007	0.05	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
REP 992037	QC	20	0.33	183	0.031	<1	1.03	0.007	0.05	<0.1	0.02	2.4	<0.1	0.06	4	<0.5	<0.2
992041	Soil	19	0.36	237	0.035	2	0.97	0.006	0.09	<0.1	0.01	2.3	<0.1	0.11	4	<0.5	<0.2
REP 992041	QC	20	0.35	245	0.035	2	0.96	0.006	0.09	0.1	<0.01	2.3	<0.1	0.06	4	<0.5	<0.2
992073	Soil	24	0.51	194	0.007	<1	2.00	0.008	0.11	<0.1	0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
REP 992073	QC	23	0.50	200	0.007	<1	2.01	0.008	0.11	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
992077	Soil	21	0.49	111	0.025	<1	1.34	0.008	0.07	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
REP 992077	QC	20	0.49	112	0.025	1	1.37	0.008	0.07	<0.1	0.03	3.5	<0.1	<0.05	5	0.5	<0.2
992109	Soil	20	0.48	285	0.027	2	1.35	0.012	0.14	<0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
REP 992109	QC	20	0.49	279	0.026	1	1.28	0.010	0.13	<0.1	0.03	4.9	<0.1	0.06	5	<0.5	<0.2
992113	Soil	26	0.57	362	0.024	2	1.89	0.014	0.14	<0.1	0.02	10.6	<0.1	<0.05	6	0.6	<0.2
REP 992113	QC	25	0.59	373	0.023	<1	1.86	0.015	0.14	<0.1	0.03	10.0	<0.1	<0.05	5	<0.5	<0.2
992145	Soil	18	0.43	457	0.029	2	1.17	0.008	0.11	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
REP 992145	QC	18	0.44	470	0.028	3	1.18	0.009	0.11	<0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
992149	Soil	18	0.41	403	0.031	3	1.19	0.007	0.16	0.1	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
REP 992149	QC	18	0.43	406	0.031	3	1.19	0.008	0.16	<0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
992181	Soil	22	0.40	241	0.038	2	1.32	0.007	0.07	0.1	0.03	3.0	<0.1	0.05	5	<0.5	<0.2
REP 992181	QC	22	0.39	244	0.036	2	1.28	0.007	0.06	<0.1	0.03	2.9	<0.1	0.05	5	<0.5	<0.2
992185	Soil	21	0.44	124	0.033	2	1.15	0.007	0.08	<0.1	0.03	3.4	<0.1	0.05	4	<0.5	<0.2
REP 992185	QC	22	0.44	122	0.035	2	1.17	0.007	0.08	<0.1	0.02	3.4	<0.1	0.05	4	<0.5	<0.2
992366	Soil	25	0.50	247	0.041	2	1.46	0.007	0.12	0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
REP 992366	QC	24	0.50	242	0.039	1	1.45	0.007	0.13	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
992370	Soil	24	0.52	346	0.038	1	1.43	0.012	0.06	0.1	0.04	7.1	<0.1	<0.05	5	<0.5	<0.2
REP 992370	QC	22	0.47	314	0.034	1	1.26	0.011	0.05	<0.1	0.04	6.3	<0.1	<0.05	4	<0.5	<0.2
992402	Soil	18	0.45	126	0.029	1	1.18	0.008	0.06	0.2	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 992402	QC	19	0.45	126	0.031	<1	1.18	0.007	0.06	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
992454	Soil	22	0.60	322	0.023	3	1.25	0.012	0.08	0.1	0.03	6.3	<0.1	<0.05	5	<0.5	<0.2
REP 992454	QC	21	0.57	315	0.021	3	1.24	0.012	0.08	0.1	0.07	6.0	<0.1	0.05	4	<0.5	<0.2

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



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Project: ZNT  
 Report Date: November 07, 2012

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Part: 1 of 1

# QUALITY CONTROL REPORT

SMI12000505.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992462	Soil	0.4	31.0	12.3	238	0.3	16.7	7.9	535	2.54	6.3	4.4	0.6	37	1.5	0.3	0.2	50	0.65	0.025	5
REP 992462	QC	0.4	31.4	12.5	255	0.2	16.4	8.5	571	2.63	6.3	2.0	0.7	38	1.6	0.2	0.2	53	0.70	0.027	5
992479	Soil	0.5	9.7	5.3	96	<0.1	15.9	6.6	293	2.60	5.3	1.5	0.6	22	0.1	0.4	0.1	52	0.20	0.034	4
REP 992479	QC	0.5	8.9	5.3	96	<0.1	14.4	6.3	291	2.57	5.5	1.4	0.5	22	0.2	0.3	0.1	50	0.20	0.035	4
Reference Materials																					
STD DS9	Standard	14.4	112.0	140.9	316	1.9	43.5	8.1	620	2.45	23.4	112.1	6.7	70	2.6	5.4	6.6	47	0.77	0.080	15
STD DS9	Standard	13.5	104.9	123.2	301	2.0	40.0	7.8	581	2.48	24.3	127.8	6.4	74	2.3	5.7	6.0	41	0.73	0.079	14
STD DS9	Standard	14.5	114.3	147.7	320	2.0	44.4	8.6	622	2.51	24.6	115.3	7.2	72	2.5	5.6	6.9	55	0.81	0.085	15
STD DS9	Standard	11.4	108.5	128.4	308	1.8	41.8	7.2	584	2.42	26.0	112.8	6.0	68	2.3	5.8	6.2	39	0.69	0.083	12
STD DS9	Standard	14.2	114.6	112.1	322	1.9	41.9	7.8	621	2.51	27.5	119.6	6.9	75	2.5	5.5	6.2	43	0.78	0.091	15
STD DS9	Standard	13.0	106.5	129.4	309	1.7	40.3	7.8	609	2.37	25.1	119.0	6.9	74	2.2	6.0	6.5	40	0.72	0.080	15
STD DS9	Standard	13.4	103.5	129.4	308	1.8	39.9	7.4	596	2.33	26.0	115.0	7.0	79	2.1	6.0	7.2	40	0.75	0.084	15
STD DS9	Standard	12.8	104.0	123.5	308	1.8	39.9	6.8	564	2.32	24.1	129.8	6.2	69	2.5	5.3	5.7	40	0.73	0.081	13
STD DS9	Standard	13.0	115.8	133.4	314	1.9	44.2	8.2	603	2.40	24.4	123.9	7.3	71	2.2	5.2	6.0	48	0.74	0.080	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	0.002	<1



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Project: ZNT  
 Report Date: November 07, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000505.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
992462	Soil	17	0.38	462	0.031	<1	1.04	0.008	0.05	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
REP 992462	QC	18	0.40	474	0.034	3	1.11	0.009	0.05	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
992479	Soil	17	0.38	115	0.045	1	1.07	0.006	0.06	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
REP 992479	QC	17	0.39	114	0.047	1	1.10	0.006	0.07	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	130	0.66	307	0.123	2	0.99	0.090	0.41	2.9	0.21	3.1	5.7	0.20	5	5.5	5.3
STD DS9	Standard	117	0.61	303	0.117	3	0.94	0.084	0.41	2.8	0.20	3.3	5.3	0.15	5	5.4	4.6
STD DS9	Standard	135	0.69	308	0.124	3	1.04	0.089	0.44	3.2	0.25	2.6	6.1	0.26	5	5.1	5.5
STD DS9	Standard	119	0.63	293	0.109	2	0.90	0.078	0.40	3.2	0.26	2.6	5.2	0.17	5	5.4	5.0
STD DS9	Standard	124	0.67	315	0.122	2	1.00	0.094	0.43	3.0	0.21	2.7	5.4	0.14	5	5.9	5.4
STD DS9	Standard	116	0.61	306	0.119	2	0.93	0.086	0.40	2.7	0.20	2.7	5.8	0.10	5	4.6	5.4
STD DS9	Standard	115	0.66	305	0.113	3	0.94	0.084	0.42	3.2	0.24	2.8	5.6	0.14	5	5.2	4.9
STD DS9	Standard	115	0.59	305	0.113	3	0.88	0.079	0.38	3.1	0.20	2.5	5.5	0.10	4	4.9	5.0
STD DS9	Standard	133	0.66	288	0.120	2	0.95	0.085	0.39	2.9	0.21	2.5	5.2	0.15	5	5.7	4.7
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 23, 2012

Report Date: November 01, 2012

Page: 1 of 6

# CERTIFICATE OF ANALYSIS

# SMI12000506.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-07\_201210  
P.O. Number: QZM-ZNT-07  
Number of Samples: 144

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	142	Dry at 60C			SMI
SS80	142	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	142	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

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

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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





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Project: ZNT  
 Report Date: November 01, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000506.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992202	Soil		1.1	13.8	12.2	496	0.5	15.0	10.5	1245	3.36	12.0	1.6	0.6	18	2.1	0.5	0.3	67	0.41	0.040	6
992203	Soil		1.7	13.6	39.7	392	0.8	10.3	9.8	2055	3.07	25.1	<0.5	0.2	17	5.9	0.5	0.2	59	0.57	0.046	5
992204	Soil		1.2	7.8	11.2	435	0.5	9.1	7.3	903	2.83	7.6	<0.5	0.4	13	3.8	0.4	0.2	55	0.42	0.039	4
992205	Soil		0.8	11.5	11.3	273	0.2	13.9	8.3	581	3.17	13.0	<0.5	0.3	13	1.6	0.4	0.1	61	0.30	0.137	4
992206	Soil		1.2	12.3	11.8	285	0.2	11.9	9.1	875	2.85	10.2	0.6	0.3	19	1.7	0.4	0.1	64	0.66	0.037	4
992207	Soil		1.1	17.0	16.5	345	0.2	16.8	8.9	691	3.40	17.7	<0.5	0.5	17	0.7	0.6	0.1	61	0.35	0.080	5
992208	Soil		1.4	12.4	14.3	225	0.3	10.9	7.7	1742	3.93	16.2	<0.5	0.3	12	0.8	0.5	0.2	70	0.31	0.070	5
992209	Soil		0.8	12.5	10.8	401	0.2	15.1	8.3	1118	3.25	15.8	<0.5	0.3	16	1.2	0.4	0.1	62	0.29	0.113	4
992210	Soil		1.2	19.6	9.9	154	0.3	20.0	9.2	819	3.23	22.8	<0.5	0.5	22	0.6	0.6	0.1	62	0.35	0.041	5
992211	Soil		1.3	15.4	14.0	468	0.4	18.3	9.8	949	3.54	28.7	1.4	0.4	24	2.1	0.6	0.1	63	0.43	0.089	4
992212	Soil		1.3	12.0	15.6	250	0.3	12.1	7.3	1597	2.49	9.3	<0.5	0.3	23	1.3	0.3	0.1	51	0.37	0.046	6
992213	Soil		2.4	22.7	129.9	436	0.3	20.9	10.4	1103	3.52	24.2	<0.5	0.4	22	1.1	0.9	0.1	66	0.43	0.049	6
992214	Soil		1.1	11.6	17.6	360	0.4	19.0	10.5	851	3.52	21.8	<0.5	0.6	17	1.2	0.5	0.1	74	0.34	0.057	5
992215	Soil		1.7	10.7	12.3	253	0.3	11.6	8.1	1311	2.98	13.5	<0.5	0.4	15	1.1	0.5	0.1	62	0.22	0.035	4
992216	Soil		1.2	11.4	10.5	263	0.3	11.0	10.4	1862	3.00	16.3	68.3	0.4	18	1.8	0.4	0.1	62	0.41	0.035	5
992217	Soil		1.6	16.3	15.5	245	0.5	17.4	11.0	1221	3.66	39.8	<0.5	0.8	19	0.8	0.7	0.2	70	0.32	0.039	5
992218	Soil		0.8	14.3	10.0	159	0.3	20.2	9.4	562	3.49	21.0	<0.5	0.8	27	0.4	0.5	<0.1	65	0.45	0.042	5
992219	Soil		0.9	26.5	9.9	169	0.3	18.7	9.3	1147	2.93	15.3	<0.5	0.4	28	0.8	0.4	0.1	55	0.83	0.046	7
992220	Soil		0.6	13.1	8.0	227	0.2	16.2	8.6	956	2.90	9.0	<0.5	0.5	22	1.4	0.4	0.1	52	0.46	0.094	5
992221	Soil		0.9	22.9	10.6	139	0.2	20.9	9.8	924	3.03	18.9	<0.5	0.9	33	0.5	0.5	<0.1	56	0.60	0.049	7
992222	Soil		0.7	17.4	9.6	122	0.2	20.9	10.5	648	3.35	25.5	<0.5	0.8	23	0.4	0.5	0.1	63	0.33	0.040	6
992223	Soil		0.8	17.0	11.1	108	<0.1	20.6	10.0	935	3.11	21.6	2.6	0.7	25	0.3	0.5	<0.1	63	0.31	0.030	6
992224	Soil		0.6	7.2	7.9	128	0.2	12.6	7.2	617	2.45	5.9	2.7	0.6	22	0.4	0.3	0.1	49	0.30	0.104	5
992225	Soil		0.7	14.5	9.7	131	0.1	16.8	9.2	1518	2.64	10.4	<0.5	0.5	36	0.7	0.3	0.1	55	0.44	0.046	8
992226	Soil		0.8	11.0	8.5	110	<0.1	14.3	7.8	533	2.77	10.2	<0.5	0.5	26	0.3	0.4	0.1	60	0.31	0.031	5
992227	Soil		0.8	31.3	14.3	321	0.2	18.4	11.1	1511	3.13	23.0	<0.5	0.4	52	2.1	0.4	0.1	63	0.80	0.092	5
992228	Soil		0.9	23.1	14.6	256	0.1	19.3	10.0	1192	2.81	18.2	<0.5	0.4	52	2.2	0.5	<0.1	53	0.88	0.087	5
992229	Soil		0.7	16.7	10.3	144	<0.1	15.0	9.6	1256	3.00	11.4	<0.5	0.4	26	0.6	0.4	0.1	59	0.37	0.074	5
992230	Soil		0.5	11.3	5.9	123	<0.1	17.5	8.3	525	2.92	20.6	<0.5	0.6	24	0.2	0.4	<0.1	55	0.23	0.042	5
992231	Soil		0.7	17.3	10.6	170	0.1	18.7	9.7	1318	2.70	13.4	<0.5	0.7	44	0.8	0.4	<0.1	50	0.77	0.033	5

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Project: ZNT  
 Report Date: November 01, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992202	Soil			20	0.46	310	0.045	3	1.45	0.015	0.11	0.2	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
992203	Soil			18	0.28	265	0.021	2	1.16	0.006	0.05	0.2	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
992204	Soil			17	0.24	221	0.036	2	0.78	0.007	0.06	0.3	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
992205	Soil			18	0.39	174	0.020	2	1.37	0.011	0.08	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
992206	Soil			20	0.27	254	0.016	3	1.13	0.006	0.05	0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
992207	Soil			22	0.41	217	0.021	2	1.46	0.007	0.06	0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
992208	Soil			21	0.27	254	0.020	2	1.46	0.005	0.07	0.1	0.04	3.4	<0.1	<0.05	7	<0.5	<0.2
992209	Soil			20	0.33	303	0.020	2	1.65	0.007	0.07	0.2	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
992210	Soil			23	0.47	216	0.034	2	1.34	0.009	0.08	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
992211	Soil			21	0.48	318	0.024	3	1.42	0.007	0.07	0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
992212	Soil			18	0.24	397	0.025	3	1.03	0.008	0.08	0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
992213	Soil			24	0.48	313	0.029	2	1.53	0.008	0.07	0.1	0.04	5.1	0.1	<0.05	5	<0.5	<0.2
992214	Soil			22	0.29	328	0.037	2	1.74	0.009	0.08	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
992215	Soil			19	0.28	254	0.031	1	0.99	0.006	0.09	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
992216	Soil			18	0.21	514	0.032	2	1.07	0.006	0.09	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
992217	Soil			22	0.37	472	0.038	3	1.48	0.009	0.09	0.1	0.03	5.1	0.1	<0.05	5	<0.5	<0.2
992218	Soil			23	0.49	273	0.035	3	1.55	0.013	0.06	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
992219	Soil			22	0.36	387	0.021	3	1.41	0.009	0.07	<0.1	0.06	5.4	<0.1	<0.05	4	<0.5	<0.2
992220	Soil			20	0.36	280	0.039	2	1.21	0.009	0.11	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
992221	Soil			22	0.44	278	0.038	4	1.34	0.011	0.10	0.1	0.05	5.6	<0.1	<0.05	4	<0.5	<0.2
992222	Soil			23	0.48	192	0.050	2	1.51	0.012	0.08	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
992223	Soil			23	0.42	213	0.048	2	1.34	0.008	0.06	0.1	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2
992224	Soil			17	0.30	165	0.048	3	1.00	0.006	0.09	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
992225	Soil			20	0.35	232	0.044	2	1.21	0.008	0.08	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
992226	Soil			19	0.36	146	0.039	3	1.18	0.007	0.05	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
992227	Soil			21	0.35	290	0.046	5	1.09	0.009	0.09	<0.1	0.04	3.7	<0.1	<0.05	4	<0.5	<0.2
992228	Soil			22	0.41	275	0.039	5	1.16	0.009	0.09	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
992229	Soil			20	0.33	216	0.045	3	1.02	0.007	0.08	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
992230	Soil			19	0.39	156	0.050	2	1.13	0.008	0.07	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
992231	Soil			21	0.49	221	0.035	4	1.27	0.015	0.06	0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
992232	Soil	0.9	20.3	7.1	83	0.1	18.3	9.9	1324	2.74	11.7	<0.5	0.4	42	0.4	0.3	0.1	58	0.43	0.044	7
992233	Soil	0.7	19.1	8.7	119	0.1	15.2	8.5	889	2.54	9.8	<0.5	0.5	40	0.9	0.4	0.1	49	0.70	0.044	5
992234	Soil	0.9	19.3	8.5	94	<0.1	19.3	9.0	792	3.11	15.3	<0.5	0.7	23	0.9	0.5	<0.1	61	0.36	0.030	4
992235	Soil	0.8	64.2	12.8	225	0.6	45.9	13.3	1153	4.49	24.5	<0.5	1.5	59	1.7	0.6	0.2	71	0.98	0.081	16
992236	Soil	0.7	26.6	12.1	136	0.2	23.0	8.9	725	3.12	12.7	0.6	0.6	49	0.5	0.4	0.1	59	0.58	0.050	8
992237	Soil	1.2	21.7	15.8	178	0.2	20.1	13.6	1539	3.03	15.8	<0.5	0.2	31	1.1	0.3	0.2	58	0.39	0.089	6
992238	Soil	0.8	7.3	7.1	191	<0.1	12.0	8.0	1297	2.37	9.4	<0.5	0.2	26	0.9	0.3	0.2	47	0.30	0.063	4
992239	Soil	0.7	15.5	6.9	75	0.2	15.8	7.3	710	2.37	8.4	<0.5	0.3	25	0.4	0.3	<0.1	50	0.26	0.033	7
992240	Soil	0.8	7.9	6.7	109	<0.1	9.0	7.0	681	2.31	7.7	<0.5	0.3	15	0.6	0.3	<0.1	54	0.22	0.024	3
992241	Soil	0.5	9.5	9.0	104	<0.1	14.0	7.4	859	2.94	14.8	<0.5	0.3	12	0.4	0.3	0.1	61	0.26	0.036	4
992242	Soil	0.8	14.5	7.3	116	<0.1	17.1	8.2	831	2.65	13.2	5.8	0.3	23	0.6	0.3	<0.1	55	0.35	0.041	4
992243	Soil	1.0	35.6	11.6	139	0.5	23.8	10.1	1002	3.07	23.7	<0.5	0.5	40	1.3	0.5	0.1	58	0.88	0.063	9
992244	Soil	1.2	27.5	12.1	184	0.5	21.7	10.0	1184	3.16	20.9	0.6	0.6	38	0.9	0.5	0.1	57	0.83	0.068	8
992245	Soil	0.8	33.6	9.3	161	0.8	22.2	7.8	725	2.96	16.7	<0.5	0.6	35	0.8	0.5	<0.1	55	0.76	0.054	11
992246	Soil	0.9	38.2	11.6	222	0.5	20.2	10.2	1916	3.02	21.3	<0.5	0.4	34	1.7	0.4	0.1	58	0.69	0.072	12
992247	Soil	0.8	15.5	8.4	233	0.5	16.8	8.0	639	2.80	13.9	<0.5	0.5	24	1.1	0.4	<0.1	52	0.48	0.047	5
992248	Soil	1.0	14.7	9.3	115	0.3	12.4	7.8	596	2.66	10.9	<0.5	0.2	16	0.8	0.3	<0.1	54	0.24	0.031	4
992249	Soil	0.7	14.2	11.4	318	0.4	17.2	9.4	1432	2.94	13.7	<0.5	0.6	24	1.4	0.4	0.1	63	0.38	0.108	5
992250	Soil	0.8	11.5	6.7	145	0.3	9.3	6.6	623	2.15	7.7	<0.5	0.2	14	1.1	0.4	<0.1	50	0.29	0.028	4
992300	Soil	1.1	17.5	20.0	426	0.8	15.4	10.5	1828	3.00	13.7	<0.5	0.3	29	4.4	0.4	0.1	61	0.58	0.044	6
992301	Soil	0.7	8.6	7.6	189	<0.1	13.1	6.6	814	2.68	9.7	<0.5	0.4	14	0.6	0.4	<0.1	53	0.22	0.083	4
992302	Soil	2.0	38.0	12.8	388	1.0	30.5	11.9	2945	3.61	20.0	<0.5	0.8	43	1.7	0.6	0.1	65	0.88	0.073	17
992303	Soil	1.0	7.3	7.7	260	0.3	6.7	5.4	1549	3.00	7.1	<0.5	0.3	18	1.7	0.3	0.2	46	0.54	0.050	5
992304	Soil	0.8	9.7	8.6	199	0.3	9.7	7.3	1434	2.77	10.9	<0.5	0.4	12	1.2	0.3	0.2	56	0.27	0.035	4
992305	Soil	1.0	14.1	11.3	278	0.2	11.0	8.2	1798	4.70	13.2	<0.5	0.4	15	1.0	0.3	0.1	45	0.34	0.079	5
992306	Soil	0.7	14.8	12.3	291	<0.1	15.2	9.3	1083	3.26	15.1	<0.5	0.5	15	1.1	0.4	0.2	57	0.32	0.129	5
992307	Soil	0.7	10.3	11.7	174	0.1	10.5	5.0	290	2.78	10.5	<0.5	0.2	15	0.5	0.4	0.1	57	0.24	0.084	4
992308	Soil	0.6	7.8	8.8	252	0.1	9.2	5.9	788	2.48	8.8	<0.5	0.2	16	1.6	0.3	0.1	49	0.33	0.088	4
992309	Soil	0.8	11.1	7.3	173	0.2	17.6	7.1	727	2.82	53.7	<0.5	0.4	17	0.5	0.3	<0.1	54	0.33	0.047	4
992310	Soil	0.6	9.5	9.2	173	0.1	10.9	5.2	510	2.74	10.3	<0.5	0.2	12	0.6	0.3	0.1	57	0.17	0.083	4

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992232	Soil	22	0.41	257	0.028	1	1.48	0.009	0.10	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
992233	Soil	19	0.37	238	0.033	4	1.11	0.012	0.09	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
992234	Soil	21	0.43	198	0.051	2	1.11	0.009	0.06	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
992235	Soil	45	0.74	505	0.015	3	3.65	0.023	0.16	<0.1	0.04	15.8	0.1	<0.05	9	<0.5	<0.2
992236	Soil	26	0.59	235	0.033	2	1.65	0.013	0.09	<0.1	0.05	6.8	<0.1	<0.05	5	<0.5	<0.2
992237	Soil	25	0.37	214	0.026	2	1.64	0.010	0.09	0.2	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
992238	Soil	16	0.21	213	0.028	<1	0.87	0.006	0.05	0.2	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
992239	Soil	19	0.34	187	0.024	<1	1.09	0.006	0.05	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
992240	Soil	15	0.21	151	0.031	2	0.73	0.005	0.05	0.2	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
992241	Soil	18	0.32	155	0.019	1	1.37	0.005	0.04	0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
992242	Soil	19	0.35	184	0.033	<1	1.07	0.007	0.07	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
992243	Soil	23	0.47	325	0.022	4	1.47	0.010	0.08	0.2	0.06	6.5	<0.1	<0.05	5	0.8	<0.2
992244	Soil	23	0.47	298	0.022	<1	1.41	0.013	0.07	0.2	0.07	6.7	<0.1	<0.05	5	<0.5	<0.2
992245	Soil	25	0.45	398	0.023	3	1.74	0.009	0.08	0.1	0.08	7.5	<0.1	<0.05	5	<0.5	<0.2
992246	Soil	22	0.41	479	0.018	2	1.58	0.008	0.07	0.2	0.06	5.9	<0.1	<0.05	5	<0.5	<0.2
992247	Soil	18	0.38	279	0.026	1	1.30	0.007	0.07	0.1	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2
992248	Soil	17	0.26	243	0.023	<1	1.03	0.005	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
992249	Soil	21	0.33	357	0.042	<1	1.63	0.010	0.13	0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
992250	Soil	13	0.23	233	0.025	<1	0.70	0.005	0.06	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
992300	Soil	17	0.30	320	0.034	2	1.11	0.007	0.07	0.2	0.05	3.6	<0.1	<0.05	5	0.6	<0.2
992301	Soil	16	0.33	222	0.032	<1	0.99	0.005	0.06	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
992302	Soil	30	0.51	527	0.017	1	2.56	0.009	0.10	0.2	0.08	10.5	0.1	<0.05	8	0.6	<0.2
992303	Soil	14	0.16	450	0.023	<1	0.68	0.005	0.07	0.2	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
992304	Soil	17	0.24	342	0.035	2	0.87	0.005	0.06	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
992305	Soil	16	0.25	614	0.005	<1	1.39	0.006	0.07	0.1	0.03	4.8	<0.1	<0.05	7	<0.5	<0.2
992306	Soil	19	0.39	349	0.020	3	1.43	0.005	0.05	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
992307	Soil	16	0.28	175	0.020	1	1.20	0.005	0.04	0.2	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
992308	Soil	14	0.24	294	0.022	<1	0.92	0.005	0.07	0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
992309	Soil	18	0.37	142	0.025	2	1.42	0.005	0.07	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
992310	Soil	16	0.26	191	0.024	1	1.02	0.005	0.05	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 01, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992311	Soil	0.9	11.7	10.3	236	0.3	13.6	7.7	857	2.75	14.8	<0.5	0.2	16	0.8	0.4	<0.1	56	0.27	0.037	4
992312	Soil	0.7	8.4	8.1	173	0.3	11.9	6.6	684	2.48	7.9	<0.5	0.2	19	0.7	0.3	0.1	50	0.32	0.087	4
992313	Soil	0.9	11.5	8.1	134	0.2	9.9	6.6	992	2.54	11.6	<0.5	0.2	18	0.9	0.3	0.1	58	0.44	0.046	4
992403	Soil	0.9	16.0	10.9	218	0.9	11.7	7.8	1037	2.52	7.4	1.2	0.3	23	3.5	0.3	0.1	52	0.74	0.029	6
992404	Soil	0.7	11.6	7.0	144	0.3	17.5	7.1	337	2.92	11.3	<0.5	0.5	16	0.6	0.4	<0.1	56	0.19	0.032	5
992405	Soil	1.4	7.7	9.3	220	0.3	7.5	5.7	1068	2.06	6.8	4.7	0.1	16	3.0	0.3	<0.1	44	0.29	0.039	3
992406	Soil	0.9	7.0	6.0	240	0.2	9.7	5.9	426	2.29	5.9	<0.5	0.3	13	1.2	0.3	<0.1	48	0.42	0.026	3
992407	Soil	1.0	41.6	11.1	523	1.7	22.8	9.0	1482	2.66	9.2	<0.5	0.6	54	6.2	0.4	0.1	52	1.27	0.068	20
992408	Soil	1.1	73.5	10.6	435	2.3	34.6	10.1	1359	3.22	10.7	<0.5	0.8	61	6.7	0.4	0.2	52	1.41	0.072	22
992409	Soil	0.8	25.1	6.6	152	0.5	12.9	5.2	457	2.15	12.8	<0.5	0.2	22	1.5	0.4	<0.1	44	1.10	0.046	5
992410	Soil	1.0	17.9	10.0	169	0.3	7.2	8.6	583	2.15	7.3	<0.5	0.2	13	2.4	0.3	0.2	50	0.44	0.027	4
992411	Soil	0.8	16.4	8.2	207	0.2	18.9	8.8	522	3.25	14.4	<0.5	0.6	14	0.8	0.5	<0.1	59	0.18	0.049	5
992412	Soil	0.8	9.4	9.3	254	0.1	13.3	8.2	867	2.88	13.7	1.0	0.2	15	2.0	0.4	0.1	58	0.31	0.043	4
992413	Soil	1.2	9.3	17.4	464	0.2	12.6	8.7	1562	3.05	12.8	<0.5	0.2	11	3.2	0.4	0.1	59	0.36	0.066	4
992414	Soil	0.6	8.8	11.5	439	0.2	11.8	8.1	1921	2.90	6.6	<0.5	0.3	18	2.4	0.3	0.2	55	0.48	0.134	4
992415	Soil	0.6	7.4	8.7	126	0.1	5.9	7.0	925	2.02	4.1	<0.5	0.3	13	1.1	0.2	0.1	50	0.28	0.027	4
992416	Soil	0.9	13.5	10.2	379	0.3	14.8	9.7	1539	3.07	9.3	0.7	0.2	23	2.6	0.4	0.1	58	0.52	0.072	4
992417	Soil	0.6	6.7	10.4	325	0.1	8.4	8.0	2197	2.54	5.3	<0.5	0.2	10	4.6	0.3	0.2	48	0.18	0.113	4
992418	Soil	0.5	5.8	9.6	277	0.1	4.6	5.1	1507	1.88	3.9	<0.5	0.2	15	1.2	0.2	0.2	43	0.37	0.059	4
992420	Soil	0.6	8.9	10.4	359	0.2	8.0	6.8	3883	2.06	5.6	<0.5	0.1	12	2.9	0.2	0.2	45	0.15	0.043	5
992421	Soil	0.8	12.3	8.8	174	0.2	16.2	8.1	516	3.13	11.9	<0.5	0.6	19	0.8	0.5	<0.1	66	0.30	0.035	4
992422	Soil	0.7	7.5	9.6	215	0.4	8.1	5.4	779	2.52	7.4	<0.5	0.1	12	1.1	0.3	0.2	54	0.15	0.068	4
992423	Soil	0.9	13.1	10.3	161	0.3	16.5	7.4	523	3.47	14.6	<0.5	0.5	8	0.5	0.4	0.1	64	0.08	0.070	4
992424	Soil	0.9	7.1	9.2	118	0.1	6.9	5.8	859	2.52	5.5	<0.5	0.3	18	1.3	0.3	0.2	54	0.28	0.043	4
992425	Soil	0.7	6.7	8.7	98	0.1	7.5	5.0	473	2.38	7.1	1.0	0.4	12	0.5	0.3	0.1	59	0.16	0.045	4
992426	Soil	0.7	17.1	9.5	139	<0.1	16.3	7.3	374	3.24	14.5	<0.5	0.5	21	0.3	0.4	0.1	64	0.32	0.088	4
992427	Soil	0.8	7.2	7.3	85	0.3	6.7	4.1	440	2.36	4.6	<0.5	0.4	21	0.9	0.3	0.1	63	0.31	0.034	4
992428	Soil	0.8	15.6	9.0	109	0.2	18.8	8.2	532	2.83	10.9	<0.5	0.4	22	0.4	0.4	<0.1	58	0.25	0.037	5
992429	Soil	0.9	13.7	13.8	282	0.2	15.9	7.1	546	2.87	11.1	<0.5	0.4	20	2.0	0.4	<0.1	56	0.26	0.033	5
992430	Soil	1.0	8.6	12.9	198	0.2	11.1	7.8	571	3.51	14.2	<0.5	0.3	12	0.6	0.3	0.2	75	0.19	0.049	4

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CERTIFICATE OF ANALYSIS

SMI12000506.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992311	Soil	17	0.33	188	0.023	<1	1.19	0.005	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
992312	Soil	15	0.27	197	0.023	<1	1.12	0.005	0.08	0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
992313	Soil	15	0.24	194	0.024	1	1.06	0.006	0.09	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
992403	Soil	16	0.28	228	0.016	2	1.26	0.007	0.04	0.1	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
992404	Soil	18	0.43	124	0.028	1	1.39	0.005	0.05	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992405	Soil	11	0.19	223	0.021	1	0.68	0.005	0.07	0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
992406	Soil	14	0.27	145	0.021	2	1.02	0.005	0.05	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
992407	Soil	22	0.43	462	0.013	5	2.09	0.008	0.10	0.2	0.08	8.5	<0.1	<0.05	5	1.1	<0.2
992408	Soil	24	0.46	501	0.011	2	2.43	0.008	0.13	0.2	0.10	10.7	<0.1	<0.05	7	0.9	<0.2
992409	Soil	14	0.27	166	0.017	1	1.03	0.006	0.04	<0.1	0.10	2.9	<0.1	<0.05	4	<0.5	<0.2
992410	Soil	13	0.15	150	0.023	<1	0.78	0.005	0.04	0.2	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
992411	Soil	20	0.45	118	0.031	<1	1.53	0.007	0.05	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
992412	Soil	19	0.38	190	0.023	2	1.14	0.006	0.05	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
992413	Soil	18	0.32	227	0.019	2	1.37	0.006	0.05	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
992414	Soil	19	0.34	413	0.035	3	1.14	0.007	0.13	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
992415	Soil	14	0.17	122	0.035	2	0.57	0.006	0.05	0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
992416	Soil	20	0.37	253	0.023	3	1.12	0.006	0.07	0.1	0.06	2.6	<0.1	<0.05	5	<0.5	<0.2
992417	Soil	15	0.21	233	0.029	2	0.91	0.007	0.05	0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
992418	Soil	11	0.15	336	0.028	2	0.57	0.005	0.07	0.2	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
992420	Soil	13	0.12	258	0.022	<1	0.83	0.006	0.04	0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
992421	Soil	22	0.43	105	0.031	2	1.43	0.006	0.05	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
992422	Soil	15	0.21	124	0.024	1	0.88	0.007	0.04	0.2	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
992423	Soil	21	0.39	89	0.024	1	1.72	0.006	0.04	0.2	0.04	3.4	<0.1	<0.05	6	<0.5	<0.2
992424	Soil	14	0.16	181	0.037	<1	0.59	0.006	0.06	0.2	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
992425	Soil	14	0.20	137	0.028	1	0.74	0.006	0.05	0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
992426	Soil	22	0.45	142	0.024	1	1.76	0.006	0.05	0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
992427	Soil	14	0.14	137	0.042	1	0.49	0.006	0.06	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
992428	Soil	21	0.48	140	0.036	2	1.32	0.007	0.06	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
992429	Soil	19	0.46	369	0.019	1	1.30	0.006	0.05	0.1	0.02	3.2	0.1	<0.05	5	<0.5	<0.2
992430	Soil	19	0.26	301	0.023	1	1.30	0.006	0.04	0.2	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
				0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
992431	Soil			0.9	6.5	20.0	130	0.2	8.4	6.5	607	2.52	6.8	<0.5	0.2	19	1.1	0.3	0.2	70	0.30	0.046	4
992432	Soil			0.9	12.4	12.7	263	0.1	16.1	10.7	1949	3.25	9.3	<0.5	0.3	29	2.0	0.4	0.1	68	0.35	0.094	4
992433	Soil			0.9	14.5	24.6	459	0.3	17.3	11.2	1635	3.56	12.3	2.3	0.3	18	2.6	0.4	0.2	74	0.41	0.067	5
992434	Soil			0.7	354.2	36.2	760	2.8	42.7	11.1	1423	3.59	12.6	0.7	0.7	36	14.1	0.6	0.3	67	1.38	0.114	32
992435	Soil			0.7	9.0	8.3	163	0.2	14.6	7.1	714	2.60	9.0	<0.5	0.3	20	0.5	0.3	0.1	64	0.32	0.039	4
992436	Soil			0.7	22.7	8.7	115	0.3	14.4	5.8	424	2.18	8.2	2.0	0.3	16	0.5	0.2	0.1	51	0.20	0.033	7
992437	Soil			1.1	8.4	11.7	141	0.1	11.0	7.5	2336	3.01	10.5	<0.5	0.2	13	0.7	0.3	0.2	61	0.26	0.046	4
992438	Soil			0.6	10.3	12.4	181	0.3	11.5	6.6	495	2.65	7.8	<0.5	0.4	14	0.3	0.3	0.1	58	0.21	0.067	5
992439	Soil			0.7	9.7	8.0	70	<0.1	11.5	5.0	247	2.42	11.6	<0.5	0.2	15	0.2	0.3	<0.1	59	0.13	0.032	4
992440	Soil			0.9	15.5	8.5	203	0.3	21.8	8.8	363	3.57	12.8	<0.5	0.9	11	0.2	0.4	0.1	67	0.15	0.141	5
992441	Soil			0.9	13.0	10.3	183	0.3	19.1	8.9	368	3.67	15.1	<0.5	0.8	13	0.3	0.3	0.2	68	0.13	0.127	4
992442	Soil			1.0	23.8	16.4	175	0.2	23.0	10.8	563	3.57	18.4	0.8	0.9	12	0.3	0.6	<0.1	67	0.12	0.054	5
992443	Soil			0.7	12.3	10.5	148	<0.1	15.7	7.4	515	3.16	11.2	<0.5	0.4	25	0.5	0.4	0.1	66	0.29	0.063	4
992444	Soil			1.2	8.3	10.9	167	0.3	9.2	5.0	378	2.53	10.3	1.3	0.2	24	0.7	0.4	0.1	64	0.61	0.051	4
992447	Soil			0.8	7.0	11.5	261	0.2	9.4	7.0	1347	2.39	11.6	<0.5	<0.1	17	2.2	0.3	0.1	58	0.38	0.044	4
992448	Soil			0.8	13.0	12.1	242	<0.1	19.3	8.8	416	3.51	20.7	<0.5	0.5	12	0.5	0.4	0.1	70	0.18	0.082	5
992450	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
992451	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
992501	Soil			0.8	71.4	8.9	152	0.6	54.7	12.3	908	3.78	9.7	0.8	1.0	82	0.9	0.7	0.2	92	1.40	0.115	19
992502	Soil			1.0	78.1	11.4	148	0.6	59.6	16.7	1401	4.46	11.5	1.0	1.3	68	0.6	0.5	0.2	105	0.84	0.105	20
992503	Soil			0.5	17.5	5.7	86	<0.1	21.8	9.5	536	2.80	6.8	1.9	0.6	31	0.2	0.3	0.1	58	0.33	0.040	6
992504	Soil			0.8	58.2	8.8	146	0.4	40.1	11.7	1100	3.23	6.7	1.2	0.8	88	1.3	0.5	0.2	60	1.20	0.083	17
992505	Soil			0.5	14.7	7.1	115	<0.1	15.0	8.8	478	2.51	4.0	0.7	0.5	24	0.6	0.3	0.1	55	0.27	0.046	5
992506	Soil			0.5	16.1	7.3	111	<0.1	15.1	12.3	785	2.56	3.9	1.6	0.4	34	0.6	0.3	0.1	56	0.37	0.062	5
992507	Soil			0.5	18.5	6.7	178	<0.1	14.9	8.4	805	2.36	4.0	0.9	0.5	22	1.2	0.3	0.2	52	0.29	0.064	6
992508	Soil			0.9	66.4	13.7	254	0.8	58.5	16.2	1006	5.09	13.9	0.9	1.4	62	1.9	0.4	0.3	97	0.95	0.093	9
992509	Soil			0.7	16.4	11.1	131	<0.1	16.9	10.5	662	2.95	11.3	<0.5	0.7	23	0.8	0.4	<0.1	66	0.24	0.029	4
992510	Soil			0.6	16.7	8.5	267	0.1	14.6	9.7	1403	2.23	3.5	0.6	0.1	39	1.9	0.2	0.1	51	0.51	0.063	4
992511	Soil			0.7	26.1	7.6	169	0.2	27.4	13.3	1469	3.07	10.2	1.5	0.6	48	0.9	0.4	0.2	68	0.82	0.067	6
992512	Soil			0.7	15.1	9.5	226	<0.1	15.9	11.5	1445	2.63	4.6	0.6	0.4	33	1.4	0.3	0.1	57	0.40	0.113	5

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Project: ZNT  
 Report Date: November 01, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992431	Soil	16	0.23	168	0.028	1	0.79	0.005	0.07	0.2	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
992432	Soil	21	0.42	304	0.033	1	1.05	0.007	0.07	0.2	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
992433	Soil	23	0.52	211	0.031	2	1.54	0.007	0.06	0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
992434	Soil	29	0.53	454	0.029	2	2.16	0.012	0.06	0.2	0.12	10.2	0.2	0.11	6	<0.5	<0.2
992435	Soil	19	0.33	302	0.029	1	1.21	0.007	0.04	0.2	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
992436	Soil	18	0.35	255	0.021	<1	1.31	0.007	0.05	0.2	0.04	3.4	0.1	<0.05	5	<0.5	<0.2
992437	Soil	16	0.21	221	0.020	<1	0.97	0.005	0.05	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
992438	Soil	18	0.29	186	0.020	1	1.32	0.006	0.05	0.1	0.04	3.1	<0.1	<0.05	6	<0.5	<0.2
992439	Soil	17	0.28	150	0.023	<1	0.87	0.005	0.04	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
992440	Soil	26	0.44	127	0.025	2	2.31	0.007	0.04	0.1	0.06	4.1	<0.1	<0.05	6	<0.5	<0.2
992441	Soil	23	0.35	128	0.017	<1	2.20	0.005	0.04	0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
992442	Soil	23	0.50	143	0.032	1	1.75	0.006	0.04	0.1	0.04	4.7	<0.1	<0.05	5	<0.5	<0.2
992443	Soil	20	0.38	181	0.024	1	1.30	0.006	0.05	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
992444	Soil	15	0.23	155	0.026	2	0.79	0.006	0.05	0.2	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
992447	Soil	15	0.29	187	0.020	1	0.90	0.005	0.05	0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
992448	Soil	25	0.53	105	0.025	1	1.74	0.007	0.04	0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
992450	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
992451	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
992501	Soil	44	0.89	372	0.012	4	3.01	0.014	0.20	0.2	0.08	11.8	0.1	0.17	8	<0.5	<0.2
992502	Soil	51	1.05	411	0.013	3	3.59	0.015	0.22	0.2	0.06	13.1	0.1	0.14	9	<0.5	<0.2
992503	Soil	22	0.50	135	0.037	1	1.21	0.012	0.08	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
992504	Soil	31	0.72	378	0.008	2	2.07	0.011	0.13	0.1	0.05	8.3	<0.1	0.08	6	<0.5	<0.2
992505	Soil	18	0.36	121	0.048	2	0.87	0.006	0.06	0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
992506	Soil	19	0.34	161	0.033	2	0.95	0.006	0.07	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
992507	Soil	18	0.34	162	0.044	2	0.89	0.006	0.07	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
992508	Soil	50	0.98	523	0.005	1	3.89	0.018	0.20	<0.1	0.06	12.0	0.1	0.07	11	<0.5	<0.2
992509	Soil	21	0.38	137	0.044	1	0.95	0.007	0.04	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
992510	Soil	17	0.31	221	0.027	3	0.80	0.005	0.07	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
992511	Soil	29	0.56	262	0.014	2	1.68	0.008	0.09	0.1	0.03	6.0	<0.1	0.10	5	<0.5	<0.2
992512	Soil	20	0.39	234	0.035	2	0.98	0.006	0.07	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 01, 2012

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CERTIFICATE OF ANALYSIS

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992513	Soil	0.7	15.9	8.4	138	<0.1	16.7	10.2	711	2.92	8.6	0.8	0.7	22	0.5	0.4	0.1	65	0.31	0.030	5
992514	Soil	1.1	19.8	7.4	59	<0.1	23.3	10.1	518	2.87	8.6	1.7	0.9	47	0.3	0.4	0.1	64	0.80	0.049	5
992516	Soil	0.6	20.3	6.6	152	<0.1	14.1	6.9	407	2.42	5.2	<0.5	0.3	27	1.1	0.3	0.1	56	0.49	0.049	4
992517	Soil	0.6	23.9	7.3	280	0.2	11.1	9.6	1206	1.94	3.5	0.8	0.3	58	2.0	0.3	0.1	49	0.78	0.057	4
992518	Soil	0.8	70.7	8.0	81	0.7	39.4	10.5	586	2.93	7.5	<0.5	0.7	81	3.0	0.3	0.1	59	1.56	0.047	15
992519	Soil	0.9	19.2	5.2	125	0.1	15.3	7.6	375	1.82	5.2	<0.5	0.2	78	1.0	0.3	<0.1	32	2.11	0.058	3
992521	Soil	0.8	70.8	10.5	490	0.7	32.0	14.6	1663	2.56	3.4	0.7	0.6	59	4.3	0.3	0.2	38	2.03	0.063	6
992523	Soil	1.1	38.2	8.3	159	0.3	31.0	11.6	785	3.28	8.6	0.6	0.9	41	1.4	0.5	0.2	74	1.07	0.046	14
992524	Soil	0.8	33.6	9.9	203	0.2	28.8	14.2	1543	3.06	6.2	<0.5	0.6	68	1.6	0.3	0.2	65	1.16	0.082	7
992526	Soil	0.8	98.8	7.9	107	1.2	59.7	10.0	540	3.52	5.5	2.5	1.3	109	3.1	0.5	0.2	67	2.16	0.128	31
992527	Soil	1.0	24.0	6.1	105	0.3	22.6	8.3	563	2.30	6.1	0.6	0.5	65	1.2	0.3	0.1	42	1.49	0.052	5
992528	Soil	1.1	27.7	10.6	364	0.3	22.3	13.6	2586	2.74	6.5	0.7	0.2	63	2.4	0.3	0.1	56	0.97	0.097	5
992529	Soil	0.8	34.9	5.3	115	0.3	18.1	6.0	659	1.79	11.1	0.7	0.2	79	1.0	0.4	<0.1	27	2.47	0.082	7
992530	Soil	0.9	34.1	6.7	128	0.3	21.3	8.6	723	2.33	16.9	1.0	0.3	52	1.3	0.4	<0.1	39	1.68	0.065	6
992531	Soil	0.7	8.6	5.8	153	<0.1	15.3	7.5	430	2.55	7.5	<0.5	0.4	15	0.4	0.3	<0.1	59	0.23	0.022	4
992532	Soil	0.9	26.2	17.4	169	0.6	19.5	6.4	467	2.08	5.1	<0.5	0.5	37	0.9	0.2	0.1	61	0.55	0.047	11
992533	Soil	1.0	8.7	8.6	205	0.3	10.2	7.6	1340	2.46	6.3	0.6	0.4	20	1.6	0.3	0.1	60	0.29	0.041	4
992534	Soil	1.1	7.1	6.8	114	0.1	7.6	8.1	1133	1.87	2.9	<0.5	0.1	19	2.0	0.2	0.1	45	0.33	0.042	4
992535	Soil	0.7	6.1	8.5	127	0.2	7.9	5.4	476	2.34	4.8	0.6	0.4	15	0.8	0.3	0.2	57	0.25	0.045	4
992536	Soil	1.0	9.7	8.7	194	0.2	10.8	8.0	1487	3.29	5.4	0.7	0.4	15	1.4	0.3	0.2	61	0.34	0.053	4
992538	Soil	1.2	66.0	8.1	302	2.2	21.5	7.1	1536	2.15	6.3	0.8	0.3	45	5.3	0.5	0.1	36	2.16	0.104	13
992539	Soil	0.9	21.8	16.2	430	0.4	14.6	13.2	2947	3.43	12.6	0.7	0.2	15	2.3	0.3	0.2	69	0.37	0.070	5
992540	Soil	1.1	15.3	15.1	290	0.5	10.3	10.3	2870	2.90	8.1	<0.5	0.2	17	2.1	0.4	0.2	62	0.34	0.069	5
992541	Soil	0.8	7.1	8.3	207	0.1	8.1	6.1	917	2.60	6.6	<0.5	0.4	10	1.6	0.4	0.1	59	0.23	0.030	4



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992513	Soil	22	0.37	153	0.039	1	1.10	0.006	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
992514	Soil	27	0.50	143	0.015	2	1.40	0.009	0.07	0.1	0.05	5.6	<0.1	0.11	4	<0.5	<0.2
992516	Soil	17	0.29	114	0.031	2	0.91	0.006	0.04	<0.1	0.02	2.4	<0.1	0.05	4	<0.5	<0.2
992517	Soil	14	0.25	245	0.031	4	0.64	0.005	0.07	0.1	0.01	1.8	<0.1	0.07	3	<0.5	<0.2
992518	Soil	26	0.54	314	0.010	2	1.76	0.011	0.08	<0.1	0.05	7.3	<0.1	0.10	5	<0.5	<0.2
992519	Soil	17	0.46	133	0.008	10	0.94	0.008	0.07	<0.1	0.04	2.4	<0.1	0.15	3	<0.5	<0.2
992521	Soil	20	0.52	268	0.017	5	1.54	0.015	0.05	<0.1	0.04	4.9	<0.1	0.11	4	<0.5	<0.2
992523	Soil	30	0.56	209	0.020	3	1.85	0.010	0.09	0.1	0.03	8.0	<0.1	0.09	5	<0.5	<0.2
992524	Soil	28	0.52	253	0.010	2	1.89	0.010	0.10	0.1	0.04	5.0	<0.1	0.11	6	<0.5	<0.2
992526	Soil	35	0.68	380	0.005	3	3.12	0.020	0.10	0.1	0.08	12.2	0.1	0.21	7	1.0	<0.2
992527	Soil	21	0.50	166	0.012	4	1.21	0.009	0.07	0.1	0.04	4.7	<0.1	0.11	4	<0.5	<0.2
992528	Soil	23	0.44	389	0.014	2	1.38	0.008	0.09	0.1	0.04	3.1	<0.1	0.07	5	<0.5	<0.2
992529	Soil	15	0.40	251	0.008	5	1.03	0.010	0.05	<0.1	0.07	2.5	<0.1	0.17	3	<0.5	<0.2
992530	Soil	19	0.42	252	0.010	5	1.16	0.008	0.07	<0.1	0.05	3.6	<0.1	0.11	4	<0.5	<0.2
992531	Soil	18	0.37	127	0.033	<1	1.17	0.006	0.03	0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
992532	Soil	27	0.43	358	0.009	<1	2.14	0.009	0.06	<0.1	0.05	4.9	<0.1	0.05	7	<0.5	<0.2
992533	Soil	16	0.26	189	0.025	1	0.83	0.005	0.06	0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
992534	Soil	14	0.18	176	0.021	1	0.60	0.004	0.12	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
992535	Soil	15	0.21	152	0.036	1	0.75	0.006	0.06	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
992536	Soil	17	0.24	180	0.031	1	0.77	0.005	0.05	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
992538	Soil	18	0.34	438	0.010	2	1.38	0.007	0.06	0.2	0.11	5.0	0.1	0.19	4	0.7	<0.2
992539	Soil	20	0.35	379	0.023	1	1.35	0.005	0.07	0.2	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
992540	Soil	18	0.21	253	0.028	2	0.93	0.006	0.06	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
992541	Soil	14	0.23	186	0.030	1	0.68	0.005	0.07	0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2



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Project: ZNT  
 Report Date: November 01, 2012

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QUALITY CONTROL REPORT

SMI12000506.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
992214	Soil			1.1	11.6	17.6	360	0.4	19.0	10.5	851	3.52	21.8	<0.5	0.6	17	1.2	0.5	0.1	74	0.34	0.057	5
REP 992214	QC			1.0	11.6	17.1	372	0.4	18.6	10.4	821	3.38	21.4	0.6	0.5	16	1.4	0.4	0.1	73	0.34	0.057	5
992230	Soil			0.5	11.3	5.9	123	<0.1	17.5	8.3	525	2.92	20.6	<0.5	0.6	24	0.2	0.4	<0.1	55	0.23	0.042	5
REP 992230	QC			0.6	11.1	5.8	123	<0.1	17.6	7.7	517	2.83	19.9	0.9	0.7	21	0.3	0.4	<0.1	56	0.22	0.046	5
992250	Soil			0.8	11.5	6.7	145	0.3	9.3	6.6	623	2.15	7.7	<0.5	0.2	14	1.1	0.4	<0.1	50	0.29	0.028	4
REP 992250	QC			0.7	11.8	6.8	147	0.3	9.9	6.6	624	2.14	8.0	<0.5	0.2	14	1.2	0.4	<0.1	52	0.31	0.027	4
992404	Soil			0.7	11.6	7.0	144	0.3	17.5	7.1	337	2.92	11.3	<0.5	0.5	16	0.6	0.4	<0.1	56	0.19	0.032	5
REP 992404	QC			0.7	12.5	7.0	147	0.2	17.3	6.9	334	2.96	10.8	<0.5	0.5	15	0.5	0.4	<0.1	59	0.19	0.030	5
992425	Soil			0.7	6.7	8.7	98	0.1	7.5	5.0	473	2.38	7.1	1.0	0.4	12	0.5	0.3	0.1	59	0.16	0.045	4
REP 992425	QC			0.7	6.7	8.5	99	0.2	7.4	5.1	464	2.44	7.2	<0.5	0.4	12	0.5	0.3	0.1	61	0.16	0.043	4
992441	Soil			0.9	13.0	10.3	183	0.3	19.1	8.9	368	3.67	15.1	<0.5	0.8	13	0.3	0.3	0.2	68	0.13	0.127	4
REP 992441	QC			0.9	13.7	10.0	184	0.3	19.4	9.2	374	3.78	14.8	46.3	0.8	12	0.2	0.3	0.1	68	0.13	0.127	4
992506	Soil			0.5	16.1	7.3	111	<0.1	15.1	12.3	785	2.56	3.9	1.6	0.4	34	0.6	0.3	0.1	56	0.37	0.062	5
REP 992506	QC			0.6	16.9	7.6	112	<0.1	15.4	12.6	812	2.61	4.3	0.5	0.4	35	0.6	0.3	0.1	58	0.38	0.062	5
992541	Soil			0.8	7.1	8.3	207	0.1	8.1	6.1	917	2.60	6.6	<0.5	0.4	10	1.6	0.4	0.1	59	0.23	0.030	4
REP 992541	QC			0.8	6.9	8.0	202	<0.1	7.6	6.0	895	2.59	6.3	24.6	0.4	9	1.5	0.3	0.1	56	0.23	0.030	4
Reference Materials																							
STD DS9	Standard			12.9	109.5	124.9	307	1.8	40.5	7.8	613	2.38	25.9	120.2	6.4	72	2.4	5.9	6.4	41	0.76	0.079	13
STD DS9	Standard			13.8	108.9	129.4	315	1.9	42.1	8.2	597	2.43	25.7	114.8	6.6	69	2.3	5.3	6.6	51	0.76	0.088	13
STD DS9	Standard			14.1	109.1	128.8	305	1.7	42.4	8.1	612	2.44	25.0	108.6	6.8	69	2.1	5.1	6.4	55	0.74	0.080	14
STD DS9	Standard			12.3	94.5	119.1	272	1.8	34.7	6.7	546	2.13	24.4	107.3	5.2	66	2.2	4.8	5.5	39	0.65	0.075	12
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
 Report Date: November 01, 2012

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QUALITY CONTROL REPORT

SMI12000506.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992214	Soil	22	0.29	328	0.037	2	1.74	0.009	0.08	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
REP 992214	QC	22	0.30	314	0.037	3	1.68	0.010	0.08	0.1	0.02	3.7	<0.1	<0.05	7	<0.5	<0.2
992230	Soil	19	0.39	156	0.050	2	1.13	0.008	0.07	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
REP 992230	QC	20	0.39	156	0.049	2	1.16	0.007	0.07	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
992250	Soil	13	0.23	233	0.025	<1	0.70	0.005	0.06	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
REP 992250	QC	13	0.23	233	0.027	2	0.69	0.005	0.06	0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
992404	Soil	18	0.43	124	0.028	1	1.39	0.005	0.05	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
REP 992404	QC	19	0.40	124	0.028	2	1.36	0.006	0.05	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
992425	Soil	14	0.20	137	0.028	1	0.74	0.006	0.05	0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
REP 992425	QC	14	0.20	137	0.029	1	0.74	0.006	0.05	0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
992441	Soil	23	0.35	128	0.017	<1	2.20	0.005	0.04	0.1	0.04	3.5	<0.1	<0.05	7	<0.5	<0.2
REP 992441	QC	24	0.36	131	0.017	<1	2.21	0.005	0.04	<0.1	0.05	3.6	<0.1	<0.05	7	<0.5	<0.2
992506	Soil	19	0.34	161	0.033	2	0.95	0.006	0.07	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 992506	QC	20	0.35	163	0.035	3	0.97	0.006	0.07	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
992541	Soil	14	0.23	186	0.030	1	0.68	0.005	0.07	0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 992541	QC	14	0.23	186	0.030	1	0.70	0.005	0.07	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	122	0.62	309	0.116	3	0.95	0.092	0.44	3.1	0.22	2.7	5.7	0.14	4	5.3	4.9
STD DS9	Standard	129	0.66	302	0.116	3	0.96	0.094	0.39	3.1	0.24	2.9	5.7	0.22	5	5.3	5.1
STD DS9	Standard	130	0.67	294	0.116	3	0.96	0.098	0.40	3.0	0.20	3.2	5.7	0.21	5	5.5	4.8
STD DS9	Standard	105	0.54	294	0.093	<1	0.88	0.082	0.36	3.1	0.22	2.4	5.4	0.05	4	4.8	4.9
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 25, 2012

Report Date: November 07, 2012

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# CERTIFICATE OF ANALYSIS

# SMI12000515.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-08\_201202  
P.O. Number: QZM-ZNT-08  
Number of Samples: 297

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	296	Dry at 60C			SMI
SS80	296	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	296	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

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

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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



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 Report Date: November 07, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000515.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
992251	Soil	1.1	18.1	10.8	238	0.4	16.8	7.6	1048	2.50	8.8	0.8	0.3	33	1.7	0.4	<0.1	46	0.81	0.050	5
992252	Soil	0.9	23.5	11.5	217	0.4	23.6	10.3	1182	3.23	10.6	1.3	0.6	26	0.8	0.4	0.1	63	0.54	0.047	8
992253	Soil	1.1	29.2	11.6	347	1.2	24.4	11.3	2211	3.14	9.2	<0.5	0.4	49	3.1	0.4	0.2	66	0.90	0.063	10
992254	Soil	2.8	11.0	28.6	352	0.6	17.1	8.4	887	3.58	21.1	1.3	0.5	18	0.8	0.6	0.1	60	0.34	0.060	4
992255	Soil	1.2	12.5	9.5	200	0.2	15.6	8.4	730	3.01	9.3	<0.5	0.3	19	0.8	0.4	0.1	60	0.33	0.047	4
992256	Soil	0.8	18.8	9.6	140	0.3	22.2	9.7	872	3.26	11.4	0.5	0.7	26	0.5	0.4	<0.1	75	0.49	0.050	7
992257	Soil	1.4	13.9	18.3	407	0.5	11.6	9.2	1364	3.44	16.4	2.1	0.3	25	2.0	0.3	0.2	70	0.48	0.105	5
992258	Soil	1.5	23.5	11.5	176	0.3	22.1	11.7	1153	3.58	16.6	<0.5	0.7	20	0.5	0.4	0.2	79	0.35	0.056	7
992259	Soil	1.1	16.1	11.0	231	0.1	23.1	10.8	999	3.61	15.1	0.6	0.3	20	0.9	0.4	0.1	80	0.40	0.093	4
992260	Soil	1.2	22.5	12.3	217	0.3	23.2	10.4	1029	3.55	18.9	1.3	0.3	25	0.8	0.5	0.1	78	0.53	0.054	5
992261	Soil	1.0	30.4	12.1	160	0.3	25.5	11.2	1132	3.82	16.4	0.9	1.0	26	0.6	0.5	<0.1	81	0.42	0.062	8
992263	Soil	0.6	9.5	7.6	235	<0.1	13.2	7.2	849	2.55	4.6	<0.5	0.3	18	0.6	0.2	<0.1	57	0.23	0.051	4
992264	Soil	0.9	14.4	7.2	174	<0.1	20.4	8.7	592	2.94	15.4	<0.5	0.4	25	0.7	0.3	<0.1	67	0.47	0.047	7
992265	Soil	0.8	28.3	8.3	221	0.3	29.6	11.1	1501	3.39	8.9	1.0	0.5	36	0.5	0.3	0.1	77	0.45	0.067	10
992266	Soil	0.7	11.3	6.0	96	<0.1	17.4	7.9	732	2.74	7.3	0.7	0.5	17	0.4	0.3	0.1	60	0.22	0.028	5
992267	Soil	0.5	10.3	11.1	311	0.1	14.3	9.7	3018	3.17	11.2	3.0	0.1	29	1.5	0.2	0.2	73	0.64	0.213	5
992268	Soil	1.0	21.5	13.4	182	0.1	20.6	12.1	1810	4.20	19.3	<0.5	0.2	25	0.8	0.3	0.1	83	0.59	0.136	8
992269	Soil	0.7	14.3	7.2	122	0.1	20.0	8.5	806	2.99	8.5	1.0	0.3	29	0.6	0.3	<0.1	70	0.64	0.102	5
992270	Soil	1.0	41.2	11.8	410	0.2	18.4	13.6	3708	3.02	6.4	<0.5	0.2	56	2.5	0.2	0.2	61	0.85	0.189	6
992271	Soil	0.8	79.3	11.9	175	0.9	36.0	10.7	1319	3.98	19.3	0.9	0.5	57	2.0	0.5	0.2	97	1.37	0.078	12
992272	Soil	0.5	29.1	8.8	240	0.3	20.9	9.5	1434	3.01	8.9	1.0	0.5	46	1.2	0.2	0.1	61	1.12	0.059	8
992273	Soil	0.7	19.5	8.0	116	0.1	22.3	9.2	700	2.99	11.0	1.4	0.6	28	0.3	0.3	<0.1	78	0.54	0.048	8
992274	Soil	0.8	20.8	11.2	81	<0.1	23.4	11.1	872	3.44	15.5	1.6	1.0	32	0.1	0.4	<0.1	85	0.47	0.049	8
992275	Soil	0.6	22.6	9.6	156	0.2	24.5	10.7	1389	3.08	15.2	<0.5	0.4	33	0.8	0.3	0.1	74	0.51	0.084	10
992276	Soil	0.6	29.3	9.6	244	0.2	27.0	13.5	2588	3.31	8.9	<0.5	0.3	50	1.4	0.3	0.1	83	0.63	0.086	7
992277	Soil	0.8	19.9	9.6	128	0.1	23.2	10.7	1109	3.35	25.2	0.9	0.3	34	0.7	0.3	0.1	81	0.44	0.066	6
992278	Soil	0.8	71.3	12.4	359	0.6	59.3	15.5	2737	4.13	16.2	<0.5	0.7	75	1.4	0.3	0.1	91	1.00	0.158	25
992279	Soil	1.0	37.2	11.0	205	0.2	38.5	13.0	1131	4.03	23.4	0.6	0.5	73	0.7	0.3	0.1	96	0.89	0.106	10
992280	Soil	0.9	77.8	9.4	147	0.6	58.7	11.4	859	4.36	30.1	1.4	1.1	85	1.1	0.5	0.2	94	1.67	0.099	24
992281	Soil	0.7	26.3	8.3	99	0.1	25.3	10.9	776	3.35	17.6	<0.5	0.7	51	0.5	0.4	0.1	84	0.73	0.058	9

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Project: ZNT  
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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992251	Soil	18	0.38	221	0.027	5	1.06	0.007	0.10	0.1	0.07	3.5	<0.1	0.09	4	<0.5	<0.2
992252	Soil	26	0.51	194	0.033	2	1.47	0.009	0.07	0.2	0.06	5.6	<0.1	0.05	5	<0.5	<0.2
992253	Soil	27	0.47	392	0.025	2	1.72	0.009	0.09	0.1	0.05	5.5	<0.1	0.09	5	<0.5	<0.2
992254	Soil	22	0.36	423	0.029	1	1.28	0.006	0.07	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
992255	Soil	21	0.36	148	0.033	2	1.12	0.006	0.06	0.2	0.03	3.0	<0.1	0.06	5	<0.5	<0.2
992256	Soil	26	0.53	145	0.044	2	1.34	0.011	0.06	0.1	0.05	4.9	<0.1	0.07	4	<0.5	<0.2
992257	Soil	21	0.29	494	0.031	2	1.26	0.006	0.10	0.2	0.03	3.3	<0.1	0.07	6	<0.5	<0.2
992258	Soil	25	0.46	248	0.035	2	1.64	0.007	0.07	0.1	0.05	5.3	0.1	0.06	6	<0.5	<0.2
992259	Soil	27	0.55	186	0.035	2	1.57	0.008	0.07	0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
992260	Soil	27	0.55	165	0.032	3	1.49	0.008	0.09	0.1	0.05	4.2	<0.1	0.09	5	<0.5	<0.2
992261	Soil	27	0.60	157	0.046	2	1.42	0.013	0.07	0.1	0.07	7.0	<0.1	0.06	5	<0.5	<0.2
992263	Soil	20	0.36	163	0.042	2	1.02	0.007	0.05	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
992264	Soil	24	0.48	162	0.038	2	1.46	0.009	0.06	0.1	0.03	4.3	<0.1	0.09	5	<0.5	<0.2
992265	Soil	33	0.59	227	0.020	1	2.26	0.011	0.09	0.1	0.05	5.9	<0.1	0.11	7	<0.5	<0.2
992266	Soil	23	0.39	134	0.040	1	1.20	0.007	0.06	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
992267	Soil	22	0.29	379	0.031	2	1.64	0.007	0.09	0.1	0.02	2.5	0.1	0.10	7	<0.5	<0.2
992268	Soil	26	0.47	200	0.017	2	1.98	0.007	0.08	0.1	0.04	4.7	<0.1	0.10	6	<0.5	<0.2
992269	Soil	24	0.47	152	0.043	3	1.32	0.007	0.09	0.1	0.02	3.2	<0.1	0.11	5	<0.5	<0.2
992270	Soil	24	0.31	786	0.039	4	1.27	0.006	0.14	0.2	0.04	3.8	<0.1	0.12	6	<0.5	<0.2
992271	Soil	33	0.56	416	0.030	3	2.05	0.015	0.07	0.2	0.08	8.8	0.1	0.15	6	0.7	<0.2
992272	Soil	23	0.45	231	0.026	4	1.63	0.013	0.05	0.1	0.07	5.6	<0.1	0.15	5	<0.5	<0.2
992273	Soil	27	0.53	150	0.048	2	1.44	0.011	0.06	0.1	0.04	5.3	<0.1	0.09	5	<0.5	<0.2
992274	Soil	29	0.57	122	0.073	2	1.41	0.012	0.07	0.1	0.04	6.2	<0.1	0.07	5	<0.5	<0.2
992275	Soil	28	0.46	235	0.042	2	1.50	0.009	0.06	<0.1	0.03	4.9	<0.1	0.07	5	<0.5	<0.2
992276	Soil	29	0.50	329	0.049	3	1.68	0.009	0.13	<0.1	0.02	4.3	<0.1	0.10	6	<0.5	<0.2
992277	Soil	28	0.50	208	0.042	2	1.42	0.008	0.08	0.1	0.02	3.8	<0.1	0.09	6	<0.5	<0.2
992278	Soil	42	0.85	572	0.018	2	3.49	0.014	0.19	0.1	0.04	10.5	<0.1	0.16	9	<0.5	<0.2
992279	Soil	41	0.91	250	0.022	2	2.75	0.016	0.14	0.1	0.05	8.8	<0.1	0.16	7	<0.5	<0.2
992280	Soil	45	0.85	516	0.012	3	3.26	0.018	0.16	0.1	0.08	17.0	0.1	0.21	8	<0.5	<0.2
992281	Soil	30	0.55	197	0.031	2	1.76	0.014	0.09	0.1	0.04	7.9	<0.1	0.10	6	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992282	Soil	0.6	28.5	6.7	81	0.1	24.8	10.2	520	3.02	13.4	0.9	0.6	29	0.5	0.3	<0.1	80	0.37	0.029	7
992283	Soil	0.6	22.8	6.3	66	0.1	25.7	8.2	510	3.07	11.8	0.6	0.5	37	0.3	0.3	<0.1	79	0.47	0.046	7
992284	Soil	0.8	23.0	6.9	110	0.1	25.9	10.2	836	3.28	15.1	0.6	0.3	34	0.3	0.4	<0.1	83	0.44	0.048	9
992285	Soil	1.1	51.1	14.2	238	0.4	39.2	15.1	3122	3.62	14.8	<0.5	0.2	85	1.8	0.3	0.2	89	1.20	0.141	19
992286	Soil	0.7	37.8	8.9	127	0.2	34.3	12.3	1579	3.51	12.1	0.7	0.5	54	0.5	0.4	0.1	86	0.78	0.073	12
992287	Soil	0.7	16.6	7.3	133	0.1	22.2	9.9	886	3.23	12.4	2.3	0.6	27	0.4	0.4	0.1	79	0.42	0.041	7
992288	Soil	0.7	15.8	7.9	155	0.1	17.5	8.5	1773	2.47	7.2	1.8	0.3	34	0.9	0.3	0.1	43	0.51	0.070	8
992289	Soil	0.6	10.9	6.2	66	<0.1	15.9	7.0	362	2.67	7.8	0.7	0.6	18	0.2	0.3	0.1	52	0.29	0.025	5
992290	Soil	0.7	22.1	12.8	211	0.2	17.9	10.1	1665	2.75	7.3	0.7	0.3	36	1.4	0.3	0.2	51	0.80	0.065	6
992291	Soil	0.6	8.3	8.2	154	<0.1	15.8	8.5	993	3.06	9.5	<0.5	0.4	22	0.3	0.3	0.1	64	0.33	0.061	4
992292	Soil	0.7	40.8	8.4	113	0.4	31.6	9.7	912	3.40	15.0	<0.5	0.6	60	0.8	0.5	0.1	62	1.39	0.072	9
992293	Soil	0.6	20.1	7.2	141	0.2	17.3	8.3	510	2.62	6.5	<0.5	0.5	23	0.9	0.2	0.1	54	0.32	0.031	5
992294	Soil	0.6	14.0	6.7	202	0.2	16.0	7.5	1549	2.63	7.0	<0.5	0.3	35	1.5	0.3	0.1	54	0.70	0.081	4
992295	Soil	1.0	9.9	10.2	186	0.1	9.2	7.9	1385	2.88	6.1	<0.5	0.2	27	1.1	0.3	0.2	64	0.46	0.079	4
992296	Soil	0.8	13.7	8.7	142	0.1	20.1	9.1	972	3.20	16.4	<0.5	0.5	20	0.5	0.4	<0.1	68	0.34	0.052	6
992297	Soil	1.7	18.0	12.7	373	0.3	10.2	19.4	4683	7.33	16.7	<0.5	0.3	22	2.1	0.2	0.2	172	0.73	0.195	4
992298	Soil	1.1	25.1	21.7	279	0.4	22.2	13.5	2292	3.82	22.8	0.9	0.5	32	1.3	0.5	0.1	70	0.55	0.111	8
992299	Soil	1.1	14.7	17.6	644	0.6	12.1	12.3	2971	4.05	11.5	1.6	0.3	28	3.5	0.3	0.2	76	0.52	0.189	5
992314	Soil	0.9	12.0	9.0	394	0.5	15.6	8.2	1930	2.88	11.2	<0.5	0.2	31	2.5	0.3	0.1	64	0.62	0.076	4
992315	Soil	1.0	11.3	8.9	206	0.3	15.7	8.6	900	3.68	14.9	<0.5	0.1	24	0.6	0.3	0.1	78	0.59	0.066	5
992316	Soil	0.9	25.8	14.4	284	0.9	19.9	10.7	2033	3.92	13.2	0.7	0.5	19	0.8	0.3	0.2	84	0.82	0.058	19
992317	Soil	0.8	21.2	11.4	223	0.4	23.5	9.8	715	3.49	17.0	2.4	0.9	20	0.3	0.5	<0.1	74	0.40	0.037	8
992318	Soil	2.0	17.5	22.9	259	0.5	19.4	9.9	1264	3.34	27.6	<0.5	0.5	20	0.6	0.5	0.1	69	0.55	0.031	5
992319	Soil	1.0	15.9	14.6	232	0.3	15.6	10.9	1610	3.36	13.2	<0.5	0.2	21	0.9	0.3	0.1	71	0.49	0.077	5
992320	Soil	1.0	29.0	10.8	364	0.5	22.5	11.2	2075	3.23	17.3	<0.5	0.2	34	2.9	0.3	0.1	70	0.86	0.082	5
992321	Soil	0.9	10.1	10.3	236	0.2	14.5	8.7	1294	3.21	9.2	1.9	0.5	14	1.0	0.3	0.1	68	0.32	0.051	4
992322	Soil	0.7	9.4	6.2	166	0.1	16.7	6.9	442	2.96	9.9	<0.5	0.6	15	0.3	0.3	<0.1	66	0.23	0.029	4
992323	Soil	1.0	22.6	13.1	536	0.9	14.0	8.5	2116	2.91	11.3	<0.5	0.2	28	3.9	0.3	0.2	58	0.98	0.058	7
992324	Soil	0.9	17.6	11.7	358	0.5	18.4	9.3	1295	3.43	17.8	<0.5	0.6	19	1.1	0.3	0.1	73	0.46	0.036	7
992325	Soil	1.2	15.3	15.8	357	0.3	15.5	7.9	1239	3.15	16.5	<0.5	0.3	24	1.5	0.3	0.1	69	0.55	0.051	5

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992282	Soil	28	0.48	144	0.051	2	1.34	0.011	0.08	<0.1	0.02	5.3	<0.1	0.09	5	<0.5	<0.2
992283	Soil	29	0.62	125	0.043	2	1.52	0.013	0.07	0.1	0.03	5.8	<0.1	0.10	5	<0.5	<0.2
992284	Soil	30	0.56	161	0.039	1	1.56	0.011	0.07	<0.1	0.03	5.1	<0.1	0.12	5	<0.5	<0.2
992285	Soil	35	0.59	489	0.017	3	2.42	0.010	0.18	0.2	0.05	5.1	<0.1	0.19	7	<0.5	<0.2
992286	Soil	33	0.66	230	0.034	2	1.91	0.011	0.11	0.1	0.04	7.1	<0.1	0.16	6	<0.5	<0.2
992287	Soil	27	0.52	170	0.058	2	1.37	0.010	0.08	0.1	0.03	4.4	<0.1	0.09	5	<0.5	<0.2
992288	Soil	16	0.33	254	0.034	2	1.10	0.007	0.07	0.1	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
992289	Soil	18	0.40	112	0.044	2	1.19	0.009	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
992290	Soil	19	0.35	248	0.029	4	1.27	0.010	0.09	<0.1	0.03	3.9	<0.1	0.08	4	<0.5	<0.2
992291	Soil	20	0.35	192	0.038	2	1.27	0.008	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
992292	Soil	27	0.64	396	0.016	4	2.14	0.016	0.10	0.1	0.08	9.3	0.1	0.13	6	0.7	<0.2
992293	Soil	20	0.34	182	0.033	3	1.18	0.009	0.09	<0.1	0.02	3.8	<0.1	0.06	4	<0.5	<0.2
992294	Soil	18	0.38	244	0.037	3	1.05	0.007	0.10	0.1	0.03	3.2	<0.1	0.08	4	<0.5	<0.2
992295	Soil	16	0.23	239	0.038	3	0.80	0.007	0.12	0.2	0.04	2.6	<0.1	0.07	4	<0.5	<0.2
992296	Soil	22	0.48	195	0.039	2	1.40	0.008	0.07	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
992297	Soil	14	0.53	425	0.022	3	2.01	0.005	0.09	0.2	0.05	9.3	<0.1	0.06	11	<0.5	<0.2
992298	Soil	21	0.51	317	0.039	3	1.50	0.011	0.10	0.1	0.05	6.6	0.1	0.06	5	<0.5	<0.2
992299	Soil	22	0.35	433	0.043	3	1.34	0.008	0.10	0.2	0.03	4.1	<0.1	0.06	7	<0.5	<0.2
992314	Soil	18	0.36	278	0.031	3	1.11	0.007	0.09	0.1	0.03	2.7	<0.1	0.07	5	<0.5	<0.2
992315	Soil	23	0.38	244	0.026	2	1.73	0.007	0.09	0.1	0.02	2.7	<0.1	0.06	7	<0.5	<0.2
992316	Soil	26	0.35	715	0.017	1	2.24	0.009	0.08	0.1	0.05	7.0	<0.1	0.09	7	<0.5	<0.2
992317	Soil	25	0.58	164	0.046	2	1.49	0.008	0.09	0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
992318	Soil	22	0.48	228	0.029	2	1.42	0.008	0.08	0.1	0.04	4.5	<0.1	0.08	5	<0.5	<0.2
992319	Soil	22	0.36	198	0.026	3	1.30	0.007	0.08	0.1	0.03	3.1	<0.1	0.07	5	<0.5	<0.2
992320	Soil	22	0.40	288	0.028	4	1.42	0.007	0.11	0.1	0.04	3.3	<0.1	0.11	5	<0.5	<0.2
992321	Soil	19	0.38	149	0.048	2	1.12	0.007	0.06	0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
992322	Soil	19	0.42	143	0.037	1	1.25	0.007	0.04	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
992323	Soil	17	0.32	464	0.032	4	1.16	0.007	0.09	0.1	0.06	3.3	<0.1	0.11	5	<0.5	<0.2
992324	Soil	22	0.42	361	0.032	2	1.71	0.009	0.07	0.1	0.03	5.6	<0.1	0.06	6	<0.5	<0.2
992325	Soil	20	0.38	224	0.029	3	1.23	0.007	0.09	0.1	0.03	3.7	<0.1	0.07	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992326	Soil		0.9	18.6	10.8	271	0.4	19.7	9.4	1387	3.27	13.3	<0.5	0.5	29	1.1	0.3	0.1	71	0.52	0.042	6
992327	Soil		1.0	9.8	7.8	258	0.1	17.2	8.1	867	3.16	10.4	<0.5	0.6	18	0.9	0.3	0.1	71	0.35	0.030	4
992328	Soil		0.8	14.9	7.0	126	0.2	21.5	8.6	626	3.18	11.7	<0.5	0.7	21	0.3	0.4	<0.1	68	0.31	0.040	5
992329	Soil		0.9	27.1	12.9	135	0.4	26.5	12.6	1400	3.75	22.8	1.1	0.9	38	0.5	0.5	<0.1	76	0.64	0.053	9
992330	Soil		1.0	33.7	9.2	105	0.4	28.4	10.2	757	3.47	15.2	<0.5	0.6	45	1.2	0.4	0.1	77	0.95	0.038	7
992331	Soil		0.9	30.1	12.1	219	0.6	27.5	12.3	1475	4.12	19.8	0.5	0.9	37	1.1	0.5	0.1	84	0.76	0.045	8
992332 NS	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.
992333	Soil		0.6	84.7	10.2	85	0.9	39.3	10.1	832	3.38	13.8	<0.5	0.9	55	2.1	0.3	0.2	73	1.45	0.049	7
992334	Soil		0.7	13.1	6.8	79	<0.1	19.0	8.3	594	2.93	10.6	1.0	0.4	21	0.1	0.3	<0.1	70	0.27	0.029	5
992335	Soil		0.6	11.4	6.5	152	<0.1	17.2	7.6	921	2.83	6.9	<0.5	0.3	22	0.5	0.3	<0.1	62	0.27	0.060	5
992336	Soil		0.6	10.7	7.2	133	<0.1	19.6	7.3	372	3.38	10.2	<0.5	0.4	20	0.2	0.3	0.1	76	0.27	0.146	5
992337	Soil		1.1	10.1	8.4	143	<0.1	13.2	8.3	1432	2.71	6.5	<0.5	0.2	30	0.5	0.2	0.1	72	0.41	0.044	5
992338	Soil		0.6	15.3	7.6	83	0.1	16.9	8.5	946	2.74	7.7	<0.5	0.5	23	0.3	0.3	<0.1	64	0.33	0.026	8
992339	Soil		0.5	60.7	11.1	143	0.4	34.2	11.2	1157	3.21	9.9	1.2	1.1	66	1.0	0.6	0.1	61	0.92	0.056	25
992340	Soil		0.5	21.8	8.6	89	0.2	21.6	8.5	571	2.70	9.1	<0.5	0.7	32	0.3	0.4	<0.1	59	0.33	0.036	9
992341	Soil		0.7	26.6	8.3	123	0.1	21.8	9.3	554	2.85	11.0	1.9	0.8	29	0.8	0.5	0.1	65	0.42	0.054	8
992342	Soil		0.7	67.3	13.0	140	0.4	50.7	13.9	958	4.55	23.8	0.8	1.5	64	1.2	0.7	0.2	84	1.24	0.070	19
992343	Soil		0.6	48.0	9.7	184	0.3	35.1	14.0	822	3.65	13.5	<0.5	1.0	47	1.0	0.6	0.2	73	0.81	0.071	10
992344	Soil		0.6	14.8	7.8	83	<0.1	16.4	9.1	368	2.86	12.6	0.9	0.6	23	0.3	0.4	0.1	71	0.29	0.038	5
992345	Soil		0.8	79.6	12.7	193	0.6	51.1	13.0	905	4.35	21.1	1.6	1.4	77	1.5	0.8	0.2	79	1.48	0.104	20
992346	Soil		0.7	91.7	14.7	211	0.8	62.3	15.6	1111	5.05	41.6	1.1	1.8	68	1.4	0.6	0.2	93	1.00	0.092	25
992347	Soil		0.7	30.0	11.6	176	0.1	31.4	14.2	1780	3.44	12.5	<0.5	0.5	44	0.7	0.4	0.1	78	0.55	0.096	11
992348	Soil		0.9	64.3	12.3	175	0.3	40.0	14.8	1675	3.33	20.3	0.6	0.6	61	1.1	0.4	0.1	74	0.76	0.084	39
992349	Soil		0.9	21.6	29.7	717	0.2	20.8	11.5	1156	3.61	384.6	1.2	0.3	53	3.2	0.5	0.1	75	0.75	0.132	6
992543	Soil		1.0	16.0	10.8	316	0.4	15.0	9.2	2362	2.40	8.1	0.5	0.1	44	5.4	0.4	0.1	58	0.90	0.074	4
992544	Soil		1.2	16.3	14.5	355	0.6	16.6	10.2	1212	3.26	17.1	0.9	0.2	23	1.4	0.5	0.1	75	0.47	0.071	5
992545	Soil		3.4	99.9	38.3	423	3.1	22.1	18.9	3052	3.36	46.4	1.9	0.6	16	3.1	1.3	0.1	76	0.60	0.061	10
992546	Soil		0.9	30.1	11.1	333	0.9	25.6	13.4	2387	2.49	7.3	1.0	0.4	45	3.3	0.3	0.1	61	1.16	0.074	9
992547	Soil		0.8	11.8	11.3	260	0.3	15.2	8.1	500	3.24	9.4	1.2	0.3	13	0.7	0.4	0.1	75	0.21	0.120	5
992548	Soil		0.7	12.6	9.9	312	0.2	15.8	8.9	655	3.10	9.0	0.8	0.5	21	1.1	0.4	0.1	69	0.37	0.113	5

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992326	Soil	24	0.46	274	0.033	2	1.52	0.009	0.07	0.1	0.04	5.9	<0.1	0.06	5	<0.5	<0.2
992327	Soil	21	0.42	204	0.046	2	1.44	0.008	0.06	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
992328	Soil	22	0.50	134	0.051	2	1.29	0.010	0.05	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
992329	Soil	26	0.61	231	0.038	3	1.65	0.018	0.08	0.1	0.07	8.5	<0.1	0.08	5	<0.5	<0.2
992330	Soil	26	0.52	240	0.028	2	1.80	0.013	0.08	0.1	0.04	6.8	<0.1	0.11	5	<0.5	<0.2
992331	Soil	30	0.58	407	0.029	2	2.07	0.016	0.08	0.1	0.06	9.5	<0.1	0.10	6	<0.5	<0.2
992332 NS	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.
992333	Soil	30	0.59	433	0.027	2	2.17	0.014	0.08	0.1	0.04	11.0	<0.1	0.16	6	0.8	<0.2
992334	Soil	22	0.47	102	0.045	1	1.29	0.008	0.05	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
992335	Soil	20	0.44	170	0.047	2	1.19	0.008	0.06	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992336	Soil	23	0.44	115	0.033	1	1.68	0.008	0.04	0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
992337	Soil	19	0.35	147	0.032	2	1.19	0.007	0.09	0.1	0.04	2.7	<0.1	0.06	5	<0.5	<0.2
992338	Soil	21	0.38	140	0.040	1	1.24	0.009	0.05	<0.1	0.02	3.8	<0.1	0.06	4	<0.5	<0.2
992339	Soil	31	0.56	387	0.016	2	1.97	0.010	0.10	0.2	0.09	10.9	0.1	<0.05	5	<0.5	<0.2
992340	Soil	24	0.49	178	0.036	2	1.45	0.010	0.07	0.1	0.03	6.2	<0.1	<0.05	4	<0.5	<0.2
992341	Soil	22	0.41	223	0.047	2	1.25	0.008	0.09	0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
992342	Soil	45	0.81	535	0.010	2	3.13	0.014	0.16	<0.1	0.07	17.0	0.2	0.11	8	<0.5	<0.2
992343	Soil	31	0.64	331	0.023	3	2.12	0.014	0.14	0.1	0.02	7.8	<0.1	0.09	6	<0.5	<0.2
992344	Soil	22	0.33	148	0.048	2	1.05	0.008	0.09	<0.1	0.01	3.3	<0.1	0.07	4	<0.5	<0.2
992345	Soil	45	0.80	545	0.011	4	3.02	0.018	0.17	0.1	0.09	17.5	0.2	0.13	7	<0.5	<0.2
992346	Soil	52	0.91	568	0.010	3	4.17	0.020	0.22	<0.1	0.07	19.3	0.1	0.12	9	<0.5	<0.2
992347	Soil	30	0.52	306	0.038	4	1.94	0.010	0.14	0.1	0.02	6.0	<0.1	0.10	6	<0.5	<0.2
992348	Soil	34	0.62	358	0.020	2	2.43	0.009	0.12	0.1	0.06	9.6	<0.1	0.12	6	<0.5	<0.2
992349	Soil	27	0.44	209	0.029	2	1.75	0.007	0.08	0.1	0.03	3.5	0.1	0.09	6	<0.5	<0.2
992543	Soil	17	0.32	347	0.026	4	1.10	0.006	0.09	0.2	0.07	2.1	<0.1	0.13	4	<0.5	<0.2
992544	Soil	21	0.43	250	0.025	3	1.39	0.006	0.12	0.1	0.03	3.4	<0.1	0.07	6	<0.5	<0.2
992545	Soil	28	0.36	345	0.022	2	1.66	0.008	0.06	0.1	0.11	8.3	0.4	0.08	5	<0.5	<0.2
992546	Soil	25	0.56	420	0.018	2	1.90	0.008	0.08	0.1	0.06	6.0	<0.1	0.14	6	<0.5	<0.2
992547	Soil	22	0.38	172	0.023	2	1.52	0.006	0.06	0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
992548	Soil	22	0.40	238	0.029	1	1.49	0.007	0.06	0.2	0.02	3.5	<0.1	0.06	6	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
992550	Soil		0.7	24.5	10.7	341	0.3	26.2	11.8	2044	3.22	8.7	0.9	0.7	27	2.1	0.4	0.1	73	0.47	0.053	11	
992551	Soil		1.6	79.5	39.5	557	0.5	48.5	18.9	3808	4.44	18.1	0.7	1.0	78	2.6	0.3	0.2	94	1.18	0.126	27	
992552	Soil		0.8	12.4	8.9	164	0.1	17.2	10.6	1601	2.80	8.5	0.9	0.4	29	0.5	0.4	0.4	72	0.36	0.038	5	
992553	Soil		0.9	21.6	12.4	251	<0.1	18.4	10.8	1624	3.17	14.3	<0.5	0.4	30	1.4	0.5	0.1	72	0.57	0.071	5	
992554	Soil		0.6	42.4	9.9	562	0.2	20.5	13.1	4802	3.49	14.1	<0.5	0.4	39	2.4	0.5	0.1	72	0.92	0.098	7	
992555	Soil		0.6	20.1	9.7	64	<0.1	22.6	9.2	490	3.27	12.6	<0.5	0.8	24	0.1	0.6	0.1	76	0.28	0.041	6	
992556	Soil		0.5	8.9	7.6	78	<0.1	10.9	5.5	333	2.23	5.7	0.8	0.5	14	<0.1	0.3	0.1	62	0.13	0.025	5	
992557	Soil		0.6	9.1	5.8	90	<0.1	14.6	6.0	353	2.46	4.8	<0.5	0.4	15	0.1	0.3	<0.1	60	0.16	0.023	5	
992558	Soil		0.5	20.4	10.1	116	0.2	12.4	8.5	973	2.13	4.7	0.6	0.4	21	0.4	0.3	0.1	56	0.23	0.027	11	
992559	Soil		1.3	137.3	11.2	242	2.1	59.1	14.1	762	4.27	12.0	1.5	1.4	82	3.2	0.8	0.2	100	1.96	0.085	24	
992560	Soil		1.0	28.3	13.0	220	0.5	25.6	11.3	951	3.41	15.3	2.5	0.9	35	0.7	0.5	0.1	77	0.71	0.048	8	
992561	Soil		0.6	41.3	10.9	98	0.4	29.4	12.3	816	3.70	15.3	1.6	1.3	37	0.3	0.7	0.1	78	0.67	0.045	10	
992562	Soil		1.3	14.0	31.0	357	0.3	16.8	11.1	828	3.51	13.8	0.7	0.5	23	1.9	0.4	0.2	84	0.59	0.073	6	
992563	Soil		1.2	11.2	15.7	364	0.5	8.7	8.8	871	2.99	9.4	1.3	0.5	18	2.3	0.5	0.1	69	0.31	0.045	5	
992564	Soil		0.7	29.6	13.2	264	0.7	23.2	10.5	844	3.37	16.9	1.6	1.0	28	0.9	0.6	<0.1	70	0.43	0.045	13	
992565	Soil		0.9	24.8	12.4	140	0.2	24.3	15.7	2399	3.07	10.6	1.1	0.5	40	1.0	0.5	0.1	67	0.50	0.061	9	
992566	Soil		1.0	49.5	10.5	93	0.4	37.1	11.8	924	3.57	11.5	0.8	0.8	55	0.7	0.5	0.2	76	0.71	0.054	15	
992567	Soil		0.6	14.3	6.4	116	0.1	22.7	8.8	647	2.87	6.3	1.7	0.6	30	0.4	0.3	<0.1	65	0.36	0.060	6	
992568	Soil		0.7	18.4	9.5	166	0.2	20.3	10.7	1207	3.09	9.3	<0.5	0.5	27	0.6	0.4	<0.1	69	0.34	0.085	6	
992569	Soil		0.4	32.0	9.5	198	0.1	21.2	10.9	1294	2.82	8.5	3.0	0.6	39	1.6	0.4	0.2	52	0.37	0.068	6	
992570	Soil		0.4	28.7	10.2	183	0.2	27.9	11.2	1169	3.07	6.5	3.0	1.0	27	0.9	0.3	0.2	55	0.23	0.068	7	
992571	Soil		0.5	17.9	7.2	85	0.1	19.7	7.5	488	2.57	7.5	1.2	0.5	31	0.3	0.4	0.1	49	0.32	0.046	7	
992572	Soil		0.9	62.7	21.4	164	0.6	42.4	13.7	1384	3.90	11.4	3.1	1.2	61	0.6	0.5	0.2	65	0.77	0.077	15	
992573	Soil		0.7	77.2	12.6	180	1.1	52.7	12.8	1328	3.86	10.3	1.2	1.2	77	1.9	0.6	0.2	62	0.94	0.087	24	
992574	Soil		0.5	12.2	7.6	56	0.1	10.2	3.9	168	1.85	3.8	2.4	0.3	26	0.3	0.2	0.2	43	0.31	0.024	4	
992575	Soil		0.6	7.7	9.0	51	0.1	11.2	6.0	405	2.36	8.0	0.7	0.4	19	0.5	0.3	0.1	52	0.25	0.030	4	
992576	Soil		0.7	13.6	18.3	274	0.2	17.0	10.9	1759	3.40	10.1	0.5	0.5	22	1.2	0.4	0.1	61	0.29	0.204	5	
992577	Soil		0.9	14.4	18.0	239	0.3	16.2	11.3	1445	4.07	10.8	1.2	0.5	28	2.5	0.5	0.2	86	0.33	0.101	5	
992578	Soil		0.7	8.9	17.4	393	0.4	11.1	9.6	1740	2.89	5.2	0.6	0.3	40	2.6	0.3	0.2	54	0.53	0.127	5	
992579	Soil		0.9	15.2	15.3	176	0.1	16.7	9.3	1335	3.05	8.8	0.8	0.3	31	0.9	0.4	0.1	64	0.35	0.056	7	

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992550	Soil	29	0.44	292	0.028	2	1.88	0.008	0.09	0.1	0.03	5.8	<0.1	0.08	6	<0.5	<0.2
992551	Soil	43	0.76	625	0.011	2	3.56	0.009	0.19	0.1	0.07	11.0	0.2	0.13	10	<0.5	<0.2
992552	Soil	22	0.43	244	0.038	2	1.40	0.007	0.07	<0.1	0.03	3.1	<0.1	0.09	5	<0.5	<0.2
992553	Soil	22	0.42	306	0.037	3	1.30	0.010	0.06	0.1	0.02	3.8	<0.1	0.08	5	<0.5	<0.2
992554	Soil	22	0.47	695	0.029	4	1.61	0.008	0.07	<0.1	0.03	4.7	<0.1	0.11	6	<0.5	<0.2
992555	Soil	24	0.55	133	0.054	2	1.40	0.008	0.06	0.1	0.02	3.9	<0.1	0.10	5	<0.5	<0.2
992556	Soil	16	0.30	135	0.035	<1	1.02	0.007	0.03	<0.1	0.02	2.5	<0.1	0.07	5	<0.5	<0.2
992557	Soil	19	0.39	108	0.035	1	1.17	0.006	0.05	<0.1	0.03	2.7	<0.1	0.06	5	<0.5	<0.2
992558	Soil	18	0.26	270	0.025	1	1.28	0.008	0.06	0.1	0.02	3.5	<0.1	0.06	5	<0.5	<0.2
992559	Soil	43	0.73	755	0.014	3	3.53	0.015	0.11	0.2	0.10	15.9	0.2	0.30	10	0.8	<0.2
992560	Soil	29	0.59	267	0.036	3	1.69	0.013	0.09	0.1	0.06	7.6	0.1	0.09	5	<0.5	<0.2
992561	Soil	32	0.67	229	0.036	2	1.89	0.016	0.09	0.1	0.08	9.6	0.1	0.08	6	<0.5	<0.2
992562	Soil	24	0.39	297	0.023	2	2.02	0.009	0.06	0.1	0.04	4.0	0.1	0.10	7	<0.5	<0.2
992563	Soil	17	0.32	241	0.042	3	0.90	0.006	0.10	0.2	0.02	2.9	<0.1	0.08	5	<0.5	<0.2
992564	Soil	27	0.60	263	0.047	2	1.53	0.011	0.06	0.1	0.08	9.3	<0.1	0.08	5	<0.5	<0.2
992565	Soil	24	0.50	264	0.037	2	1.50	0.009	0.09	0.1	0.04	5.4	<0.1	0.08	5	<0.5	<0.2
992566	Soil	32	0.65	315	0.020	2	2.08	0.011	0.11	<0.1	0.05	9.6	0.1	0.10	6	<0.5	<0.2
992567	Soil	24	0.50	173	0.052	2	1.33	0.009	0.07	0.1	0.03	4.5	<0.1	0.08	4	<0.5	<0.2
992568	Soil	23	0.45	190	0.039	1	1.35	0.007	0.06	0.2	0.02	4.0	<0.1	0.07	5	<0.5	<0.2
992569	Soil	22	0.51	301	0.047	1	1.19	0.008	0.09	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
992570	Soil	26	0.37	205	0.036	2	1.93	0.020	0.14	0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
992571	Soil	20	0.53	155	0.040	2	1.21	0.008	0.08	<0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
992572	Soil	35	0.71	437	0.013	2	2.54	0.012	0.16	0.2	0.05	11.0	<0.1	0.05	7	<0.5	<0.2
992573	Soil	33	0.70	498	0.013	3	2.77	0.013	0.16	<0.1	0.05	10.5	<0.1	<0.05	7	1.1	<0.2
992574	Soil	12	0.21	143	0.035	2	0.68	0.006	0.04	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
992575	Soil	15	0.28	164	0.039	<1	0.78	0.006	0.06	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
992576	Soil	19	0.47	422	0.036	2	1.19	0.006	0.09	0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
992577	Soil	23	0.42	299	0.046	2	1.28	0.006	0.07	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
992578	Soil	17	0.36	369	0.034	3	1.03	0.005	0.12	0.2	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
992579	Soil	19	0.46	244	0.030	2	1.17	0.008	0.06	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
992580	Soil	0.7	17.1	19.3	136	0.2	21.3	12.2	903	3.08	12.0	<0.5	0.5	43	0.4	0.3	0.1	64	0.51	0.061	7
992581	Soil	1.0	25.3	15.7	183	0.2	19.0	10.7	1552	2.69	7.6	1.2	0.3	50	1.1	0.3	0.1	55	0.74	0.064	9
992582	Soil	1.4	62.1	28.5	478	0.4	24.0	12.0	1276	3.86	14.3	1.1	0.7	53	3.0	0.5	0.3	69	1.24	0.078	8
992583	Soil	1.3	98.0	28.3	255	0.7	31.9	13.1	1559	4.08	17.4	<0.5	0.5	74	4.5	0.6	0.2	71	1.04	0.105	30
992584	Soil	1.2	20.9	24.7	314	0.3	15.0	13.6	1887	3.82	13.3	15.7	0.4	41	1.8	0.4	0.2	77	0.62	0.128	4
992587	Soil	0.7	16.0	11.8	187	0.2	20.9	10.3	871	3.18	8.3	<0.5	0.4	34	0.9	0.5	0.1	60	0.44	0.091	5
992588	Soil	0.8	17.5	11.6	326	0.2	18.3	10.6	1550	3.00	5.8	<0.5	0.6	22	2.2	0.4	0.1	55	0.26	0.165	5
992589	Soil	0.7	19.1	17.3	307	0.3	17.8	9.7	638	3.44	10.3	<0.5	0.6	35	1.1	0.5	0.1	73	0.48	0.041	7
992590	Soil	1.2	32.8	35.9	307	0.5	23.2	14.4	1753	3.80	14.5	<0.5	0.8	48	1.8	0.5	0.2	73	0.70	0.091	11
992591	Soil	0.9	18.7	18.5	244	0.5	13.1	7.2	911	2.70	8.2	<0.5	0.4	31	1.6	0.4	0.1	58	0.55	0.066	11
992592	Soil	1.8	32.3	40.6	440	0.8	20.3	13.7	2627	3.75	15.8	<0.5	0.6	41	2.9	0.5	0.2	75	0.91	0.092	12
992593	Soil	1.2	40.9	32.6	712	0.7	24.5	12.6	3918	3.45	9.7	1.0	0.8	46	5.5	0.4	0.2	64	0.98	0.111	16
992594	Soil	1.3	14.0	21.2	317	0.2	13.6	9.3	1310	2.90	6.9	1.0	0.2	41	2.1	0.3	0.2	60	0.88	0.129	4
992595	Soil	0.9	15.6	16.0	181	0.2	20.0	11.6	814	3.57	10.3	0.8	0.3	32	1.3	0.4	0.1	74	0.44	0.060	4
992596	Soil	0.8	21.5	10.8	87	0.3	17.7	7.3	444	2.64	8.3	0.8	0.5	25	0.5	0.3	<0.1	53	0.26	0.026	8
992597	Soil	1.1	94.5	17.1	147	1.5	32.6	12.8	1467	3.90	12.4	1.7	0.9	54	2.0	0.6	0.2	65	0.61	0.062	14
992598	Soil	0.7	40.5	10.8	81	0.5	23.9	8.9	461	2.79	6.8	0.6	0.6	28	0.7	0.4	0.1	55	0.30	0.033	10
992599	Soil	0.8	74.6	11.4	130	1.1	40.5	9.7	900	3.16	7.0	0.6	0.6	91	1.9	0.6	0.2	51	1.11	0.089	20
992600	Soil	0.5	25.5	8.3	270	0.1	19.7	10.4	1526	2.57	6.5	1.3	0.3	35	2.3	0.4	0.1	54	0.40	0.045	5
992601	Soil	0.9	67.8	13.0	180	0.6	48.1	15.0	1622	3.64	8.2	<0.5	0.9	69	2.9	0.4	0.2	61	0.77	0.061	15
992602	Soil	0.5	46.1	9.9	155	0.4	35.0	10.9	791	3.15	7.8	1.9	1.0	41	1.1	0.4	0.1	58	0.49	0.048	13
992603	Soil	0.7	28.1	8.2	84	0.1	26.3	10.4	612	2.80	7.1	<0.5	0.8	38	0.3	0.3	0.1	54	0.40	0.038	10
992604	Soil	0.5	15.3	6.3	88	<0.1	20.1	8.6	430	2.53	6.3	0.6	0.7	22	0.2	0.3	<0.1	51	0.28	0.049	6
992605	Soil	0.6	16.9	8.3	154	<0.1	21.7	10.4	862	2.77	6.7	0.5	0.6	34	0.8	0.4	0.1	55	0.40	0.082	6
992606	Soil	0.8	61.3	11.8	167	0.6	55.0	14.7	1047	4.26	10.4	0.6	1.4	72	1.0	0.5	0.2	71	0.82	0.087	14
992607	Soil	0.6	26.5	10.5	99	0.2	25.2	8.8	697	2.97	10.0	4.0	0.9	42	0.4	0.5	0.1	55	0.41	0.059	9
992609	Soil	0.6	16.0	10.9	120	<0.1	18.9	9.3	659	2.91	8.8	0.6	0.7	43	0.9	0.5	0.1	58	0.40	0.069	5
992610	Soil	0.5	23.1	8.5	89	<0.1	22.7	9.6	603	2.92	8.6	0.9	1.0	45	0.3	0.5	0.1	55	0.44	0.056	9
992611	Soil	0.6	19.6	8.2	126	<0.1	22.9	10.0	816	2.96	7.9	<0.5	1.0	44	0.4	0.5	0.2	55	0.43	0.054	7
992612	Soil	0.4	11.6	6.8	70	0.1	14.6	5.4	312	1.92	3.8	<0.5	0.6	30	<0.1	0.2	0.2	39	0.30	0.058	7

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992580	Soil	24	0.58	226	0.037	2	1.57	0.008	0.09	0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
992581	Soil	20	0.48	387	0.022	2	1.47	0.009	0.07	0.1	0.06	4.5	<0.1	<0.05	5	<0.5	<0.2
992582	Soil	27	0.51	793	0.036	3	1.93	0.015	0.06	0.2	0.04	10.3	0.1	<0.05	6	0.6	<0.2
992583	Soil	30	0.51	777	0.023	1	2.07	0.010	0.08	0.2	0.08	12.8	<0.1	0.06	7	1.0	<0.2
992584	Soil	23	0.38	458	0.039	2	1.20	0.006	0.07	0.2	0.07	3.6	<0.1	<0.05	5	<0.5	<0.2
992587	Soil	22	0.51	179	0.035	3	1.27	0.007	0.08	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
992588	Soil	21	0.36	428	0.038	3	1.28	0.007	0.08	0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
992589	Soil	22	0.51	296	0.048	2	1.35	0.010	0.06	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
992590	Soil	26	0.55	507	0.029	2	1.83	0.011	0.08	0.1	0.05	8.6	0.2	<0.05	6	<0.5	<0.2
992591	Soil	17	0.34	377	0.036	2	1.12	0.010	0.05	0.2	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
992592	Soil	22	0.47	542	0.031	3	1.74	0.011	0.06	0.2	0.05	6.7	0.1	<0.05	6	<0.5	<0.2
992593	Soil	21	0.44	631	0.041	5	1.71	0.012	0.07	0.2	0.05	7.6	0.2	<0.05	6	<0.5	<0.2
992594	Soil	18	0.41	349	0.030	5	1.23	0.007	0.07	0.1	0.03	2.6	<0.1	0.05	5	<0.5	<0.2
992595	Soil	23	0.49	252	0.044	2	1.26	0.007	0.06	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992596	Soil	20	0.45	261	0.030	1	1.24	0.007	0.04	<0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
992597	Soil	29	0.51	519	0.020	<1	2.03	0.010	0.08	0.1	0.07	11.6	<0.1	<0.05	6	0.6	<0.2
992598	Soil	23	0.53	299	0.030	1	1.48	0.009	0.06	<0.1	0.03	6.5	<0.1	<0.05	5	<0.5	<0.2
992599	Soil	29	0.64	631	0.009	2	2.26	0.012	0.11	0.1	0.10	10.0	<0.1	0.08	6	0.7	<0.2
992600	Soil	19	0.42	325	0.050	2	1.02	0.007	0.06	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
992601	Soil	33	0.68	431	0.019	1	2.34	0.011	0.13	<0.1	0.03	8.3	<0.1	<0.05	7	<0.5	<0.2
992602	Soil	29	0.59	317	0.027	2	1.92	0.011	0.13	<0.1	0.02	8.2	<0.1	<0.05	6	<0.5	<0.2
992603	Soil	25	0.54	193	0.038	2	1.47	0.010	0.09	0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2
992604	Soil	20	0.48	113	0.055	<1	1.11	0.007	0.05	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
992605	Soil	23	0.53	200	0.052	3	1.19	0.008	0.06	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
992606	Soil	44	0.82	446	0.011	2	3.32	0.015	0.20	<0.1	0.05	12.3	<0.1	<0.05	8	<0.5	<0.2
992607	Soil	25	0.57	193	0.034	2	1.67	0.014	0.10	0.1	0.03	6.3	<0.1	<0.05	5	0.6	<0.2
992609	Soil	21	0.52	151	0.056	2	1.17	0.011	0.05	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
992610	Soil	23	0.54	151	0.054	2	1.44	0.016	0.08	<0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
992611	Soil	23	0.53	172	0.050	2	1.47	0.013	0.10	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
992612	Soil	18	0.47	125	0.046	1	1.28	0.010	0.04	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000515.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
992613	Soil	0.7	17.5	8.6	57	<0.1	21.2	10.4	575	3.10	9.8	<0.5	1.0	37	<0.1	0.6	0.1	61	0.25	0.020	6
992614	Soil	0.3	9.9	7.6	70	<0.1	16.2	5.8	249	1.92	4.2	<0.5	0.8	19	<0.1	0.2	0.1	38	0.17	0.028	6
992615	Soil	0.4	11.3	6.3	105	0.2	14.9	6.0	421	2.25	4.6	<0.5	0.8	22	0.2	0.3	0.1	44	0.19	0.053	7
992616	Soil	0.7	8.9	7.0	64	<0.1	15.4	7.7	466	2.54	5.7	<0.5	0.7	22	<0.1	0.3	0.1	53	0.15	0.026	5
992617	Soil	0.8	9.1	6.1	61	<0.1	14.4	6.8	468	2.36	5.6	<0.5	0.6	27	0.1	0.3	0.1	45	0.19	0.021	5
992618	Soil	0.5	12.6	5.4	93	0.2	19.0	6.2	423	2.30	5.2	<0.5	0.7	20	<0.1	0.3	<0.1	46	0.19	0.030	6
992650	Soil	0.8	5.5	6.9	103	0.1	5.6	4.7	681	1.63	2.1	<0.5	0.3	24	3.3	0.3	0.1	40	0.31	0.031	5
992651	Soil	0.6	6.6	7.7	122	0.2	7.5	4.9	400	1.82	4.5	<0.5	0.5	19	0.5	0.2	0.1	43	0.30	0.017	5
992654	Soil	0.8	13.3	16.9	428	0.3	17.7	10.1	1300	3.50	16.0	<0.5	0.5	18	1.6	0.3	0.2	61	0.32	0.066	5
992655	Soil	1.1	33.5	24.3	821	1.0	23.3	15.9	4465	4.58	15.7	<0.5	0.6	25	3.8	0.5	0.3	68	0.69	0.091	10
992656	Soil	0.8	6.4	6.3	160	<0.1	8.5	5.9	855	2.20	10.2	<0.5	0.2	15	0.6	0.3	0.1	45	0.27	0.039	5
992657	Soil	0.8	9.0	9.0	233	0.2	9.6	6.6	351	2.88	7.6	<0.5	0.4	16	0.9	0.4	0.2	63	0.29	0.033	5
992658	Soil	0.7	14.8	12.2	257	0.2	14.6	8.6	1103	3.29	12.8	<0.5	0.3	18	1.0	0.4	0.1	54	0.34	0.059	5
992659	Soil	1.0	10.5	16.6	425	0.3	11.1	8.8	1383	3.55	17.4	<0.5	0.3	13	1.3	0.4	0.2	63	0.24	0.089	5
992660	Soil	0.8	8.8	18.1	541	0.4	9.8	10.3	2391	2.89	10.5	<0.5	0.3	31	5.9	0.3	0.2	57	0.62	0.068	5
992661	Soil	1.5	9.1	18.6	367	0.6	10.5	9.6	1132	3.46	17.1	<0.5	0.4	18	2.0	0.4	0.2	68	0.25	0.058	5
992662	Soil	0.9	10.8	16.2	230	0.7	13.9	9.0	1046	3.39	19.1	15.8	0.4	14	0.7	0.5	0.2	68	0.17	0.048	5
992663	Soil	0.7	14.1	13.8	215	0.2	12.2	7.8	1565	2.58	11.3	<0.5	0.1	25	1.3	0.3	0.1	45	0.55	0.104	3
992664	Soil	0.8	10.5	11.8	156	0.1	10.5	6.1	402	3.06	10.6	<0.5	0.2	15	0.5	0.4	0.2	64	0.17	0.054	4
992665	Soil	0.9	16.6	16.6	179	0.1	16.6	8.3	532	3.72	16.4	<0.5	0.9	17	0.2	0.4	0.2	71	0.18	0.081	5
992666	Soil	0.5	8.4	10.6	142	<0.1	10.5	5.8	324	3.20	8.1	<0.5	0.3	11	0.2	0.4	0.2	66	0.16	0.074	5
992667	Soil	0.7	10.3	11.0	100	<0.1	10.8	6.2	413	2.75	8.0	<0.5	0.5	14	0.3	0.3	0.2	55	0.18	0.074	5
992668	Soil	0.6	8.7	8.2	94	<0.1	9.1	5.1	456	2.44	6.8	<0.5	0.3	16	0.2	0.3	0.1	51	0.16	0.038	5
992669	Soil	0.8	13.3	11.4	165	0.1	16.2	7.3	458	3.07	9.9	<0.5	0.6	18	0.3	0.3	0.1	57	0.20	0.040	5
992670	Soil	0.7	13.8	15.1	272	0.3	10.6	6.8	1266	3.11	11.8	5.2	0.2	21	1.0	0.3	0.1	46	0.39	0.065	5
992671	Soil	1.0	12.6	17.9	349	0.3	10.1	9.7	1427	3.38	8.7	<0.5	0.3	27	2.9	0.3	0.2	62	0.29	0.078	5
992672	Soil	1.0	24.8	86.5	307	0.2	14.6	12.3	2061	3.09	12.9	<0.5	0.2	40	2.5	0.4	0.2	55	0.57	0.116	5
992673	Soil	1.2	96.0	40.1	469	1.4	37.2	11.7	1320	3.40	17.5	<0.5	0.7	62	15.4	0.6	0.1	50	1.43	0.104	19
992674	Soil	1.5	37.8	57.5	305	0.6	20.3	12.7	1332	3.32	29.2	<0.5	0.5	47	4.5	0.7	0.1	52	0.81	0.068	6
992676	Soil	1.5	22.3	110.4	310	0.4	18.1	13.1	1102	3.59	17.0	<0.5	0.7	28	1.7	0.6	0.2	62	0.62	0.038	6

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CERTIFICATE OF ANALYSIS

SMI12000515.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992613	Soil	23	0.53	133	0.058	1	1.34	0.012	0.05	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
992614	Soil	16	0.45	112	0.049	1	1.19	0.011	0.04	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
992615	Soil	17	0.40	162	0.043	2	1.30	0.010	0.05	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
992616	Soil	19	0.39	114	0.043	1	1.23	0.009	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
992617	Soil	16	0.40	134	0.046	<1	1.13	0.009	0.05	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
992618	Soil	19	0.47	162	0.038	<1	1.36	0.011	0.05	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
992650	Soil	11	0.15	174	0.043	1	0.48	0.007	0.07	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
992651	Soil	12	0.23	162	0.037	1	0.72	0.009	0.06	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
992654	Soil	21	0.46	298	0.025	2	1.61	0.009	0.07	0.1	0.04	3.8	<0.1	<0.05	6	<0.5	<0.2
992655	Soil	28	0.53	614	0.023	2	2.77	0.011	0.09	0.1	0.07	7.9	0.2	<0.05	8	<0.5	<0.2
992656	Soil	13	0.30	209	0.030	2	0.87	0.007	0.06	0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
992657	Soil	16	0.36	157	0.036	1	1.10	0.007	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
992658	Soil	19	0.47	544	0.023	1	1.43	0.009	0.05	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
992659	Soil	17	0.36	263	0.022	1	1.47	0.008	0.05	0.1	0.04	3.2	<0.1	<0.05	6	<0.5	<0.2
992660	Soil	15	0.30	314	0.037	2	1.18	0.008	0.07	0.2	0.05	3.0	<0.1	<0.05	6	<0.5	<0.2
992661	Soil	16	0.36	177	0.031	<1	1.16	0.009	0.06	0.2	0.04	3.2	<0.1	<0.05	6	<0.5	<0.2
992662	Soil	19	0.40	273	0.029	2	1.57	0.008	0.06	0.2	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
992663	Soil	14	0.31	477	0.018	2	1.37	0.006	0.07	0.1	0.13	2.4	<0.1	<0.05	4	<0.5	<0.2
992664	Soil	16	0.34	247	0.021	1	1.23	0.008	0.04	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
992665	Soil	21	0.49	295	0.022	1	2.20	0.008	0.05	0.1	0.04	4.4	0.1	<0.05	7	<0.5	<0.2
992666	Soil	16	0.30	172	0.021	1	1.59	0.008	0.04	0.2	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
992667	Soil	15	0.27	217	0.022	1	1.39	0.007	0.05	0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
992668	Soil	13	0.28	147	0.034	<1	0.93	0.008	0.05	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
992669	Soil	18	0.42	205	0.028	1	1.59	0.007	0.05	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
992670	Soil	15	0.32	254	0.020	3	1.29	0.007	0.11	0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
992671	Soil	18	0.31	450	0.033	1	1.18	0.008	0.09	0.2	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
992672	Soil	18	0.44	401	0.027	2	1.25	0.007	0.09	0.2	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
992673	Soil	26	0.62	900	0.010	3	2.24	0.011	0.12	<0.1	0.08	9.3	0.3	<0.05	6	0.6	<0.2
992674	Soil	20	0.51	554	0.029	2	1.33	0.013	0.12	<0.1	0.07	6.1	0.3	<0.05	4	<0.5	<0.2
992676	Soil	22	0.49	177	0.026	2	1.68	0.011	0.09	0.1	0.04	6.1	0.2	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992677	Soil		1.0	12.2	19.0	171	0.1	13.3	9.3	705	3.30	8.5	26.4	0.4	24	1.2	0.3	0.2	60	0.41	0.039	7
992678	Soil		0.8	108.6	27.5	280	6.5	28.1	12.8	1101	4.16	16.7	1.7	0.9	52	2.3	0.7	0.4	69	1.10	0.073	8
992679	Soil		1.3	16.5	12.5	205	0.2	17.0	8.7	588	2.99	10.1	1.2	0.4	24	1.7	0.4	0.1	66	0.33	0.026	5
992680	Soil		0.8	66.6	19.9	269	1.0	26.7	8.9	787	2.63	11.9	2.3	0.5	70	2.5	0.5	0.1	44	2.06	0.107	12
992681	Soil		1.1	15.9	11.4	188	0.1	15.5	8.8	768	3.04	10.0	<0.5	0.5	15	0.7	0.4	0.1	63	0.32	0.037	6
992683	Soil		1.2	23.0	17.1	228	<0.1	19.9	12.1	2679	3.32	12.8	0.6	1.0	20	1.0	0.4	0.2	61	0.55	0.056	9
992684	Soil		0.8	8.0	9.3	136	<0.1	14.8	7.8	432	2.89	7.3	<0.5	0.6	15	0.2	0.3	0.1	67	0.24	0.023	5
992685	Soil		0.8	11.3	13.1	126	<0.1	12.9	6.2	257	2.97	10.4	2.0	0.9	13	0.2	0.4	0.1	67	0.17	0.065	5
992687	Soil		0.8	16.8	15.0	232	0.1	23.1	12.3	1697	3.45	13.5	0.7	1.2	23	0.6	0.3	0.1	68	0.53	0.034	11
992688	Soil		1.1	92.9	27.8	231	1.2	16.6	10.9	2412	4.67	24.8	<0.5	1.1	17	1.1	0.5	0.1	54	0.73	0.053	16
992689	Soil		0.7	6.9	8.5	255	0.2	10.0	7.8	973	2.42	5.7	1.1	0.7	14	1.3	0.3	0.1	53	0.24	0.022	6
992690	Soil		1.0	14.7	17.2	676	0.4	15.8	10.9	1917	3.08	15.8	0.9	0.4	29	9.2	0.4	0.2	63	0.59	0.069	5
992691	Soil		1.0	11.5	10.7	209	0.2	14.5	7.6	360	3.32	10.7	1.3	0.3	18	1.1	0.5	0.1	75	0.32	0.045	5
992692	Soil		1.0	11.6	14.9	214	0.3	8.4	9.2	1796	2.30	5.0	<0.5	0.4	28	2.3	0.3	0.2	56	0.59	0.036	5
992693	Soil		0.8	9.1	12.4	363	<0.1	9.3	9.4	2672	2.30	2.9	5.0	0.3	25	2.7	0.3	0.2	47	0.45	0.082	5
992695	Soil		0.8	18.1	11.3	144	0.1	20.7	9.9	537	3.11	11.6	<0.5	0.5	22	0.5	0.4	0.1	62	0.40	0.034	5
992696	Soil		1.4	143.4	9.7	139	2.5	31.3	8.4	4703	2.22	9.1	0.7	0.5	66	3.8	0.8	0.1	38	3.10	0.099	32
992697	Soil		1.1	13.1	10.5	187	0.4	13.6	9.0	651	2.83	12.0	3.1	0.7	15	0.8	0.4	0.1	62	0.34	0.025	5
992698	Soil		0.8	13.6	13.8	296	0.2	17.6	10.7	1142	3.05	8.2	1.1	0.5	20	1.0	0.4	0.1	64	0.28	0.045	5
992699	Soil		1.1	12.2	15.4	478	0.7	14.4	10.8	810	3.27	12.3	<0.5	0.4	24	1.9	0.5	0.1	70	0.37	0.051	5
992700	Soil		1.5	26.9	23.7	483	0.4	14.6	16.4	2575	3.71	14.3	0.8	0.3	34	4.2	0.3	0.3	72	0.79	0.088	5
992701	Soil		0.7	94.8	15.2	300	2.1	42.3	9.9	736	4.68	38.4	1.6	1.1	75	2.0	0.6	0.2	69	1.94	0.148	26
992702	Soil		0.8	16.9	11.9	316	0.2	17.3	9.2	1991	2.63	5.9	<0.5	0.4	31	2.3	0.3	0.1	53	0.35	0.061	6
992703	Soil		0.7	10.6	9.6	171	0.1	16.6	8.4	989	2.65	8.0	<0.5	0.3	43	1.3	0.3	0.1	55	0.57	0.081	5
992704	Soil		0.8	11.2	11.3	157	0.1	11.9	8.4	1856	2.58	6.0	<0.5	0.1	16	0.8	0.3	0.1	58	0.17	0.068	5
992705	Soil		0.9	9.5	7.3	152	0.1	12.9	6.6	580	2.46	6.3	<0.5	0.3	17	0.3	0.3	0.2	53	0.21	0.042	6
992706	Soil		0.9	8.4	10.0	155	<0.1	11.6	6.8	572	2.90	7.0	0.8	0.6	21	0.6	0.4	0.1	67	0.23	0.048	5
992707	Soil		0.7	8.2	7.9	105	<0.1	12.3	5.3	259	2.49	6.2	<0.5	0.7	13	0.2	0.3	0.1	57	0.14	0.030	6
992708	Soil		0.6	9.8	6.0	87	<0.1	12.5	6.0	366	2.25	5.3	0.8	0.5	21	0.2	0.3	0.1	50	0.21	0.053	5
992709	Soil		0.5	11.8	7.3	132	<0.1	16.6	7.1	429	2.52	6.6	1.4	0.5	24	0.7	0.4	0.1	56	0.24	0.059	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992677	Soil	18	0.41	677	0.020	2	1.64	0.008	0.06	0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
992678	Soil	31	0.56	710	0.010	4	2.48	0.008	0.09	0.2	0.10	8.0	0.1	0.09	7	0.7	<0.2
992679	Soil	21	0.43	242	0.039	3	1.16	0.006	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
992680	Soil	23	0.56	506	0.009	5	1.80	0.010	0.08	0.1	0.15	6.7	0.2	0.15	4	1.1	<0.2
992681	Soil	21	0.39	211	0.035	3	1.38	0.007	0.05	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
992683	Soil	24	0.45	499	0.035	3	1.77	0.006	0.12	0.1	0.05	6.2	<0.1	<0.05	6	<0.5	<0.2
992684	Soil	18	0.37	176	0.046	2	1.22	0.006	0.08	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
992685	Soil	19	0.33	133	0.035	2	1.39	0.006	0.05	0.1	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2
992687	Soil	27	0.44	643	0.029	3	2.26	0.008	0.10	<0.1	0.05	7.2	0.1	<0.05	7	<0.5	<0.2
992688	Soil	21	0.43	533	0.015	3	2.03	0.006	0.11	0.2	0.08	14.1	<0.1	<0.05	6	<0.5	<0.2
992689	Soil	16	0.29	136	0.057	3	0.84	0.007	0.06	0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
992690	Soil	20	0.40	215	0.046	5	1.18	0.007	0.10	0.2	0.03	3.2	<0.1	<0.05	5	0.5	<0.2
992691	Soil	20	0.39	146	0.039	2	1.15	0.007	0.06	0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
992692	Soil	14	0.26	428	0.048	3	0.74	0.007	0.07	0.2	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
992693	Soil	14	0.24	892	0.045	3	0.86	0.008	0.07	0.2	0.04	2.6	<0.1	<0.05	4	<0.5	<0.2
992695	Soil	22	0.49	217	0.044	2	1.43	0.007	0.05	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
992696	Soil	20	0.38	852	0.012	4	1.64	0.008	0.06	0.1	0.18	8.4	0.1	0.15	5	2.4	<0.2
992697	Soil	20	0.41	139	0.058	3	1.06	0.007	0.06	0.1	0.02	2.9	<0.1	0.08	5	<0.5	<0.2
992698	Soil	21	0.47	200	0.044	3	1.27	0.008	0.06	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
992699	Soil	21	0.47	220	0.041	4	1.25	0.008	0.09	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992700	Soil	23	0.39	358	0.055	3	1.21	0.008	0.11	0.1	0.05	3.9	<0.1	0.07	6	<0.5	<0.2
992701	Soil	39	0.61	666	0.013	3	3.39	0.016	0.12	<0.1	0.20	15.4	0.2	0.15	8	1.3	<0.2
992702	Soil	19	0.38	269	0.041	2	1.21	0.007	0.08	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
992703	Soil	18	0.43	191	0.040	3	1.14	0.007	0.07	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
992704	Soil	17	0.30	158	0.025	2	1.12	0.007	0.08	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
992705	Soil	16	0.32	141	0.033	2	1.13	0.006	0.06	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
992706	Soil	17	0.35	112	0.041	2	1.08	0.007	0.08	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
992707	Soil	17	0.39	84	0.039	1	1.27	0.006	0.04	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
992708	Soil	17	0.37	113	0.037	1	0.97	0.006	0.05	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
992709	Soil	19	0.46	189	0.040	2	1.21	0.007	0.04	0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992710	Soil	0.7	9.5	7.0	141	0.1	12.7	6.2	488	2.34	6.4	<0.5	0.3	26	0.3	0.3	0.1	54	0.27	0.039	5
992711	Soil	0.6	19.3	11.8	182	0.2	22.9	13.2	1108	2.87	8.0	0.5	0.8	29	0.6	0.4	0.1	61	0.36	0.040	7
992712	Soil	0.6	24.3	9.2	95	0.1	23.9	9.1	607	2.80	8.6	1.4	1.4	39	0.4	0.5	0.1	56	0.46	0.060	9
992713	Soil	1.0	15.3	14.9	245	0.2	21.6	9.1	669	2.99	17.4	<0.5	0.8	19	0.6	0.5	0.1	59	0.28	0.030	6
992714	Soil	0.9	15.0	13.8	256	0.2	17.3	10.4	1448	3.04	11.2	0.6	0.5	25	1.3	0.3	0.1	60	0.50	0.055	6
992715	Soil	0.8	10.6	10.8	196	0.3	12.8	6.8	469	2.72	9.9	<0.5	0.4	22	0.7	0.3	0.1	58	0.46	0.050	5
992716	Soil	0.7	9.1	6.7	91	0.2	13.5	6.9	478	2.60	7.3	<0.5	0.6	18	0.3	0.3	0.1	54	0.28	0.035	5
992717	Soil	1.0	21.4	15.9	307	0.2	17.8	9.4	1731	2.76	11.0	1.6	0.5	31	3.1	0.5	0.2	50	0.62	0.083	5
992718	Soil	0.7	26.1	10.6	104	0.1	23.9	12.3	845	3.15	13.1	1.3	0.7	29	0.5	0.6	0.2	56	0.41	0.086	9
992719	Soil	0.8	26.8	18.3	252	0.2	18.3	12.8	1846	3.60	40.9	1.2	0.2	29	1.8	0.5	0.2	63	0.87	0.069	5
992720	Soil	1.0	15.0	20.9	367	0.4	12.6	12.3	2553	3.64	13.8	<0.5	0.3	27	4.5	0.5	0.2	69	0.57	0.111	4
992721	Soil	0.9	11.7	12.4	265	0.3	9.7	7.6	2431	2.40	5.1	0.6	0.5	18	2.7	0.3	0.2	43	0.33	0.059	5
992722	Soil	0.7	10.7	12.4	160	0.3	9.1	8.0	1497	2.26	5.0	<0.5	0.4	19	1.6	0.3	0.2	46	0.33	0.051	6
992723	Soil	1.1	16.8	30.8	313	0.3	15.6	9.6	1440	3.16	10.1	0.7	0.4	18	3.6	0.4	0.1	60	0.46	0.038	5
992724	Soil	0.7	6.8	10.0	277	0.2	9.2	8.5	1863	2.14	2.7	0.8	0.4	23	2.4	0.2	0.2	44	0.32	0.038	5
992725	Soil	0.9	39.1	16.8	421	1.6	26.7	12.1	1853	3.32	11.4	5.4	1.3	32	1.6	0.4	0.2	56	0.66	0.047	20
992726	Soil	1.0	25.9	17.9	332	0.7	18.8	12.0	1324	3.27	12.8	1.1	0.7	33	1.5	0.4	0.1	58	0.77	0.043	8
992727	Soil	1.0	11.6	8.2	190	0.2	14.7	7.9	442	2.86	10.0	1.1	0.5	21	0.6	0.4	0.1	58	0.27	0.027	4
992728	Soil	0.8	45.7	13.7	350	0.7	23.2	10.7	1179	3.04	8.4	<0.5	0.8	29	2.2	0.4	0.2	53	0.50	0.035	13
992729	Soil	1.1	15.1	12.9	256	0.3	12.1	9.6	1330	2.63	6.6	1.9	0.2	38	3.6	0.4	0.2	54	0.50	0.074	5
992730	Soil	1.0	15.9	10.2	248	0.2	16.7	9.9	813	3.00	9.9	1.8	0.7	20	1.3	0.4	0.1	60	0.26	0.036	5
992731	Soil	1.3	18.6	20.2	318	0.4	15.1	9.4	734	3.16	16.1	2.9	0.3	38	2.2	0.4	0.1	60	0.65	0.047	5
992732	Soil	1.0	151.4	17.1	465	2.6	54.7	13.8	1785	4.85	17.4	1.5	1.9	59	4.7	0.6	0.3	72	1.42	0.098	21
992733	Soil	0.5	37.3	9.9	180	0.7	17.5	6.7	576	1.88	7.1	2.5	0.3	73	2.6	0.5	0.2	30	2.16	0.085	10
992734	Soil	0.7	45.3	12.0	208	0.6	25.4	8.4	599	2.55	9.8	3.0	0.4	67	2.5	0.4	0.1	43	1.68	0.081	13
992735	Soil	0.7	64.8	16.4	304	1.4	32.1	11.4	1124	3.44	12.4	1.0	0.9	51	4.1	0.4	0.2	55	0.93	0.070	18
992736	Soil	0.7	49.8	13.2	236	1.0	26.3	9.9	666	2.98	11.0	0.9	0.4	59	3.8	0.3	0.2	53	1.29	0.056	10
992737	Soil	0.8	15.5	8.4	262	0.2	17.2	9.0	743	2.96	9.6	0.9	0.2	26	1.9	0.4	0.1	58	0.42	0.057	5
992738	Soil	0.8	88.7	10.3	271	1.4	25.3	7.5	1103	2.18	7.8	2.1	0.3	75	8.5	0.4	0.1	35	2.49	0.079	13
992739	Soil	0.9	53.3	16.2	298	0.8	25.1	9.5	773	2.94	11.9	0.7	0.5	62	3.7	0.5	0.1	46	1.66	0.081	13

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992710	Soil	17	0.38	158	0.042	<1	0.98	0.006	0.10	0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
992711	Soil	24	0.56	201	0.047	3	1.59	0.011	0.06	0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
992712	Soil	26	0.59	162	0.062	2	1.47	0.019	0.07	<0.1	0.04	6.2	<0.1	<0.05	4	<0.5	<0.2
992713	Soil	21	0.50	147	0.056	1	1.36	0.008	0.06	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
992714	Soil	20	0.41	322	0.038	2	1.39	0.007	0.11	0.1	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
992715	Soil	17	0.34	196	0.041	2	1.04	0.006	0.08	0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
992716	Soil	17	0.39	179	0.045	4	1.00	0.007	0.06	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
992717	Soil	19	0.42	337	0.024	3	1.10	0.006	0.08	0.1	0.04	3.6	<0.1	0.06	4	<0.5	<0.2
992718	Soil	24	0.55	160	0.039	3	1.37	0.009	0.08	0.2	0.04	5.5	<0.1	<0.05	4	<0.5	<0.2
992719	Soil	22	0.47	223	0.026	3	1.42	0.005	0.09	0.2	0.03	3.3	<0.1	0.06	5	<0.5	<0.2
992720	Soil	18	0.39	432	0.038	3	1.11	0.007	0.10	0.3	0.04	3.0	<0.1	0.06	6	<0.5	<0.2
992721	Soil	13	0.26	361	0.047	2	0.71	0.005	0.09	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
992722	Soil	15	0.25	311	0.034	<1	0.77	0.005	0.12	0.2	0.02	2.5	<0.1	0.05	4	<0.5	<0.2
992723	Soil	18	0.39	517	0.031	3	1.23	0.006	0.09	0.1	0.03	4.3	<0.1	0.08	5	0.5	<0.2
992724	Soil	13	0.22	228	0.051	3	0.70	0.006	0.06	0.1	0.01	1.9	<0.1	0.05	4	0.6	<0.2
992725	Soil	28	0.56	525	0.017	1	2.32	0.008	0.11	0.1	0.08	15.1	<0.1	<0.05	6	0.7	<0.2
992726	Soil	22	0.51	333	0.025	3	1.52	0.010	0.07	0.1	0.05	6.0	<0.1	0.06	5	<0.5	<0.2
992727	Soil	19	0.46	141	0.034	3	1.15	0.006	0.05	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
992728	Soil	23	0.46	390	0.029	2	1.55	0.008	0.08	0.1	0.02	6.2	<0.1	<0.05	6	0.5	<0.2
992729	Soil	16	0.30	224	0.027	4	1.02	0.007	0.08	0.2	0.04	2.5	<0.1	0.07	5	<0.5	<0.2
992730	Soil	20	0.45	240	0.047	2	1.17	0.007	0.06	0.1	0.02	3.5	<0.1	0.06	4	<0.5	<0.2
992731	Soil	19	0.44	237	0.030	3	1.36	0.007	0.05	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
992732	Soil	41	0.72	977	0.009	3	3.66	0.013	0.13	0.1	0.13	18.1	0.1	0.07	8	0.8	<0.2
992733	Soil	18	0.45	345	0.013	4	1.36	0.008	0.05	<0.1	0.14	4.5	<0.1	0.22	3	1.0	<0.2
992734	Soil	23	0.55	458	0.012	4	1.76	0.010	0.07	0.1	0.10	6.1	<0.1	0.10	4	0.6	<0.2
992735	Soil	29	0.56	434	0.014	3	2.38	0.010	0.09	0.1	0.09	10.1	0.1	0.08	6	1.3	<0.2
992736	Soil	24	0.48	453	0.014	2	1.75	0.008	0.07	0.1	0.07	5.6	<0.1	0.06	6	0.8	<0.2
992737	Soil	20	0.48	215	0.033	4	1.26	0.007	0.09	0.1	0.02	2.6	<0.1	0.07	5	<0.5	<0.2
992738	Soil	19	0.42	511	0.011	3	1.50	0.010	0.06	0.1	0.12	5.1	<0.1	0.13	4	1.7	<0.2
992739	Soil	25	0.56	483	0.011	3	1.95	0.009	0.07	0.1	0.15	7.5	0.1	0.12	5	1.3	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992740	Soil	0.8	47.9	12.0	329	0.5	28.4	12.5	1483	3.32	10.8	1.1	0.5	38	4.4	0.3	0.2	60	0.49	0.055	11
992741	Soil	0.5	50.1	14.5	265	0.6	26.3	9.5	786	2.83	10.7	1.4	0.5	66	2.8	0.6	0.1	45	1.69	0.077	12
992742	Soil	0.9	32.3	13.1	136	0.5	16.9	7.4	391	2.61	9.1	<0.5	0.2	39	2.5	0.4	0.1	53	0.77	0.039	6
992743	Soil	1.0	63.4	14.2	278	0.9	24.7	9.1	1159	2.66	11.3	0.5	0.4	66	5.2	0.4	0.1	45	1.85	0.104	11
992744	Soil	0.6	43.4	12.9	253	0.5	22.1	8.6	677	2.64	10.0	0.9	0.4	60	2.5	0.5	0.1	46	1.55	0.068	9
992745	Soil	0.7	48.2	13.9	266	0.6	23.9	9.1	678	2.70	9.9	<0.5	0.4	53	3.6	0.5	0.1	45	1.24	0.072	12
992746	Soil	0.5	14.9	8.8	104	0.1	15.4	8.6	1047	2.44	8.2	<0.5	0.2	35	2.3	0.4	0.1	51	0.97	0.045	4
992747	Soil	0.7	41.9	12.2	138	0.3	27.2	9.8	845	2.83	9.6	0.6	0.3	47	2.5	0.4	0.1	50	0.58	0.059	13
992748	Soil	0.6	21.3	9.5	78	0.4	15.8	6.9	658	2.39	8.0	3.1	0.3	35	0.8	0.4	0.1	51	0.35	0.028	8
992749	Soil	0.7	49.6	13.9	138	0.5	32.2	10.9	800	3.20	9.4	<0.5	0.4	35	1.4	0.4	0.1	58	0.40	0.048	12
992752	Soil	0.8	20.3	12.0	87	<0.1	24.0	10.6	771	3.01	11.8	1.2	0.8	29	0.3	0.5	0.1	58	0.31	0.064	7
992753	Soil	1.2	67.0	14.5	120	0.6	38.6	12.6	1299	3.87	15.8	0.8	1.2	62	0.8	0.6	0.2	61	0.65	0.089	23
992754	Soil	0.7	17.5	11.2	152	<0.1	24.4	11.0	1194	3.82	10.5	<0.5	0.6	32	0.5	0.5	0.1	70	0.31	0.064	7
992755	Soil	0.9	12.7	20.7	342	0.1	16.8	13.0	2568	3.32	9.4	<0.5	0.4	41	2.1	0.4	0.2	56	0.45	0.227	5
992756	Soil	0.9	10.9	14.1	217	0.1	14.3	11.9	1426	3.37	7.0	<0.5	0.6	18	1.3	0.4	0.2	60	0.17	0.127	5
992757	Soil	0.5	12.5	7.5	150	<0.1	13.5	8.0	714	2.35	4.2	<0.5	0.6	32	1.2	0.4	0.1	42	0.41	0.077	5
992758	Soil	0.8	81.6	11.7	267	1.0	50.8	12.4	1111	3.91	8.3	<0.5	1.2	105	2.4	0.5	0.2	54	1.46	0.093	17
992759	Soil	0.6	38.6	16.3	165	0.4	24.9	9.6	772	3.16	11.1	1.5	0.8	44	1.0	0.5	0.1	56	0.71	0.058	9
992760	Soil	0.7	21.0	18.5	167	0.2	19.6	11.7	904	3.00	9.7	1.1	0.8	31	1.0	0.5	0.2	51	0.50	0.037	6
992761	Soil	0.9	11.7	9.1	180	<0.1	13.4	8.2	488	2.83	7.7	0.6	0.4	28	1.2	0.5	<0.1	56	0.51	0.039	4
992762	Soil	0.7	31.9	12.4	126	0.3	21.5	7.6	473	3.06	9.8	5.0	0.7	43	1.7	0.4	0.1	53	0.89	0.040	8
992763	Soil	0.9	11.3	10.2	56	0.1	7.1	3.3	167	2.10	6.0	<0.5	0.4	28	0.7	0.3	0.1	49	0.55	0.018	4
992764	Soil	0.8	14.6	13.3	154	0.1	14.8	8.5	636	3.29	11.4	0.6	0.7	20	0.7	0.5	0.1	63	0.32	0.023	5
992765	Soil	0.9	32.7	13.8	175	0.7	19.2	8.9	1754	3.25	10.9	<0.5	0.5	39	2.8	0.4	0.1	55	0.63	0.043	7
992766	Soil	1.1	10.3	13.7	206	0.1	11.0	7.1	677	3.49	9.7	<0.5	0.6	19	0.7	0.4	0.2	76	0.26	0.029	4
992768	Soil	2.0	203.0	17.4	195	3.3	30.4	11.7	3410	4.51	21.2	2.1	1.0	65	7.1	0.8	0.3	76	0.92	0.166	36
992770	Soil	0.8	19.0	18.2	234	0.2	20.7	10.8	1245	4.08	10.1	0.8	0.7	34	1.0	0.6	0.1	80	0.57	0.085	6
992771	Soil	0.7	61.2	11.7	186	0.9	36.1	9.6	764	3.24	7.8	8.0	0.9	70	1.8	0.5	0.2	51	1.44	0.109	15
992772	Soil	0.7	36.1	9.2	177	0.4	23.1	11.3	1082	2.74	6.6	<0.5	0.5	51	1.7	0.5	0.2	47	1.09	0.067	11
992773	Soil	0.6	62.0	9.2	149	0.6	34.0	10.0	691	3.29	8.3	1.2	0.9	47	1.3	0.5	0.2	57	0.71	0.056	13

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992740	Soil	27	0.52	301	0.024	1	1.82	0.008	0.08	0.1	0.03	5.0	<0.1	0.05	6	0.6	<0.2
992741	Soil	24	0.57	480	0.013	3	1.81	0.009	0.07	<0.1	0.08	6.8	<0.1	0.14	5	1.1	<0.2
992742	Soil	18	0.31	199	0.024	2	1.19	0.007	0.05	0.1	0.03	3.6	<0.1	0.06	5	<0.5	<0.2
992743	Soil	23	0.48	432	0.011	1	1.76	0.006	0.07	0.1	0.11	5.9	<0.1	0.11	5	1.2	<0.2
992744	Soil	21	0.56	391	0.017	3	1.49	0.009	0.07	0.1	0.07	5.4	<0.1	0.09	4	0.7	<0.2
992745	Soil	22	0.52	425	0.016	2	1.62	0.008	0.07	0.1	0.09	6.1	<0.1	0.07	5	1.1	<0.2
992746	Soil	18	0.37	292	0.032	5	1.05	0.006	0.08	<0.1	0.05	2.5	<0.1	<0.05	4	<0.5	<0.2
992747	Soil	21	0.53	300	0.016	2	1.66	0.006	0.10	0.2	0.04	4.1	<0.1	<0.05	5	0.5	<0.2
992748	Soil	15	0.33	238	0.035	1	0.88	0.006	0.07	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
992749	Soil	25	0.61	346	0.020	2	1.84	0.008	0.08	<0.1	0.03	5.0	<0.1	<0.05	6	0.6	<0.2
992752	Soil	22	0.54	126	0.050	1	1.35	0.009	0.08	0.2	0.03	4.2	<0.1	<0.05	4	0.5	<0.2
992753	Soil	31	0.71	341	0.010	4	2.74	0.009	0.12	0.1	0.07	11.2	<0.1	<0.05	7	0.7	<0.2
992754	Soil	25	0.60	205	0.034	4	1.68	0.010	0.07	0.2	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
992755	Soil	18	0.40	385	0.032	4	1.42	0.007	0.11	0.2	0.04	4.0	<0.1	<0.05	6	<0.5	<0.2
992756	Soil	19	0.34	178	0.043	2	1.28	0.006	0.10	0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
992757	Soil	16	0.34	237	0.044	3	0.91	0.006	0.07	<0.1	<0.01	2.9	<0.1	<0.05	4	0.6	<0.2
992758	Soil	37	0.79	752	0.005	3	3.29	0.018	0.23	<0.1	0.05	12.5	<0.1	<0.05	8	0.7	<0.2
992759	Soil	24	0.61	310	0.026	4	1.79	0.014	0.10	<0.1	0.05	7.2	<0.1	<0.05	6	0.7	<0.2
992760	Soil	20	0.54	274	0.039	3	1.38	0.009	0.10	0.1	<0.01	5.0	<0.1	<0.05	5	0.7	<0.2
992761	Soil	18	0.43	167	0.040	2	1.11	0.007	0.06	0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
992762	Soil	20	0.46	426	0.024	2	1.57	0.011	0.05	<0.1	0.03	8.1	<0.1	<0.05	5	0.7	<0.2
992763	Soil	12	0.19	200	0.032	2	0.75	0.006	0.03	0.1	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
992764	Soil	18	0.39	280	0.042	2	1.22	0.007	0.05	0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
992765	Soil	18	0.39	582	0.029	1	1.34	0.010	0.04	0.1	0.02	5.3	<0.1	<0.05	4	0.7	<0.2
992766	Soil	18	0.30	345	0.044	2	1.18	0.006	0.07	0.2	0.03	3.0	<0.1	<0.05	7	<0.5	<0.2
992768	Soil	34	0.38	729	0.021	1	1.98	0.010	0.04	<0.1	0.27	29.5	0.3	<0.05	5	1.9	<0.2
992770	Soil	24	0.61	287	0.042	3	1.63	0.012	0.07	0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
992771	Soil	30	0.66	660	0.008	2	2.70	0.014	0.14	0.1	0.07	11.7	<0.1	0.13	7	1.2	<0.2
992772	Soil	23	0.56	434	0.020	3	1.83	0.011	0.08	<0.1	0.06	7.5	<0.1	<0.05	5	0.8	<0.2
992773	Soil	30	0.66	482	0.015	2	2.45	0.012	0.11	<0.1	0.05	9.8	<0.1	<0.05	7	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992774	Soil	0.6	65.2	13.1	180	0.9	40.0	12.7	875	3.14	5.4	0.9	1.2	67	2.3	0.5	0.3	54	0.90	0.115	18
992775	Soil	0.7	136.3	14.7	305	1.6	55.1	11.6	993	4.58	13.3	2.2	1.5	104	5.3	0.6	0.3	67	1.75	0.177	30
992776	Soil	1.0	66.8	31.9	410	1.2	19.7	11.3	2177	3.66	11.0	1.5	0.7	48	4.7	0.7	0.2	69	0.69	0.076	18
992777	Soil	1.0	12.3	21.3	277	0.2	13.4	9.4	867	3.56	12.9	1.4	0.6	25	1.0	0.6	0.1	70	0.41	0.096	4
992778	Soil	1.4	55.1	21.4	216	1.4	17.6	10.5	1644	3.44	11.9	0.7	0.5	39	1.7	0.6	0.1	67	0.66	0.045	21
992780	Soil	0.6	33.9	11.0	126	0.5	16.9	7.8	1025	2.86	8.9	1.4	0.4	36	1.1	0.5	0.2	51	0.70	0.053	10
992781	Soil	0.7	23.9	12.9	102	<0.1	23.6	11.7	860	3.56	13.7	1.0	1.4	25	0.4	0.6	0.2	67	0.33	0.021	9
992782	Soil	1.0	27.3	18.3	263	0.2	19.2	13.1	2304	3.46	10.0	1.1	0.6	34	2.9	0.4	0.2	65	0.69	0.043	6
992783	Soil	0.6	12.4	13.2	374	0.2	11.8	9.6	1842	3.18	4.9	<0.5	0.6	23	2.2	0.5	0.1	61	0.32	0.088	5
992784	Soil	0.6	22.9	10.2	70	0.3	7.5	3.4	223	1.93	4.0	<0.5	0.5	22	0.9	0.3	0.1	48	0.26	0.015	5
992785	Soil	0.7	21.6	11.2	108	0.3	17.4	7.6	489	2.80	9.1	<0.5	0.5	29	1.0	0.4	<0.1	53	0.38	0.033	5
992786	Soil	0.9	63.1	12.0	212	0.5	36.4	10.1	1226	3.19	10.1	0.6	0.5	82	2.2	0.5	0.1	51	1.01	0.083	17
992787	Soil	0.4	15.2	9.6	64	<0.1	17.5	7.6	446	2.48	6.9	<0.5	0.8	27	0.2	0.4	<0.1	48	0.30	0.031	7
992788	Soil	0.7	13.0	10.2	153	<0.1	15.6	9.2	1077	2.95	8.1	<0.5	0.4	29	0.9	0.4	0.1	56	0.31	0.120	5
992789	Soil	0.4	8.5	5.9	64	<0.1	12.2	5.8	290	2.16	4.4	1.6	0.6	20	0.2	0.3	<0.1	45	0.20	0.029	5
992790	Soil	0.6	8.6	6.7	101	<0.1	9.7	7.8	1522	2.15	2.8	<0.5	0.3	17	0.5	0.3	0.1	45	0.15	0.049	5
992791	Soil	0.9	13.9	19.9	222	0.1	18.6	14.4	1594	3.96	13.8	2.1	0.7	30	0.8	0.5	0.2	74	0.26	0.159	6
992792	Soil	0.8	57.6	14.3	241	0.6	43.1	14.2	2662	3.53	10.1	<0.5	0.5	61	1.9	0.4	0.1	57	0.53	0.183	18
992793	Soil	0.5	18.8	9.1	92	0.2	19.4	8.6	584	2.54	7.1	<0.5	0.4	25	0.5	0.4	<0.1	49	0.23	0.055	7
992794	Soil	0.5	20.2	6.9	89	0.2	19.3	8.0	715	2.43	6.7	<0.5	0.5	39	0.5	0.4	<0.1	43	0.40	0.048	9
992795	Soil	0.5	13.8	6.7	90	0.1	17.7	7.5	632	2.45	7.4	<0.5	0.4	34	0.3	0.4	<0.1	46	0.34	0.055	5
992796	Soil	0.3	8.2	6.1	92	<0.1	12.8	6.8	473	2.16	4.1	<0.5	0.4	22	0.2	0.2	<0.1	42	0.20	0.042	5
992797	Soil	0.5	17.8	6.6	108	0.1	17.2	8.7	1052	2.49	6.1	0.7	0.5	36	0.6	0.4	0.1	46	0.35	0.060	8
992798	Soil	0.7	47.5	10.3	107	0.3	32.6	12.2	967	3.39	11.9	<0.5	0.9	54	0.5	0.4	0.2	60	0.51	0.078	15
992799	Soil	0.5	24.7	9.2	117	0.2	29.6	11.3	783	3.26	6.2	<0.5	1.0	46	0.5	0.3	0.2	52	0.47	0.052	11
992750	Soil	1.0	6.9	10.3	265	0.1	7.1	8.3	1422	2.35	2.6	<0.5	0.4	17	3.5	0.3	0.2	51	0.30	0.029	5
992751	Soil	0.7	10.4	7.7	328	0.2	12.1	8.5	1470	2.36	4.0	1.0	0.4	23	3.8	0.3	0.1	46	0.40	0.045	5



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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000515.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992774	Soil	33	0.63	612	0.015	3	3.01	0.016	0.14	<0.1	0.08	13.9	<0.1	<0.05	9	0.8	<0.2
992775	Soil	40	0.70	1060	0.013	2	3.64	0.019	0.14	<0.1	0.10	22.0	0.1	<0.05	9	1.5	<0.2
992776	Soil	22	0.44	523	0.040	1	1.78	0.010	0.07	0.2	0.08	12.5	0.2	<0.05	6	0.6	<0.2
992777	Soil	19	0.41	282	0.044	2	1.22	0.006	0.06	0.3	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
992778	Soil	20	0.37	559	0.031	1	1.62	0.009	0.05	0.2	0.09	9.3	<0.1	<0.05	6	0.9	<0.2
992780	Soil	18	0.41	398	0.031	2	1.23	0.013	0.04	<0.1	0.10	6.3	<0.1	<0.05	4	0.7	<0.2
992781	Soil	25	0.59	237	0.061	2	1.53	0.016	0.11	0.1	0.03	7.3	<0.1	<0.05	5	<0.5	<0.2
992782	Soil	22	0.39	432	0.035	2	1.49	0.007	0.13	0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
992783	Soil	17	0.32	364	0.052	2	0.87	0.005	0.09	0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
992784	Soil	12	0.13	222	0.043	<1	0.57	0.006	0.07	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
992785	Soil	17	0.38	193	0.034	2	1.13	0.007	0.05	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
992786	Soil	26	0.58	427	0.012	2	2.00	0.009	0.14	<0.1	0.06	9.1	<0.1	<0.05	6	<0.5	<0.2
992787	Soil	18	0.46	143	0.053	<1	1.13	0.009	0.06	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
992788	Soil	19	0.37	192	0.040	2	1.13	0.006	0.09	0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
992789	Soil	15	0.32	130	0.046	1	0.92	0.007	0.06	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
992790	Soil	15	0.22	213	0.044	1	0.86	0.006	0.07	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
992791	Soil	23	0.45	237	0.040	2	1.55	0.007	0.12	0.2	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
992792	Soil	29	0.54	405	0.015	2	2.66	0.012	0.18	<0.1	0.05	7.7	<0.1	<0.05	8	<0.5	<0.2
992793	Soil	18	0.46	159	0.028	2	1.33	0.008	0.06	0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
992794	Soil	19	0.42	199	0.025	2	1.31	0.006	0.10	<0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
992795	Soil	17	0.38	153	0.032	1	1.24	0.007	0.06	0.1	0.06	3.5	<0.1	<0.05	4	<0.5	<0.2
992796	Soil	15	0.32	143	0.035	1	0.98	0.007	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
992797	Soil	18	0.39	177	0.032	<1	1.21	0.007	0.09	<0.1	0.04	4.3	<0.1	<0.05	4	<0.5	<0.2
992798	Soil	29	0.64	292	0.010	1	2.43	0.011	0.15	<0.1	0.06	9.0	<0.1	<0.05	7	<0.5	<0.2
992799	Soil	31	0.49	312	0.025	2	2.17	0.020	0.19	<0.1	0.03	7.9	<0.1	<0.05	7	<0.5	<0.2
992750	Soil	14	0.19	238	0.044	2	0.60	0.006	0.06	0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
992751	Soil	15	0.34	206	0.048	3	0.79	0.005	0.09	0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992255	Soil	1.2	12.5	9.5	200	0.2	15.6	8.4	730	3.01	9.3	<0.5	0.3	19	0.8	0.4	0.1	60	0.33	0.047	4
REP 992255	QC	1.1	12.3	9.7	199	0.2	16.0	8.6	758	3.04	9.5	<0.5	0.3	19	0.9	0.4	0.1	60	0.33	0.047	4
992276	Soil	0.6	29.3	9.6	244	0.2	27.0	13.5	2588	3.31	8.9	<0.5	0.3	50	1.4	0.3	0.1	83	0.63	0.086	7
REP 992276	QC	0.7	29.1	9.6	247	0.2	27.1	13.7	2655	3.38	9.9	0.5	0.3	49	1.4	0.3	0.1	83	0.62	0.086	7
992289	Soil	0.6	10.9	6.2	66	<0.1	15.9	7.0	362	2.67	7.8	0.7	0.6	18	0.2	0.3	0.1	52	0.29	0.025	5
REP 992289	QC	0.7	11.5	6.1	69	<0.1	16.0	7.3	379	2.76	8.4	0.7	0.6	18	0.2	0.3	0.1	58	0.30	0.026	5
992326	Soil	0.9	18.6	10.8	271	0.4	19.7	9.4	1387	3.27	13.3	<0.5	0.5	29	1.1	0.3	0.1	71	0.52	0.042	6
REP 992326	QC	1.0	19.0	10.7	278	0.4	19.6	9.4	1355	3.35	13.4	<0.5	0.5	29	1.1	0.3	0.1	71	0.53	0.041	6
992341	Soil	0.7	26.6	8.3	123	0.1	21.8	9.3	554	2.85	11.0	1.9	0.8	29	0.8	0.5	0.1	65	0.42	0.054	8
REP 992341	QC	0.6	27.6	7.8	119	0.1	22.4	9.7	581	2.99	11.3	<0.5	0.8	28	0.7	0.5	0.1	68	0.44	0.056	8
992557	Soil	0.6	9.1	5.8	90	<0.1	14.6	6.0	353	2.46	4.8	<0.5	0.4	15	0.1	0.3	<0.1	60	0.16	0.023	5
REP 992557	QC	0.7	9.5	5.8	93	<0.1	15.5	6.2	355	2.48	5.1	<0.5	0.4	15	0.1	0.3	<0.1	59	0.16	0.024	5
992573	Soil	0.7	77.2	12.6	180	1.1	52.7	12.8	1328	3.86	10.3	1.2	1.2	77	1.9	0.6	0.2	62	0.94	0.087	24
REP 992573	QC	0.8	79.5	12.8	185	1.3	55.7	13.2	1339	3.94	10.4	0.9	1.2	79	1.9	0.5	0.2	62	0.95	0.091	24
992595	Soil	0.9	15.6	16.0	181	0.2	20.0	11.6	814	3.57	10.3	0.8	0.3	32	1.3	0.4	0.1	74	0.44	0.060	4
REP 992595	QC	0.9	14.9	16.3	184	0.2	20.2	11.9	847	3.66	10.4	<0.5	0.3	32	1.3	0.5	0.1	75	0.46	0.059	4
992612	Soil	0.4	11.6	6.8	70	0.1	14.6	5.4	312	1.92	3.8	<0.5	0.6	30	<0.1	0.2	0.2	39	0.30	0.058	7
REP 992612	QC	0.4	11.3	6.4	71	0.1	14.9	5.4	316	1.90	3.7	<0.5	0.6	30	<0.1	0.2	0.1	39	0.28	0.058	7
992665	Soil	0.9	16.6	16.6	179	0.1	16.6	8.3	532	3.72	16.4	<0.5	0.9	17	0.2	0.4	0.2	71	0.18	0.081	5
REP 992665	QC	0.9	17.1	16.2	178	<0.1	17.7	8.8	550	3.89	16.2	<0.5	0.9	17	0.2	0.4	0.2	73	0.19	0.079	5
992683	Soil	1.2	23.0	17.1	228	<0.1	19.9	12.1	2679	3.32	12.8	0.6	1.0	20	1.0	0.4	0.2	61	0.55	0.056	9
REP 992683	QC	1.1	22.7	17.1	227	<0.1	20.8	12.1	2723	3.33	12.8	0.6	0.9	20	0.9	0.4	0.2	61	0.57	0.058	9
992705	Soil	0.9	9.5	7.3	152	0.1	12.9	6.6	580	2.46	6.3	<0.5	0.3	17	0.3	0.3	0.2	53	0.21	0.042	6
REP 992705	QC	0.8	9.4	7.7	150	<0.1	12.7	6.8	576	2.42	6.2	<0.5	0.4	18	0.3	0.3	0.1	54	0.22	0.043	6
992721	Soil	0.9	11.7	12.4	265	0.3	9.7	7.6	2431	2.40	5.1	0.6	0.5	18	2.7	0.3	0.2	43	0.33	0.059	5
REP 992721	QC	0.8	11.5	12.4	273	0.3	10.0	7.4	2468	2.39	5.3	0.8	0.5	19	2.8	0.3	0.2	44	0.33	0.059	5
992741	Soil	0.5	50.1	14.5	265	0.6	26.3	9.5	786	2.83	10.7	1.4	0.5	66	2.8	0.6	0.1	45	1.69	0.077	12
REP 992741	QC	0.6	52.5	14.3	269	0.7	25.9	9.3	791	2.77	11.0	1.4	0.5	65	3.2	0.5	0.1	46	1.75	0.077	12

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QUALITY CONTROL REPORT

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Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992255	Soil	21	0.36	148	0.033	2	1.12	0.006	0.06	0.2	0.03	3.0	<0.1	0.06	5	<0.5	<0.2
REP 992255	QC	21	0.35	148	0.033	2	1.11	0.006	0.06	0.1	0.03	2.9	<0.1	0.06	5	<0.5	<0.2
992276	Soil	29	0.50	329	0.049	3	1.68	0.009	0.13	<0.1	0.02	4.3	<0.1	0.10	6	<0.5	<0.2
REP 992276	QC	29	0.52	336	0.049	3	1.73	0.010	0.13	0.1	0.03	4.2	<0.1	0.10	6	<0.5	<0.2
992289	Soil	18	0.40	112	0.044	2	1.19	0.009	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 992289	QC	20	0.42	114	0.046	2	1.23	0.009	0.06	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
992326	Soil	24	0.46	274	0.033	2	1.52	0.009	0.07	0.1	0.04	5.9	<0.1	0.06	5	<0.5	<0.2
REP 992326	QC	23	0.47	304	0.033	2	1.56	0.009	0.08	0.1	0.04	6.1	<0.1	0.06	5	<0.5	<0.2
992341	Soil	22	0.41	223	0.047	2	1.25	0.008	0.09	0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
REP 992341	QC	24	0.42	219	0.048	2	1.28	0.008	0.09	0.1	0.01	4.9	<0.1	0.06	5	<0.5	<0.2
992557	Soil	19	0.39	108	0.035	1	1.17	0.006	0.05	<0.1	0.03	2.7	<0.1	0.06	5	<0.5	<0.2
REP 992557	QC	19	0.40	110	0.035	1	1.15	0.007	0.04	0.1	0.02	2.5	<0.1	0.07	5	<0.5	<0.2
992573	Soil	33	0.70	498	0.013	3	2.77	0.013	0.16	<0.1	0.05	10.5	<0.1	<0.05	7	1.1	<0.2
REP 992573	QC	33	0.70	506	0.013	2	2.79	0.014	0.17	<0.1	0.05	10.9	<0.1	0.06	7	0.6	<0.2
992595	Soil	23	0.49	252	0.044	2	1.26	0.007	0.06	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
REP 992595	QC	23	0.50	257	0.045	3	1.28	0.007	0.07	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
992612	Soil	18	0.47	125	0.046	1	1.28	0.010	0.04	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 992612	QC	18	0.46	123	0.044	<1	1.26	0.010	0.04	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
992665	Soil	21	0.49	295	0.022	1	2.20	0.008	0.05	0.1	0.04	4.4	0.1	<0.05	7	<0.5	<0.2
REP 992665	QC	21	0.48	295	0.023	2	2.25	0.008	0.05	0.2	0.05	4.4	<0.1	<0.05	7	<0.5	<0.2
992683	Soil	24	0.45	499	0.035	3	1.77	0.006	0.12	0.1	0.05	6.2	<0.1	<0.05	6	<0.5	<0.2
REP 992683	QC	24	0.45	493	0.035	3	1.77	0.006	0.13	0.2	0.07	6.1	<0.1	<0.05	5	<0.5	<0.2
992705	Soil	16	0.32	141	0.033	2	1.13	0.006	0.06	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 992705	QC	17	0.32	143	0.034	1	1.13	0.006	0.06	0.2	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
992721	Soil	13	0.26	361	0.047	2	0.71	0.005	0.09	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
REP 992721	QC	14	0.26	359	0.047	3	0.70	0.006	0.09	0.2	0.02	2.3	<0.1	0.07	4	<0.5	<0.2
992741	Soil	24	0.57	480	0.013	3	1.81	0.009	0.07	<0.1	0.08	6.8	<0.1	0.14	5	1.1	<0.2
REP 992741	QC	24	0.54	482	0.013	4	1.85	0.010	0.07	0.1	0.10	6.9	0.1	0.13	5	1.0	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992757	Soil	0.5	12.5	7.5	150	<0.1	13.5	8.0	714	2.35	4.2	<0.5	0.6	32	1.2	0.4	0.1	42	0.41	0.077	5
REP 992757	QC	0.5	12.0	7.3	146	<0.1	13.2	7.9	719	2.30	4.4	3.2	0.6	33	0.9	0.3	0.1	43	0.40	0.078	5
992780	Soil	0.6	33.9	11.0	126	0.5	16.9	7.8	1025	2.86	8.9	1.4	0.4	36	1.1	0.5	0.2	51	0.70	0.053	10
REP 992780	QC	0.7	34.9	11.1	127	0.5	17.4	7.9	1004	2.84	8.6	<0.5	0.5	36	1.0	0.5	0.1	51	0.71	0.055	10
Reference Materials																					
STD DS9	Standard	14.7	119.2	132.6	330	1.9	44.6	8.3	640	2.45	25.0	110.7	6.6	68	2.3	5.4	6.1	55	0.77	0.081	14
STD DS9	Standard	15.0	112.8	133.2	310	1.8	42.5	8.1	603	2.37	25.1	107.7	7.3	78	2.4	5.3	6.6	44	0.75	0.080	17
STD DS9	Standard	13.4	103.8	128.6	314	2.0	40.5	7.8	605	2.37	26.1	118.7	7.0	78	2.2	5.8	7.1	43	0.76	0.089	14
STD DS9	Standard	13.3	110.5	133.1	308	1.8	41.3	7.8	589	2.36	25.9	113.1	7.1	73	2.2	5.5	6.5	42	0.75	0.082	15
STD DS9	Standard	14.4	115.4	136.7	313	1.9	43.8	8.2	603	2.41	25.9	136.8	6.9	73	2.2	5.5	6.8	44	0.73	0.080	15
STD DS9	Standard	14.4	103.1	133.0	315	1.9	44.1	7.6	619	2.48	22.2	123.2	5.8	71	2.1	4.6	5.7	50	0.76	0.078	13
STD DS9	Standard	12.5	101.5	120.7	303	1.8	38.4	7.2	583	2.32	25.5	109.7	6.9	75	2.0	5.6	6.4	41	0.74	0.081	14
STD DS9	Standard	13.8	102.2	126.4	313	1.9	43.7	7.5	626	2.49	24.5	119.6	5.4	71	2.1	4.7	5.7	44	0.75	0.086	13
STD DS9	Standard	12.1	101.5	125.3	305	1.6	37.7	7.0	562	2.25	26.0	117.4	6.5	72	2.2	5.4	6.4	39	0.69	0.081	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	7	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	9	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
 Report Date: November 07, 2012

Page: 2 of 2

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000515.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
992757	Soil	16	0.34	237	0.044	3	0.91	0.006	0.07	<0.1	<0.01	2.9	<0.1	<0.05	4	0.6	<0.2
REP 992757	QC	16	0.33	226	0.043	3	0.91	0.006	0.07	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
992780	Soil	18	0.41	398	0.031	2	1.23	0.013	0.04	<0.1	0.10	6.3	<0.1	<0.05	4	0.7	<0.2
REP 992780	QC	18	0.44	401	0.031	2	1.25	0.013	0.04	0.1	0.09	6.1	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	140	0.67	313	0.125	2	1.01	0.084	0.42	3.2	0.18	3.1	5.7	0.26	5	5.7	5.4
STD DS9	Standard	128	0.63	310	0.130	2	0.97	0.088	0.39	3.1	0.20	2.9	5.4	0.16	5	4.8	5.1
STD DS9	Standard	125	0.64	305	0.122	3	0.96	0.086	0.43	3.0	0.19	2.6	5.3	0.16	5	5.0	6.0
STD DS9	Standard	122	0.63	303	0.121	5	0.94	0.086	0.39	3.1	0.21	2.7	5.3	0.19	5	5.0	5.6
STD DS9	Standard	132	0.63	302	0.123	3	0.92	0.080	0.38	3.1	0.23	2.5	5.5	0.17	5	5.6	5.5
STD DS9	Standard	136	0.67	313	0.132	3	0.96	0.081	0.38	3.1	0.22	2.6	5.8	0.24	5	5.9	5.4
STD DS9	Standard	112	0.61	307	0.118	3	0.92	0.084	0.39	3.0	0.22	2.6	5.3	0.10	5	4.9	4.8
STD DS9	Standard	128	0.67	285	0.119	3	1.01	0.086	0.41	2.9	0.21	2.7	5.5	0.23	5	5.5	5.1
STD DS9	Standard	113	0.61	291	0.112	2	0.88	0.081	0.37	3.0	0.18	2.4	5.4	0.12	5	4.7	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.06	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 25, 2012

Report Date: November 07, 2012

Page: 1 of 3

# CERTIFICATE OF ANALYSIS

# SMI12000516.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-08\_201210  
P.O. Number: QZM-ZNT-08  
Number of Samples: 56

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	56	Dry at 60C			SMI
SS80	56	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	56	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

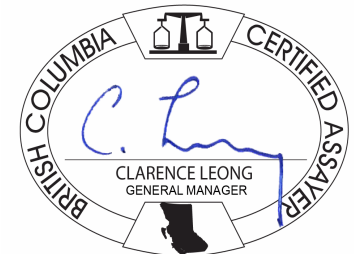
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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





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Project: ZNT  
 Report Date: November 07, 2012

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000516.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992801	Soil	0.6	19.5	6.0	66	0.2	18.8	6.5	325	2.32	4.8	4.9	0.4	22	<0.1	0.3	0.3	45	0.17	0.043	7
992802	Soil	0.6	20.8	7.7	70	<0.1	20.4	8.3	553	2.73	7.1	2.3	0.8	25	<0.1	0.4	0.2	51	0.22	0.035	8
992803	Soil	0.3	10.9	6.1	60	<0.1	15.1	5.4	376	1.72	3.4	2.4	0.8	20	<0.1	0.2	0.2	36	0.21	0.029	6
992804	Soil	0.9	21.5	8.6	101	<0.1	19.9	8.6	940	2.85	8.6	2.2	0.6	48	0.2	0.5	0.2	53	0.46	0.059	7
992805	Soil	0.3	13.3	6.4	67	<0.1	19.5	6.7	336	1.98	3.7	1.5	0.9	22	<0.1	0.2	0.1	42	0.21	0.042	6
992806	Soil	0.6	21.9	8.8	71	0.1	21.1	10.2	657	2.80	8.5	1.2	1.0	23	<0.1	0.4	0.1	54	0.17	0.054	7
992807	Soil	0.6	25.3	6.9	95	0.2	23.1	8.2	603	2.56	5.6	1.3	0.5	33	<0.1	0.2	0.1	50	0.29	0.054	9
992808	Soil	0.7	15.7	7.6	73	<0.1	19.6	7.7	406	2.65	7.7	0.9	0.8	21	<0.1	0.5	0.1	53	0.16	0.020	6
992809	Soil	0.3	9.3	4.0	87	<0.1	13.9	5.1	351	1.79	2.2	0.9	0.5	17	<0.1	0.2	0.1	38	0.15	0.023	6
992810	Soil	0.6	24.9	6.4	82	0.2	23.6	8.7	497	2.55	5.1	<0.5	0.7	33	<0.1	0.3	0.2	49	0.33	0.047	10
992811	Soil	0.6	24.4	6.5	100	0.3	25.3	10.5	1311	2.52	4.7	1.4	0.9	33	0.1	0.3	0.2	48	0.30	0.084	11
992812	Soil	0.4	16.8	6.5	64	<0.1	18.0	6.0	280	2.09	5.2	2.2	0.8	23	<0.1	0.3	0.1	43	0.21	0.034	7
992813	Soil	0.4	14.8	5.9	73	<0.1	17.3	7.2	443	2.60	6.6	2.0	0.8	29	<0.1	0.4	<0.1	55	0.24	0.063	5
992814	Soil	0.6	28.6	16.0	67	<0.1	24.0	10.4	635	3.00	9.8	3.2	1.4	42	<0.1	0.6	0.1	57	0.38	0.052	9
992815	Soil	0.5	6.5	6.0	97	<0.1	13.7	7.2	600	2.34	3.6	<0.5	0.6	22	0.1	0.3	<0.1	50	0.21	0.050	5
992816	Soil	0.6	10.0	6.6	77	<0.1	16.6	8.0	534	2.70	6.5	1.4	0.6	23	<0.1	0.4	<0.1	60	0.19	0.029	5
992817	Soil	0.7	19.3	7.9	94	0.1	19.8	9.8	709	2.65	5.8	2.5	0.7	28	<0.1	0.2	0.1	52	0.25	0.053	8
992818	Soil	0.5	17.6	6.5	68	<0.1	18.7	6.9	376	2.18	5.9	0.6	0.9	28	<0.1	0.3	0.1	45	0.26	0.048	7
992819	Soil	0.7	15.8	8.0	84	<0.1	20.3	9.4	646	3.07	10.1	1.3	0.8	28	0.1	0.6	0.1	60	0.24	0.032	6
992820	Soil	0.5	10.9	6.9	118	<0.1	18.5	8.1	997	2.59	5.1	1.2	0.6	27	0.2	0.3	0.1	56	0.24	0.036	6
992821	Soil	0.7	7.6	6.2	55	<0.1	11.7	6.3	409	2.01	3.5	2.0	0.7	22	<0.1	0.2	<0.1	46	0.16	0.015	6
992822	Soil	0.5	12.7	6.7	99	<0.1	18.2	8.5	864	2.48	5.6	1.9	0.6	36	0.3	0.3	<0.1	49	0.36	0.069	5
992850	Soil	0.8	57.5	17.7	161	0.8	32.2	12.0	1144	3.32	8.6	1.2	0.6	46	1.5	0.3	0.2	59	0.68	0.062	15
992851	Soil	0.9	136.8	21.0	720	1.8	33.0	11.8	1435	3.72	12.9	1.8	0.8	82	7.2	0.5	0.3	60	2.39	0.098	14
992852	Soil	0.7	11.5	15.9	232	0.1	10.1	7.2	564	2.67	7.4	0.7	0.3	17	1.6	0.3	0.1	62	0.31	0.031	5
992853	Soil	1.1	25.6	28.6	377	1.0	11.9	7.7	891	2.79	10.2	1.2	0.3	38	5.4	0.3	0.2	58	1.05	0.043	5
992855	Soil	0.8	16.7	51.4	309	0.1	16.0	12.4	1273	2.89	9.0	0.6	0.5	26	10.4	0.3	0.1	55	0.48	0.036	6
992856	Soil	1.0	26.4	20.4	270	0.3	20.1	8.5	458	3.87	28.2	2.6	0.6	16	0.8	0.6	0.2	70	0.18	0.050	6
992857	Soil	0.8	58.9	28.6	272	0.4	28.5	12.6	1311	3.69	11.2	1.1	0.6	25	1.7	0.3	0.3	68	0.41	0.061	16
992858	Soil	0.9	99.2	17.0	206	1.6	41.0	11.0	1590	3.62	12.7	2.1	1.1	121	2.1	0.4	0.2	60	2.13	0.111	33

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



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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000516.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992801	Soil	23	0.48	123	0.022	2	1.55	0.008	0.06	<0.1	0.03	3.8	0.2	<0.05	5	<0.5	<0.2
992802	Soil	22	0.50	144	0.029	2	1.53	0.008	0.07	<0.1	0.05	4.3	<0.1	<0.05	5	<0.5	<0.2
992803	Soil	16	0.38	106	0.048	1	1.12	0.008	0.04	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
992804	Soil	24	0.53	215	0.028	1	1.60	0.010	0.10	0.1	0.07	4.2	<0.1	<0.05	5	<0.5	<0.2
992805	Soil	20	0.47	99	0.052	<1	1.23	0.008	0.06	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
992806	Soil	23	0.49	151	0.024	2	1.69	0.010	0.07	<0.1	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
992807	Soil	25	0.52	189	0.021	<1	1.87	0.010	0.09	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2
992808	Soil	20	0.50	109	0.040	<1	1.40	0.008	0.05	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
992809	Soil	16	0.32	102	0.035	<1	1.16	0.007	0.05	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
992810	Soil	27	0.55	179	0.022	2	1.96	0.010	0.10	<0.1	0.04	5.4	<0.1	<0.05	6	0.5	<0.2
992811	Soil	27	0.45	220	0.026	<1	2.02	0.011	0.11	<0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2
992812	Soil	20	0.48	108	0.035	<1	1.46	0.008	0.06	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
992813	Soil	20	0.45	122	0.052	<1	1.22	0.011	0.06	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
992814	Soil	25	0.55	157	0.044	<1	1.52	0.013	0.08	<0.1	0.06	6.9	<0.1	<0.05	5	<0.5	<0.2
992815	Soil	16	0.28	130	0.051	<1	1.12	0.007	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
992816	Soil	19	0.35	120	0.043	<1	1.31	0.007	0.04	<0.1	<0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
992817	Soil	22	0.43	170	0.034	1	1.60	0.010	0.08	<0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
992818	Soil	20	0.43	143	0.034	<1	1.56	0.008	0.08	<0.1	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
992819	Soil	21	0.49	145	0.047	<1	1.45	0.007	0.06	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
992820	Soil	21	0.34	203	0.044	<1	1.39	0.008	0.06	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
992821	Soil	15	0.30	131	0.040	<1	1.12	0.007	0.03	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
992822	Soil	19	0.41	148	0.046	1	1.12	0.007	0.07	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
992850	Soil	26	0.63	471	0.016	<1	2.21	0.009	0.09	0.1	0.04	6.0	<0.1	<0.05	6	<0.5	<0.2
992851	Soil	33	0.70	762	0.012	3	2.88	0.011	0.10	<0.1	0.09	12.0	0.2	0.08	7	1.4	<0.2
992852	Soil	16	0.28	227	0.027	<1	1.02	0.005	0.05	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
992853	Soil	16	0.33	237	0.028	1	1.37	0.007	0.03	0.1	0.04	3.0	0.1	<0.05	5	<0.5	<0.2
992855	Soil	18	0.40	258	0.044	2	1.12	0.006	0.06	<0.1	0.03	3.3	0.3	<0.05	5	<0.5	<0.2
992856	Soil	25	0.58	171	0.026	<1	2.19	0.006	0.06	0.1	0.03	4.5	0.1	<0.05	7	<0.5	<0.2
992857	Soil	31	0.63	943	0.011	<1	3.09	0.010	0.08	<0.1	0.04	5.8	<0.1	<0.05	8	<0.5	<0.2
992858	Soil	38	1.07	781	0.012	2	4.20	0.015	0.12	0.1	0.17	15.2	0.1	<0.05	8	0.5	<0.2

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



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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000516.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	ppm
992859	Soil	0.7	17.1	13.4	121	0.1	16.1	9.1	480	2.80	9.5	1.2	0.4	24	0.7	0.3	0.1	58	0.32	0.026	6
992860	Soil	0.7	16.7	11.6	166	0.2	14.5	8.6	1263	2.35	5.7	3.6	0.2	34	1.0	0.3	0.2	50	0.37	0.050	6
992861	Soil	0.7	17.6	9.7	131	0.2	19.2	9.4	1255	2.57	6.5	<0.5	0.3	32	0.9	0.3	<0.1	53	0.35	0.068	6
992862	Soil	0.6	15.0	8.7	129	0.3	17.4	8.3	874	2.71	7.2	1.6	0.1	37	0.3	0.3	0.1	53	0.32	0.059	7
992863	Soil	0.5	23.4	9.9	90	0.2	23.8	10.4	808	3.00	8.6	2.3	0.7	41	0.5	0.4	0.1	57	0.50	0.040	8
992864	Soil	0.6	16.3	7.8	80	0.1	19.1	7.6	545	2.88	10.2	2.1	0.3	30	0.3	0.4	<0.1	55	0.29	0.033	5
992865	Soil	0.5	52.7	7.1	130	0.9	37.7	8.8	799	2.79	7.6	6.9	0.5	107	1.4	0.5	0.4	39	1.46	0.093	29
992866	Soil	0.6	39.7	9.7	114	0.3	29.4	11.9	1094	3.40	10.4	3.0	0.7	43	0.8	0.5	0.2	57	0.52	0.044	13
992867	Soil	0.4	16.2	8.4	113	0.2	19.7	8.5	528	2.78	7.2	1.6	0.6	42	0.5	0.3	0.1	48	0.49	0.040	5
992868	Soil	0.5	20.3	7.9	110	0.2	20.8	8.8	693	2.73	8.8	1.6	0.5	37	0.5	0.4	0.1	49	0.43	0.037	8
992869	Soil	0.5	30.7	9.2	146	0.3	22.6	9.4	1243	2.76	8.4	1.2	0.4	65	1.2	0.4	0.1	45	0.87	0.067	7
992870	Soil	0.7	55.6	9.3	220	1.2	41.2	9.9	731	3.49	10.7	1.2	0.7	88	2.5	0.5	0.2	50	1.23	0.111	12
992871	Soil	0.7	63.2	10.4	119	0.7	39.0	11.0	962	3.14	9.3	1.0	0.5	91	1.0	0.4	0.1	46	1.01	0.102	30
992872	Soil	0.4	10.9	6.4	93	0.2	9.7	4.7	410	1.84	4.6	1.7	0.1	25	0.2	0.3	<0.1	38	0.25	0.033	5
992873	Soil	0.6	15.2	9.6	113	0.2	11.2	7.9	845	2.32	7.1	2.0	0.1	33	0.6	0.3	0.2	45	0.25	0.049	7
992874	Soil	0.6	12.4	6.4	96	0.1	15.8	6.8	581	2.47	7.2	<0.5	0.3	32	0.4	0.3	<0.1	47	0.26	0.032	5
992875	Soil	0.6	16.2	6.6	81	0.1	19.0	6.7	497	2.55	7.5	1.6	0.3	31	0.3	0.3	<0.1	47	0.29	0.040	6
992876	Soil	0.7	29.1	8.8	111	0.3	24.9	10.9	1103	2.87	7.4	2.2	0.2	36	0.4	0.4	<0.1	49	0.31	0.054	11
992877	Soil	0.6	9.4	7.0	127	0.2	10.9	7.0	901	2.52	6.2	<0.5	0.2	35	0.4	0.2	0.1	51	0.42	0.067	5
992878	Soil	0.8	48.4	15.0	195	0.4	14.5	8.1	1774	3.16	13.0	<0.5	<0.1	45	1.3	0.3	0.2	56	0.82	0.107	12
992879	Soil	0.6	34.9	6.4	134	0.4	15.3	4.9	509	1.59	6.4	2.0	0.2	91	1.8	0.5	<0.1	23	2.53	0.073	9
992880	Soil	0.7	62.0	9.5	228	0.5	28.5	9.9	671	3.24	9.3	<0.5	0.3	47	2.4	0.3	<0.1	52	0.62	0.065	16
992881	Soil	0.4	12.0	6.7	191	0.2	16.3	6.9	651	2.44	5.4	<0.5	0.3	21	0.8	0.3	<0.1	48	0.24	0.037	5
992882	Soil	0.6	13.7	8.2	233	0.2	15.8	7.9	886	2.51	7.4	0.7	0.3	25	2.3	0.3	<0.1	48	0.28	0.063	5
992883	Soil	1.3	13.4	7.5	248	0.2	15.4	7.7	394	2.77	9.3	0.6	0.4	24	1.6	0.4	<0.1	53	0.29	0.033	4
992884	Soil	0.8	81.2	16.6	560	2.0	48.4	15.0	1960	4.70	14.5	12.5	1.6	64	3.9	0.6	0.3	73	0.96	0.092	18



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992859	Soil	19	0.42	256	0.032	<1	1.37	0.006	0.05	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992860	Soil	16	0.28	517	0.029	<1	1.13	0.006	0.09	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
992861	Soil	19	0.42	341	0.037	<1	1.28	0.006	0.09	0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
992862	Soil	20	0.37	266	0.027	<1	1.44	0.007	0.06	0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
992863	Soil	23	0.53	197	0.050	<1	1.51	0.009	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	0.5	<0.2
992864	Soil	22	0.50	144	0.036	<1	1.38	0.007	0.06	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
992865	Soil	25	0.67	493	0.004	3	2.41	0.009	0.11	<0.1	0.14	8.3	0.1	<0.05	6	0.8	<0.2
992866	Soil	27	0.57	337	0.021	2	1.77	0.009	0.09	0.1	<0.01	6.9	<0.1	<0.05	5	<0.5	<0.2
992867	Soil	21	0.52	166	0.030	3	1.41	0.008	0.06	<0.1	<0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
992868	Soil	21	0.52	177	0.035	3	1.34	0.007	0.06	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
992869	Soil	22	0.52	266	0.015	2	1.53	0.007	0.08	0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
992870	Soil	31	0.77	511	0.004	<1	2.87	0.010	0.13	0.1	0.14	8.9	<0.1	<0.05	7	<0.5	<0.2
992871	Soil	28	0.66	430	0.006	<1	2.67	0.008	0.12	0.1	0.11	7.1	<0.1	<0.05	7	<0.5	<0.2
992872	Soil	12	0.25	124	0.025	<1	0.86	0.005	0.07	0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
992873	Soil	17	0.26	177	0.023	2	0.92	0.005	0.07	0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
992874	Soil	17	0.42	129	0.033	<1	1.07	0.006	0.04	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
992875	Soil	19	0.49	112	0.033	<1	1.28	0.007	0.07	0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
992876	Soil	23	0.53	214	0.016	1	1.81	0.007	0.08	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
992877	Soil	15	0.25	450	0.026	1	1.07	0.005	0.06	0.2	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
992878	Soil	19	0.25	877	0.009	<1	1.85	0.006	0.08	0.1	0.05	2.2	<0.1	<0.05	6	<0.5	<0.2
992879	Soil	14	0.33	378	0.006	3	1.08	0.007	0.04	<0.1	0.10	3.6	<0.1	0.10	3	<0.5	<0.2
992880	Soil	26	0.58	354	0.011	<1	2.01	0.008	0.12	<0.1	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2
992881	Soil	18	0.39	176	0.038	<1	1.22	0.006	0.05	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
992882	Soil	17	0.37	205	0.032	2	1.11	0.006	0.08	0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
992883	Soil	18	0.42	145	0.034	1	1.15	0.006	0.05	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
992884	Soil	41	0.76	782	0.012	1	3.78	0.017	0.15	<0.1	0.03	16.6	0.1	<0.05	9	<0.5	<0.2



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# QUALITY CONTROL REPORT

SMI12000516.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992862	Soil	0.6	15.0	8.7	129	0.3	17.4	8.3	874	2.71	7.2	1.6	0.1	37	0.3	0.3	0.1	53	0.32	0.059	7
REP 992862	QC	0.8	15.6	8.8	129	0.3	18.0	8.7	855	2.80	7.2	1.4	0.1	37	0.4	0.3	0.1	55	0.33	0.061	7
992863	Soil	0.5	23.4	9.9	90	0.2	23.8	10.4	808	3.00	8.6	2.3	0.7	41	0.5	0.4	0.1	57	0.50	0.040	8
REP 992863	QC	0.5	23.5	9.9	89	0.2	23.9	10.5	774	3.00	9.0	2.5	0.7	41	0.5	0.4	0.1	57	0.50	0.039	8
992883	Soil	1.3	13.4	7.5	248	0.2	15.4	7.7	394	2.77	9.3	0.6	0.4	24	1.6	0.4	<0.1	53	0.29	0.033	4
REP 992883	QC	1.4	12.6	7.4	243	0.2	14.8	7.7	393	2.77	9.3	2.1	0.4	24	1.3	0.4	<0.1	54	0.29	0.034	4
992884	Soil	0.8	81.2	16.6	560	2.0	48.4	15.0	1960	4.70	14.5	12.5	1.6	64	3.9	0.6	0.3	73	0.96	0.092	18
REP 992884	QC	0.9	88.1	16.8	573	2.1	50.1	14.9	1992	4.75	15.1	0.9	1.4	66	4.2	0.7	0.2	76	0.99	0.094	19
Reference Materials																					
STD DS9	Standard	14.2	117.0	143.9	334	1.8	43.1	8.6	600	2.46	27.6	107.2	7.3	78	2.4	5.6	6.8	44	0.77	0.084	15
STD DS9	Standard	13.3	109.9	132.2	310	1.7	39.4	7.7	600	2.38	26.3	116.1	6.2	77	2.5	5.6	6.5	41	0.71	0.082	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

SMI12000516.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992862	Soil	20	0.37	266	0.027	<1	1.44	0.007	0.06	0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
REP 992862	QC	20	0.39	271	0.028	<1	1.43	0.006	0.06	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
992863	Soil	23	0.53	197	0.050	<1	1.51	0.009	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	0.5	<0.2
REP 992863	QC	23	0.54	196	0.049	<1	1.45	0.009	0.07	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
992883	Soil	18	0.42	145	0.034	1	1.15	0.006	0.05	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
REP 992883	QC	18	0.41	149	0.035	<1	1.14	0.006	0.05	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
992884	Soil	41	0.76	782	0.012	1	3.78	0.017	0.15	<0.1	0.03	16.6	0.1	<0.05	9	<0.5	<0.2
REP 992884	QC	42	0.73	804	0.021	2	3.70	0.018	0.17	0.1	<0.01	16.3	0.1	<0.05	9	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	129	0.63	302	0.126	3	0.96	0.085	0.40	3.1	0.24	2.5	5.4	0.17	5	5.5	4.8
STD DS9	Standard	118	0.63	303	0.117	3	0.90	0.084	0.39	3.1	0.18	2.4	5.5	0.12	5	6.3	5.5
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 26, 2012

Report Date: November 07, 2012

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# CERTIFICATE OF ANALYSIS

SMI12000517.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-09\_201210  
P.O. Number: QZM-ZNT-09  
Number of Samples: 193

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	193	Dry at 60C			SMI
SS80	193	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	192	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

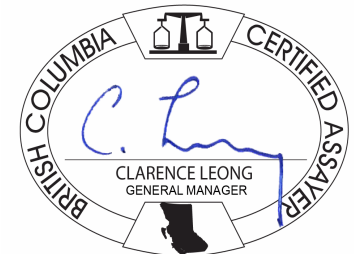
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000517.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	1
992619	Soil		1.1	23.6	31.2	486	0.3	18.6	13.0	1732	4.70	21.4	1.8	0.4	36	3.0	0.7	0.1	76	0.64	0.136	5
992620	Soil		0.9	21.4	23.5	418	0.2	18.9	12.8	2230	4.35	15.5	0.9	0.5	21	3.4	0.6	0.1	70	0.30	0.100	6
992621	Soil		1.1	29.8	25.7	425	0.2	18.3	10.8	1894	3.53	13.1	1.0	0.7	33	3.4	0.6	<0.1	66	0.63	0.135	5
992622	Soil		0.8	17.9	16.2	119	0.2	21.6	12.1	940	4.09	15.6	8.2	1.0	32	0.7	0.6	<0.1	70	0.41	0.052	7
992623	Soil		1.0	23.7	22.6	175	0.3	17.9	12.7	1166	5.11	16.8	20.8	1.2	27	0.5	0.7	<0.1	87	0.37	0.056	8
992624	Soil		0.9	18.9	22.9	158	0.1	16.6	12.9	1171	4.48	16.3	<0.5	1.0	30	0.6	0.6	0.1	74	0.43	0.055	6
992625	Soil		0.9	28.4	26.9	277	0.3	22.1	13.5	1278	4.70	18.3	2.2	0.9	28	1.8	0.6	<0.1	70	0.44	0.077	9
992626	Soil		1.2	22.8	32.3	438	0.4	12.6	13.3	2167	4.42	13.0	0.7	0.3	28	5.1	0.8	<0.1	67	0.41	0.182	5
992627	Soil		0.9	28.1	19.9	189	0.3	18.9	10.5	993	3.81	15.8	1.5	1.2	19	0.5	0.7	<0.1	63	0.26	0.056	7
992628	Soil		1.2	18.7	31.4	543	0.4	13.2	12.0	2759	4.25	11.9	1.2	0.8	30	5.5	0.5	0.1	71	0.43	0.165	6
992629	Soil		1.8	44.3	30.0	658	1.2	18.8	13.9	3371	4.44	14.4	<0.5	0.6	52	5.4	0.5	0.2	70	0.84	0.077	10
992630	Soil		1.1	14.3	31.0	518	0.5	14.0	12.3	2526	5.08	16.9	<0.5	0.8	23	2.6	0.6	0.2	82	0.33	0.194	5
992631	Soil		1.1	10.3	15.8	280	0.3	8.5	8.8	2332	2.69	3.6	1.2	0.6	22	2.1	0.3	0.1	54	0.30	0.119	5
992632	Soil		0.6	12.8	8.3	222	<0.1	18.1	8.9	1074	2.49	5.8	1.9	0.8	35	1.0	0.4	<0.1	47	0.33	0.095	6
992633	Soil		1.2	12.5	32.7	437	0.3	15.3	11.1	1973	3.74	9.2	<0.5	0.6	34	2.3	0.5	0.1	62	0.49	0.192	5
992634	Soil		1.2	20.0	24.9	260	0.3	17.0	11.0	1641	4.13	15.4	161.5	1.0	28	1.6	0.5	0.1	68	0.34	0.155	6
992635	Soil		0.6	22.6	10.4	69	0.2	20.4	9.2	512	2.89	12.5	2.7	1.3	28	0.2	0.7	<0.1	59	0.30	0.037	7
992636	Soil		0.8	28.5	10.5	82	0.3	28.1	11.3	650	3.30	15.2	2.1	1.4	35	0.3	0.8	0.1	60	0.40	0.052	9
992637	Soil		1.3	37.0	11.3	92	0.2	30.6	12.9	816	3.65	15.4	6.1	1.7	55	<0.1	0.9	<0.1	66	0.63	0.073	10
992638	Soil		0.6	13.0	8.2	91	<0.1	17.2	9.2	454	2.84	9.7	<0.5	0.9	22	0.2	0.5	<0.1	58	0.19	0.047	5
992639	Soil		0.6	23.0	10.2	93	0.1	22.4	11.1	945	2.95	10.7	<0.5	1.0	51	0.4	0.6	<0.1	55	0.53	0.064	8
992640	Soil		0.5	15.8	8.9	198	<0.1	21.7	10.1	1287	2.84	7.1	<0.5	1.0	45	0.4	0.4	<0.1	53	0.45	0.143	7
992641	Soil		0.8	38.3	10.1	122	0.2	30.7	14.0	954	3.92	12.7	0.8	1.5	70	0.4	0.8	<0.1	60	0.86	0.105	8
992642	Soil		0.6	14.0	7.4	152	<0.1	17.7	9.8	586	2.65	7.3	<0.5	0.9	37	0.4	0.4	<0.1	51	0.35	0.084	6
992643	Soil		0.5	80.5	10.8	203	1.0	70.1	14.7	894	5.03	9.8	2.0	3.1	83	2.8	0.3	0.2	68	0.81	0.306	24
992644	Soil		1.0	96.7	14.1	360	1.3	66.9	17.7	788	4.77	12.8	<0.5	2.3	83	2.7	0.6	0.2	88	0.72	0.246	17
992645	Soil		0.8	15.6	21.4	572	0.3	15.4	11.3	2591	3.18	5.0	<0.5	0.4	42	2.7	0.6	0.1	58	0.35	0.250	6
992646	Soil		0.6	13.7	8.0	89	<0.1	17.8	9.0	615	2.88	9.7	2.1	0.8	37	0.3	0.6	<0.1	58	0.34	0.036	7
992647	Soil		0.7	21.4	11.2	191	0.3	23.9	10.0	1261	2.78	8.9	37.1	0.6	44	0.5	0.4	0.1	54	0.38	0.103	8
992648	Soil		0.7	17.8	10.6	118	<0.1	20.2	10.2	614	3.17	12.0	1.1	0.9	33	0.3	0.7	0.1	59	0.28	0.044	6

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000517.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992619	Soil	21	0.52	514	0.027	3	1.63	0.006	0.09	0.2	0.03	4.6	0.1	<0.05	6	0.7	<0.2
992620	Soil	21	0.45	451	0.037	<1	1.53	0.007	0.07	0.2	0.04	4.6	0.1	<0.05	6	<0.5	<0.2
992621	Soil	19	0.45	506	0.034	1	1.31	0.007	0.11	0.2	0.03	4.5	0.1	<0.05	5	<0.5	<0.2
992622	Soil	22	0.58	540	0.041	1	1.31	0.012	0.06	<0.1	0.05	6.4	<0.1	<0.05	5	<0.5	<0.2
992623	Soil	21	0.62	670	0.052	<1	1.26	0.014	0.06	0.2	0.04	6.7	0.1	<0.05	5	<0.5	<0.2
992624	Soil	19	0.60	537	0.043	<1	1.24	0.012	0.06	0.1	0.02	6.1	0.1	<0.05	4	<0.5	<0.2
992625	Soil	22	0.61	546	0.031	2	1.53	0.009	0.10	0.1	0.04	8.7	0.2	<0.05	5	<0.5	<0.2
992626	Soil	16	0.42	755	0.024	<1	1.31	0.007	0.09	0.2	0.06	4.6	0.2	<0.05	5	<0.5	<0.2
992627	Soil	19	0.54	310	0.045	<1	1.28	0.011	0.08	<0.1	0.02	6.4	0.2	<0.05	4	<0.5	<0.2
992628	Soil	20	0.39	670	0.045	1	1.31	0.007	0.08	0.2	0.04	4.7	0.1	<0.05	6	<0.5	<0.2
992629	Soil	23	0.38	777	0.023	2	2.07	0.008	0.13	0.2	0.12	8.5	0.2	<0.05	8	<0.5	<0.2
992630	Soil	23	0.42	420	0.042	<1	1.73	0.006	0.08	0.2	0.05	4.2	<0.1	<0.05	8	<0.5	<0.2
992631	Soil	16	0.24	449	0.039	2	0.89	0.006	0.07	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
992632	Soil	18	0.42	282	0.049	1	1.22	0.010	0.08	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
992633	Soil	20	0.43	432	0.039	2	1.38	0.006	0.12	0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
992634	Soil	21	0.40	546	0.038	2	1.37	0.007	0.09	0.2	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
992635	Soil	20	0.45	178	0.058	<1	1.11	0.015	0.08	<0.1	0.03	5.9	<0.1	<0.05	4	<0.5	<0.2
992636	Soil	26	0.56	245	0.040	<1	1.48	0.009	0.13	0.1	0.05	7.2	<0.1	<0.05	5	<0.5	<0.2
992637	Soil	32	0.65	234	0.050	1	1.66	0.021	0.12	0.2	0.07	9.1	<0.1	<0.05	6	<0.5	<0.2
992638	Soil	19	0.44	112	0.058	1	1.26	0.013	0.06	0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
992639	Soil	22	0.50	231	0.052	<1	1.45	0.014	0.21	0.1	0.02	6.1	<0.1	<0.05	5	<0.5	<0.2
992640	Soil	20	0.39	296	0.048	3	1.50	0.012	0.11	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
992641	Soil	28	0.69	229	0.036	4	1.77	0.019	0.18	<0.1	0.06	8.4	<0.1	<0.05	5	<0.5	<0.2
992642	Soil	19	0.45	197	0.044	<1	1.31	0.009	0.08	0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
992643	Soil	46	0.89	729	0.009	<1	4.66	0.029	0.26	<0.1	0.04	24.7	0.1	<0.05	11	0.5	<0.2
992644	Soil	45	0.89	800	0.012	3	5.06	0.028	0.36	0.2	0.05	17.9	0.2	<0.05	13	<0.5	0.3
992645	Soil	20	0.34	580	0.034	3	1.42	0.008	0.09	0.2	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
992646	Soil	19	0.48	134	0.065	2	1.22	0.015	0.08	0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
992647	Soil	23	0.52	303	0.014	1	1.97	0.010	0.13	<0.1	0.05	6.0	<0.1	<0.05	7	<0.5	<0.2
992648	Soil	20	0.52	138	0.059	2	1.34	0.016	0.08	0.1	0.01	4.9	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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CERTIFICATE OF ANALYSIS

SMI12000517.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
992824	Soil		0.6	15.9	12.5	139	0.2	14.2	6.2	305	2.52	5.7	0.5	0.4	33	0.4	0.4	<0.1	56	0.35	0.047	6
992825	Soil		1.0	21.0	7.6	85	0.3	17.8	5.8	340	2.30	6.9	0.6	0.5	54	0.6	0.5	<0.1	46	0.71	0.050	9
992826	Soil		0.6	20.8	7.8	225	0.2	15.1	8.7	813	2.15	3.3	1.0	0.4	52	2.5	0.3	<0.1	41	0.71	0.061	6
992827	Soil		0.9	25.0	9.7	155	0.3	19.2	8.1	1049	2.40	6.8	2.3	0.3	44	3.3	0.3	<0.1	46	0.51	0.053	6
992828	Soil		1.5	123.2	22.1	314	2.0	63.0	14.4	2158	4.76	15.6	3.8	1.4	106	4.7	0.7	0.2	73	1.12	0.136	25
992829	Soil		1.0	41.3	10.4	141	0.5	32.5	10.3	979	3.13	10.2	<0.5	0.6	80	1.2	0.5	<0.1	52	0.77	0.093	14
992830	Soil		1.1	41.1	9.8	124	0.4	35.3	10.7	861	3.67	12.0	3.9	0.6	48	0.6	0.6	0.1	65	0.51	0.072	12
992831	Soil		0.4	18.4	7.8	101	<0.1	19.8	9.0	784	2.68	7.1	1.6	0.5	37	0.5	0.4	<0.1	49	0.44	0.053	6
992832	Soil		0.5	9.0	7.3	109	<0.1	9.6	5.8	605	2.11	3.9	1.9	0.4	21	0.9	0.3	<0.1	46	0.22	0.047	4
992833	Soil		0.8	11.4	18.0	185	0.2	16.0	9.7	889	3.66	10.7	1.1	0.4	24	1.1	0.5	0.1	67	0.23	0.193	4
992834	Soil		0.7	21.4	18.4	125	<0.1	26.0	11.6	1018	3.45	13.5	1.6	1.0	24	0.3	0.6	<0.1	61	0.29	0.072	7
992835	Soil		0.7	15.1	8.2	174	0.2	22.1	9.7	1830	2.71	4.4	0.9	0.2	45	0.5	0.3	0.1	49	0.53	0.091	6
992836	Soil		0.4	11.2	6.8	91	0.1	18.4	7.3	592	2.43	6.1	0.7	0.4	25	0.2	0.3	<0.1	50	0.27	0.044	5
992837	Soil		0.8	17.7	8.5	81	0.2	16.3	10.4	925	2.65	6.7	2.1	0.4	28	0.2	0.3	0.2	57	0.26	0.061	7
992838	Soil		0.8	93.1	17.5	176	1.1	45.2	11.5	1138	3.47	9.6	0.7	0.9	63	1.4	0.4	0.1	59	0.65	0.071	20
992841	Soil		0.6	12.0	9.2	187	0.1	16.3	8.3	797	2.80	6.2	3.5	0.5	22	0.9	0.3	<0.1	52	0.31	0.131	4
992842	Soil		0.5	15.5	6.1	81	0.2	18.6	5.8	306	2.25	4.4	1.5	0.6	21	0.3	0.3	<0.1	43	0.24	0.050	7
992843	Soil		0.6	21.0	9.4	190	0.4	14.0	6.0	678	1.89	6.2	1.5	0.2	55	2.4	0.3	<0.1	38	1.01	0.059	4
992844	Soil		0.7	8.2	8.9	118	0.2	14.4	6.5	270	2.89	7.1	0.7	0.3	14	0.3	0.3	<0.1	51	0.19	0.192	4
992845	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.
992846	Soil		1.0	45.0	30.6	272	0.8	27.3	12.1	1189	4.02	19.0	3.4	1.0	56	1.3	0.8	0.1	76	0.81	0.075	19
992847	Soil		1.7	14.5	27.1	244	0.2	19.2	10.6	572	4.31	19.4	2.2	1.4	18	0.6	0.5	0.1	85	0.38	0.034	10
992848	Soil		0.5	8.1	11.4	139	0.1	8.5	5.1	301	2.55	5.8	2.1	0.3	17	0.3	0.4	0.1	56	0.19	0.042	5
992849	Soil		0.5	14.4	6.8	63	0.1	19.6	7.7	575	2.63	6.5	0.8	0.4	25	0.2	0.4	<0.1	51	0.26	0.056	5
992885	Soil		0.9	27.1	22.6	138	0.4	16.5	12.3	1890	2.62	8.8	1.8	0.5	33	1.8	0.4	<0.1	53	0.50	0.034	11
992886	Soil		1.0	25.3	18.5	469	0.6	13.6	10.8	2953	3.16	7.0	1.2	0.2	40	3.3	0.4	0.1	59	0.66	0.141	5
992887	Soil		0.7	17.3	12.4	81	<0.1	20.2	9.2	522	3.26	12.6	3.2	1.0	18	0.3	0.5	<0.1	59	0.21	0.018	4
992888	Soil		0.6	21.4	18.2	204	0.1	19.1	10.6	635	3.62	12.7	<0.5	0.7	39	1.1	0.4	<0.1	71	0.71	0.039	5
992889	Soil		0.4	24.6	9.8	80	0.2	21.1	7.9	501	2.69	8.5	<0.5	0.9	33	0.6	0.3	<0.1	51	0.48	0.037	6
992890	Soil		0.8	8.6	8.1	88	<0.1	14.0	7.2	679	2.31	6.1	<0.5	0.6	14	0.4	0.3	<0.1	49	0.20	0.020	4

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Project: ZNT  
 Report Date: November 07, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992824	Soil	18	0.37	235	0.033	<1	1.11	0.008	0.07	0.1	0.04	4.2	<0.1	<0.05	5	<0.5	<0.2
992825	Soil	19	0.40	247	0.024	2	1.20	0.009	0.09	0.2	0.05	5.9	<0.1	<0.05	4	<0.5	<0.2
992826	Soil	16	0.35	291	0.036	3	0.95	0.007	0.08	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
992827	Soil	17	0.35	333	0.029	<1	1.13	0.008	0.06	0.2	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
992828	Soil	39	0.80	1117	0.015	<1	3.77	0.017	0.24	0.1	0.07	17.9	0.2	<0.05	10	<0.5	<0.2
992829	Soil	27	0.61	339	0.010	<1	2.38	0.012	0.15	0.1	0.05	8.1	<0.1	<0.05	6	<0.5	<0.2
992830	Soil	29	0.64	285	0.017	<1	2.12	0.010	0.12	0.2	0.05	7.7	<0.1	<0.05	6	<0.5	<0.2
992831	Soil	17	0.45	151	0.045	<1	1.07	0.007	0.07	<0.1	0.02	4.3	<0.1	<0.05	4	0.6	<0.2
992832	Soil	13	0.25	199	0.040	<1	0.71	0.006	0.07	0.1	0.01	2.2	<0.1	<0.05	4	0.9	<0.2
992833	Soil	19	0.44	177	0.033	<1	1.40	0.009	0.08	0.2	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
992834	Soil	21	0.60	114	0.037	<1	1.44	0.011	0.07	<0.1	0.03	5.4	<0.1	<0.05	5	1.9	<0.2
992835	Soil	22	0.41	249	0.018	<1	1.56	0.008	0.14	<0.1	0.03	2.8	<0.1	<0.05	6	0.7	<0.2
992836	Soil	17	0.40	137	0.032	<1	1.09	0.006	0.07	0.1	0.02	2.9	<0.1	<0.05	4	0.6	<0.2
992837	Soil	18	0.34	176	0.018	<1	1.45	0.008	0.05	0.2	0.02	3.5	<0.1	<0.05	6	0.5	<0.2
992838	Soil	29	0.66	517	0.010	<1	2.90	0.011	0.13	0.1	0.08	8.5	0.1	<0.05	7	0.9	<0.2
992841	Soil	17	0.35	238	0.037	<1	1.02	0.006	0.06	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
992842	Soil	17	0.45	128	0.034	<1	1.28	0.012	0.05	<0.1	0.03	3.7	<0.1	<0.05	4	0.8	<0.2
992843	Soil	13	0.27	440	0.025	2	0.87	0.006	0.07	0.1	0.03	2.0	<0.1	<0.05	3	0.9	<0.2
992844	Soil	16	0.33	148	0.027	<1	1.15	0.005	0.06	0.1	0.01	2.5	<0.1	<0.05	4	0.8	<0.2
992845	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.
992846	Soil	30	0.62	704	0.027	<1	2.33	0.014	0.10	0.2	0.13	14.1	0.3	<0.05	6	1.1	<0.2
992847	Soil	23	0.47	433	0.037	<1	1.97	0.012	0.07	0.2	0.04	8.5	0.1	<0.05	6	0.8	<0.2
992848	Soil	13	0.24	138	0.029	<1	0.84	0.007	0.06	0.1	0.02	2.6	<0.1	<0.05	4	1.4	<0.2
992849	Soil	19	0.49	122	0.025	<1	1.42	0.007	0.05	<0.1	0.04	3.0	<0.1	<0.05	5	<0.5	<0.2
992885	Soil	17	0.31	386	0.030	<1	1.18	0.010	0.07	0.1	0.03	5.4	<0.1	<0.05	4	1.0	<0.2
992886	Soil	18	0.33	720	0.032	<1	1.17	0.006	0.14	0.2	0.05	3.1	<0.1	<0.05	6	<0.5	<0.2
992887	Soil	20	0.52	207	0.048	<1	1.25	0.009	0.04	<0.1	0.03	5.1	<0.1	<0.05	4	0.6	<0.2
992888	Soil	21	0.50	544	0.038	<1	1.53	0.015	0.06	0.1	0.03	5.9	<0.1	<0.05	6	0.7	<0.2
992889	Soil	19	0.42	258	0.036	<1	1.21	0.014	0.06	0.1	0.03	5.4	<0.1	<0.05	4	<0.5	<0.2
992890	Soil	15	0.30	219	0.041	<1	0.96	0.006	0.04	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	ppm
992891	Soil	0.5	14.5	10.4	81	0.1	16.5	7.4	566	2.69	8.4	3.1	0.8	35	0.3	0.3	<0.1	55	0.41	0.020	5
992892	Soil	1.1	12.2	19.2	307	0.2	12.7	9.5	1647	3.30	6.4	<0.5	0.2	28	1.3	0.5	0.1	63	0.28	0.107	5
992893	Soil	0.7	9.3	33.7	279	0.1	11.2	9.5	1220	3.14	5.3	<0.5	0.6	22	1.2	0.4	0.1	58	0.31	0.137	4
992894	Soil	0.8	9.5	15.9	404	0.3	11.7	10.0	2157	3.04	6.9	<0.5	0.3	54	1.8	0.5	0.1	58	0.91	0.110	4
992895	Soil	1.4	10.4	18.9	411	0.4	14.6	9.5	983	4.06	14.6	<0.5	0.5	18	2.0	0.4	0.2	76	0.24	0.114	6
992896	Soil	0.9	10.5	16.7	408	0.5	10.1	9.1	2011	2.99	7.9	6.2	0.3	41	3.0	0.4	0.1	57	0.64	0.111	5
992897	Soil	0.9	44.9	7.2	86	0.5	29.4	6.0	379	2.13	6.8	2.6	0.6	117	0.5	0.8	<0.1	36	1.78	0.127	19
992898	Soil	0.6	17.8	7.6	109	0.1	19.3	8.4	706	2.54	6.9	0.9	0.8	26	0.2	0.4	<0.1	50	0.28	0.038	6
992899	Soil	0.5	12.1	8.1	77	0.2	21.3	8.4	645	2.67	8.1	1.0	0.6	24	0.1	0.4	<0.1	53	0.21	0.041	5
992900	Soil	1.1	101.8	13.2	414	1.2	52.5	13.4	1161	4.33	9.8	<0.5	1.5	78	3.3	1.1	0.2	65	1.39	0.118	23
992901	Soil	0.9	23.7	22.6	491	0.2	19.9	11.1	1825	3.58	7.5	16.6	0.5	44	3.6	0.4	0.1	69	0.68	0.141	7
992902	Soil	0.8	11.9	17.3	311	0.2	8.8	8.7	901	2.97	3.9	1.0	0.4	18	3.0	0.4	<0.1	60	0.27	0.078	4
992903	Soil	1.0	20.7	18.3	443	0.2	13.6	12.3	2166	3.06	6.8	1.3	0.5	28	2.7	0.4	0.4	53	0.45	0.147	6
992904	Soil	1.4	16.9	19.6	293	0.2	14.7	12.4	1271	3.75	12.5	0.5	0.5	23	1.6	0.5	0.2	67	0.38	0.071	5
992905	Soil	1.1	12.1	22.9	438	0.3	11.6	12.1	1823	3.62	11.2	0.9	0.7	21	1.7	0.4	0.3	65	0.33	0.164	5
992906	Soil	0.8	10.8	11.4	247	0.3	9.9	7.8	1932	2.88	5.3	0.6	0.4	23	1.8	0.5	0.2	57	0.36	0.063	5
992907	Soil	1.2	11.9	22.9	387	0.3	12.4	10.7	2314	3.56	8.3	0.6	0.4	19	3.7	0.4	0.2	69	0.25	0.116	6
992908	Soil	1.4	16.4	18.1	210	0.2	16.3	9.5	910	4.16	21.3	0.8	0.5	20	0.9	0.7	0.1	76	0.26	0.085	5
992909	Soil	1.1	10.3	15.3	260	0.2	11.1	8.0	1049	3.12	6.9	1.2	0.6	20	1.4	0.5	0.2	63	0.30	0.092	5
992910	Soil	1.1	15.6	18.8	308	0.4	13.2	10.4	1816	3.77	10.3	0.8	0.4	27	2.3	0.5	0.2	70	0.48	0.125	5
992911	Soil	1.4	32.7	21.1	161	0.2	25.7	12.1	928	4.19	25.3	1.2	1.0	24	0.7	0.7	0.2	71	0.34	0.073	6
992912	Soil	1.0	13.6	14.5	225	0.2	11.4	8.6	649	3.69	12.3	0.5	0.3	15	0.8	0.5	0.1	71	0.20	0.101	5
992913	Soil	1.4	22.4	27.2	456	0.2	16.6	12.7	3539	3.56	10.3	<0.5	0.6	30	3.2	0.4	0.3	64	0.51	0.194	6
993000	Soil	0.5	6.4	5.6	71	<0.1	8.6	4.6	748	1.82	2.3	1.0	0.3	18	0.3	0.3	0.2	40	0.14	0.031	6
993001	Soil	0.6	20.6	8.6	69	0.1	22.6	9.9	593	3.18	9.7	2.0	1.0	26	0.2	0.6	0.1	57	0.23	0.040	7
993002	Soil	0.8	17.0	7.9	71	0.1	22.3	8.5	803	2.77	8.8	1.4	0.6	38	0.3	0.5	0.1	52	0.43	0.053	6
993003	Soil	0.8	27.0	9.7	110	0.3	21.5	9.1	1502	2.63	6.0	1.7	<0.1	48	0.7	0.3	0.1	50	0.51	0.067	12
993004	Soil	0.9	15.2	14.8	226	0.2	17.2	10.4	1990	3.27	7.6	<0.5	0.3	37	1.0	0.5	<0.1	67	0.44	0.096	6
993005	Soil	0.9	13.3	15.2	251	0.2	12.8	9.5	1388	3.40	7.8	<0.5	0.5	26	1.2	0.4	0.1	67	0.33	0.075	8
993006	Soil	1.0	9.6	18.3	371	0.2	10.9	8.4	2628	2.82	5.0	0.8	0.4	23	3.9	0.4	0.1	55	0.32	0.085	5

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992891	Soil	19	0.43	208	0.040	<1	1.22	0.013	0.04	<0.1	0.03	4.5	<0.1	<0.05	4	0.8	<0.2
992892	Soil	16	0.31	363	0.026	<1	1.11	0.008	0.09	0.2	0.03	2.5	<0.1	<0.05	5	0.6	<0.2
992893	Soil	16	0.38	331	0.037	2	1.01	0.006	0.07	0.2	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
992894	Soil	15	0.35	423	0.032	3	1.06	0.008	0.11	0.2	0.06	2.6	<0.1	<0.05	5	<0.5	<0.2
992895	Soil	21	0.36	332	0.038	1	1.61	0.006	0.09	0.2	0.03	3.6	0.1	<0.05	7	<0.5	<0.2
992896	Soil	14	0.28	567	0.033	<1	1.07	0.006	0.08	0.2	0.05	2.6	0.1	<0.05	6	0.8	<0.2
992897	Soil	19	0.50	586	0.013	<1	1.81	0.012	0.11	0.1	0.16	8.4	<0.1	<0.05	5	2.3	<0.2
992898	Soil	18	0.39	159	0.049	<1	1.06	0.011	0.07	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
992899	Soil	18	0.40	146	0.043	<1	1.20	0.013	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
992900	Soil	37	0.87	734	0.017	<1	3.50	0.019	0.21	0.1	0.05	18.2	0.2	<0.05	8	1.8	<0.2
992901	Soil	21	0.42	428	0.044	2	1.23	0.007	0.09	0.2	0.03	5.1	<0.1	<0.05	5	0.5	<0.2
992902	Soil	14	0.24	221	0.039	<1	0.82	0.006	0.08	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
992903	Soil	17	0.35	480	0.035	5	1.14	0.006	0.10	0.2	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
992904	Soil	19	0.40	345	0.041	6	1.22	0.007	0.08	0.2	<0.01	3.9	<0.1	<0.05	5	0.6	<0.2
992905	Soil	18	0.31	387	0.040	4	1.50	0.007	0.08	0.3	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
992906	Soil	15	0.28	384	0.038	4	0.85	0.008	0.08	0.2	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
992907	Soil	19	0.33	527	0.033	3	1.21	0.006	0.09	0.2	<0.01	3.4	<0.1	<0.05	6	0.6	<0.2
992908	Soil	22	0.50	270	0.037	4	1.34	0.006	0.08	0.1	<0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
992909	Soil	17	0.36	284	0.043	3	1.01	0.006	0.10	0.2	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
992910	Soil	18	0.38	378	0.040	3	1.17	0.006	0.13	0.2	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
992911	Soil	23	0.57	268	0.038	4	1.76	0.008	0.09	0.1	0.02	6.2	0.1	<0.05	6	<0.5	<0.2
992912	Soil	18	0.36	292	0.025	3	1.20	0.006	0.07	0.1	<0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
992913	Soil	20	0.35	712	0.036	3	1.44	0.007	0.13	0.2	0.02	4.7	0.1	<0.05	6	<0.5	<0.2
993000	Soil	14	0.18	118	0.031	2	0.99	0.007	0.04	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
993001	Soil	24	0.62	118	0.054	2	1.59	0.008	0.11	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
993002	Soil	23	0.56	129	0.047	3	1.41	0.013	0.09	0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
993003	Soil	21	0.40	245	0.020	3	1.45	0.007	0.09	0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
993004	Soil	21	0.47	330	0.032	3	1.31	0.006	0.09	0.2	0.03	4.0	<0.1	<0.05	5	0.5	<0.2
993005	Soil	20	0.37	321	0.036	3	1.24	0.006	0.07	0.2	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
993006	Soil	16	0.32	625	0.035	3	0.95	0.006	0.10	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
993007	Soil	0.8	6.8	13.9	314	0.5	7.5	7.4	1544	2.67	4.1	<0.5	0.3	17	1.6	0.4	0.1	56	0.21	0.084	5
993008	Soil	1.0	12.4	15.1	298	0.5	13.6	9.1	722	3.83	11.7	1.3	0.3	20	1.2	0.4	0.1	73	0.26	0.125	6
993009	Soil	0.7	13.8	15.5	213	<0.1	19.4	9.6	1224	3.60	15.5	1.2	0.8	18	1.1	0.6	<0.1	65	0.25	0.152	5
993010	Soil	0.9	12.7	10.0	73	<0.1	16.7	7.1	506	2.99	10.5	<0.5	0.6	23	0.3	0.4	<0.1	58	0.34	0.032	5
993011	Soil	0.6	19.2	10.8	157	0.2	21.0	10.4	936	2.90	8.7	<0.5	0.6	27	0.9	0.4	<0.1	54	0.39	0.069	6
993012	Soil	1.0	15.2	19.8	355	0.2	17.0	10.4	1527	3.53	13.8	2.7	0.6	30	2.2	0.5	<0.1	64	0.45	0.108	5
993014	Soil	1.2	15.0	16.0	346	0.3	11.0	9.0	2473	2.87	7.3	<0.5	0.3	49	2.1	0.4	0.1	57	0.73	0.160	5
993050	Soil	0.5	14.2	8.2	63	<0.1	16.1	6.3	370	2.31	5.2	<0.5	0.7	26	<0.1	0.4	<0.1	45	0.25	0.046	7
993051	Soil	0.6	10.9	8.3	101	<0.1	16.4	7.4	675	2.63	8.4	<0.5	0.7	23	0.2	0.4	<0.1	53	0.21	0.045	5
993052	Soil	0.9	33.9	9.3	73	<0.1	24.5	11.3	848	3.28	13.0	1.5	1.5	47	0.1	0.7	<0.1	63	0.48	0.056	10
993053	Soil	0.4	69.1	11.4	51	0.6	51.1	7.9	110	1.79	6.3	2.6	1.8	61	0.4	0.2	0.2	42	0.54	0.152	29
993054	Soil	0.5	23.4	7.3	92	0.2	18.2	7.6	820	2.35	6.1	<0.5	0.7	36	0.3	0.3	<0.1	44	0.34	0.059	11
993055	Soil	0.5	10.4	7.7	90	<0.1	16.3	8.0	827	2.48	7.1	<0.5	0.8	26	0.2	0.4	<0.1	51	0.25	0.049	5
993056	Soil	0.8	38.4	8.5	268	0.5	24.8	11.4	1307	2.91	7.2	<0.5	0.9	63	1.7	0.5	<0.1	53	0.97	0.147	8
993057	Soil	0.7	26.9	7.9	111	0.2	26.4	9.6	867	2.91	7.9	<0.5	0.7	52	0.4	0.5	<0.1	51	0.60	0.105	10
993058	Soil	0.7	21.7	8.2	58	<0.1	21.8	8.5	590	2.95	11.5	0.6	1.3	33	<0.1	0.6	<0.1	55	0.35	0.046	8
993059	Soil	0.7	14.6	7.8	66	<0.1	20.3	10.0	667	2.86	10.1	<0.5	1.0	29	0.3	0.5	<0.1	56	0.31	0.035	6
993060	Soil	1.1	19.5	8.7	97	0.1	16.8	10.5	944	2.91	8.3	<0.5	0.9	31	0.9	0.4	<0.1	57	0.32	0.041	5
993061	Soil	1.1	26.4	18.8	156	0.2	20.3	11.6	1198	3.22	13.2	2.6	0.7	51	1.0	0.6	0.2	60	0.67	0.074	9
993062	Soil	0.7	35.3	17.6	143	0.2	22.4	11.7	1008	3.20	13.9	3.1	1.0	39	0.9	0.6	0.3	57	0.57	0.066	9
993063	Soil	1.1	34.0	27.7	308	0.2	21.1	12.9	2075	3.45	15.5	2.2	0.4	40	2.6	0.6	0.3	70	0.63	0.074	8
993064	Soil	0.9	30.5	22.9	258	0.4	17.3	13.0	1262	3.46	14.1	2.2	0.5	33	6.2	0.5	0.2	68	0.53	0.062	6
993065	Soil	1.0	21.4	34.9	262	0.5	13.2	13.6	1686	3.50	12.0	2.7	0.5	32	2.4	0.5	0.1	72	0.70	0.142	5
993066	Soil	0.9	30.9	30.2	300	0.5	18.8	12.6	1646	3.37	14.0	3.1	0.6	37	3.0	0.5	<0.1	65	0.72	0.084	8
993067	Soil	1.1	45.3	31.3	1488	0.7	11.6	16.3	7241	3.59	4.4	1.2	0.3	26	18.8	0.4	0.3	60	0.43	0.205	7
993068	Soil	0.7	15.2	15.3	283	0.2	12.6	8.8	1170	2.91	6.3	2.1	0.7	16	1.5	0.3	0.1	55	0.25	0.037	5
993069	Soil	1.0	11.4	14.0	167	0.2	6.4	6.7	798	2.57	5.1	<0.5	0.3	17	1.5	0.4	0.1	57	0.37	0.045	4
993070	Soil	1.0	16.2	16.1	314	0.3	6.5	9.1	2088	2.75	4.9	0.7	0.3	15	3.2	0.3	0.2	59	0.24	0.062	5
993071	Soil	1.3	12.5	15.1	271	<0.1	6.3	8.9	1902	2.46	4.8	1.3	0.2	22	2.8	0.3	0.1	53	0.44	0.086	4
993072	Soil	0.8	20.9	23.2	290	0.2	14.4	10.4	1706	3.47	10.6	2.3	0.5	42	1.6	0.4	0.1	65	0.81	0.062	4





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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993007	Soil	15	0.21	422	0.025	2	1.00	0.006	0.06	0.1	0.02	2.4	0.1	<0.05	5	0.6	<0.2
993008	Soil	20	0.40	317	0.033	3	1.48	0.011	0.09	0.2	0.03	3.5	0.1	<0.05	7	<0.5	<0.2
993009	Soil	20	0.52	329	0.040	2	1.30	0.006	0.07	0.1	<0.01	4.5	<0.1	<0.05	5	0.5	<0.2
993010	Soil	18	0.43	195	0.038	2	1.14	0.007	0.06	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
993011	Soil	21	0.46	260	0.039	2	1.27	0.012	0.08	0.1	0.04	4.2	<0.1	<0.05	5	0.6	<0.2
993012	Soil	20	0.50	450	0.036	3	1.46	0.007	0.07	0.1	0.03	4.4	0.1	<0.05	6	0.5	<0.2
993014	Soil	16	0.32	614	0.039	7	1.04	0.010	0.17	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
993050	Soil	18	0.45	139	0.043	2	1.22	0.011	0.06	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
993051	Soil	18	0.36	203	0.038	3	1.26	0.009	0.07	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
993052	Soil	27	0.62	196	0.046	3	1.70	0.031	0.09	<0.1	0.05	7.5	<0.1	<0.05	5	0.5	<0.2
993053	Soil	34	0.38	640	0.003	1	4.65	0.019	0.16	<0.1	0.06	18.1	0.2	<0.05	11	1.0	<0.2
993054	Soil	19	0.41	201	0.033	2	1.38	0.008	0.09	<0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
993055	Soil	18	0.36	181	0.049	2	1.25	0.008	0.11	0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
993056	Soil	24	0.46	493	0.026	6	1.61	0.011	0.24	0.1	0.04	6.9	<0.1	<0.05	5	0.8	<0.2
993057	Soil	25	0.56	220	0.026	3	1.69	0.013	0.15	<0.1	0.05	6.8	<0.1	<0.05	5	0.5	<0.2
993058	Soil	25	0.51	135	0.057	3	1.37	0.011	0.11	<0.1	0.03	5.9	<0.1	<0.05	4	0.5	<0.2
993059	Soil	21	0.46	165	0.056	3	1.40	0.010	0.12	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
993060	Soil	21	0.41	167	0.044	2	1.31	0.008	0.10	<0.1	0.02	4.4	<0.1	<0.05	4	0.5	<0.2
993061	Soil	21	0.57	280	0.028	5	1.37	0.018	0.07	0.1	0.04	6.2	0.1	<0.05	4	<0.5	<0.2
993062	Soil	21	0.56	513	0.034	4	1.37	0.011	0.11	0.1	0.05	6.4	0.1	<0.05	5	<0.5	<0.2
993063	Soil	22	0.47	533	0.035	4	1.40	0.008	0.08	0.1	0.06	5.5	0.1	<0.05	5	<0.5	<0.2
993064	Soil	19	0.48	649	0.029	4	1.19	0.008	0.07	0.2	0.03	4.8	<0.1	<0.05	4	<0.5	<0.2
993065	Soil	19	0.44	739	0.030	5	1.02	0.008	0.08	0.2	0.05	4.8	0.2	<0.05	4	<0.5	<0.2
993066	Soil	20	0.52	734	0.035	6	1.17	0.014	0.09	0.1	0.07	7.5	0.2	<0.05	4	<0.5	<0.2
993067	Soil	18	0.21	1804	0.034	5	1.22	0.005	0.11	0.2	0.05	4.1	0.1	<0.05	6	<0.5	<0.2
993068	Soil	17	0.37	451	0.036	3	1.13	0.006	0.06	0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
993069	Soil	13	0.17	257	0.035	5	0.58	0.005	0.07	0.2	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
993070	Soil	14	0.18	401	0.034	4	0.78	0.005	0.06	0.2	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
993071	Soil	13	0.18	412	0.026	4	0.70	0.004	0.07	0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
993072	Soil	18	0.45	709	0.030	4	1.41	0.010	0.06	<0.1	0.03	4.7	0.1	<0.05	4	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
993073	Soil	1.0	29.9	24.4	297	0.2	18.8	11.6	2858	3.24	14.6	0.9	0.4	40	4.4	0.5	0.1	63	0.83	0.082	6
993074	Soil	0.8	26.4	19.2	101	0.4	16.5	8.6	833	3.08	11.9	26.8	1.0	44	0.9	0.4	0.2	54	0.85	0.046	11
993075	Soil	1.1	13.5	19.8	334	0.2	13.9	9.0	1609	3.30	12.2	<0.5	0.7	23	1.9	0.5	0.1	69	0.38	0.131	5
993100	Soil	1.2	6.8	15.3	268	0.2	8.6	7.0	1247	2.83	4.5	0.8	0.7	15	1.6	0.4	0.1	60	0.28	0.042	5
993101	Soil	1.3	11.3	20.3	322	0.2	11.0	9.6	2262	3.10	7.0	0.9	0.4	25	1.9	0.4	0.1	65	0.39	0.095	5
993102	Soil	1.4	14.7	28.4	495	0.3	11.5	12.5	5515	3.00	6.3	1.1	0.3	28	4.9	0.4	0.2	55	0.50	0.111	4
993103	Soil	1.3	11.0	13.7	177	0.2	8.8	7.3	1532	2.92	6.2	3.4	0.4	14	1.2	0.4	0.1	65	0.25	0.048	5
993104	Soil	0.7	8.0	20.5	346	0.2	12.4	8.9	1123	3.37	8.6	<0.5	0.6	23	1.8	0.4	0.1	69	0.37	0.133	5
993105	Soil	0.9	6.5	16.6	294	0.3	11.3	8.8	2140	3.17	6.4	<0.5	0.4	15	1.4	0.4	0.1	62	0.23	0.074	5
993106	Soil	0.8	7.3	14.9	389	0.2	10.7	8.2	1757	2.88	6.6	<0.5	0.5	24	1.9	0.4	0.1	59	0.45	0.057	4
993107	Soil	2.2	11.5	21.7	690	0.3	9.6	11.7	7869	3.08	3.4	1.7	0.5	29	7.6	0.3	0.3	52	0.56	0.226	7
993108	Soil	1.3	9.7	17.2	384	0.2	9.4	8.7	2645	2.75	4.6	1.0	0.4	21	3.6	0.4	0.2	53	0.36	0.097	5
993110	Soil	0.6	13.2	7.0	105	0.1	18.1	8.4	1587	2.63	6.4	12.3	0.2	30	0.3	0.4	<0.1	53	0.34	0.064	6
993111	Soil	0.9	52.8	10.4	144	0.5	39.1	13.7	1517	3.58	9.0	2.4	0.9	49	0.3	0.3	0.1	59	0.42	0.121	15
993112	Soil	0.7	12.3	6.0	87	<0.1	18.4	7.2	626	2.34	5.3	<0.5	0.5	26	0.2	0.3	<0.1	47	0.27	0.041	6
993113	Soil	0.5	9.9	4.8	88	0.1	13.7	6.7	847	1.90	2.7	1.6	0.4	22	0.1	0.3	<0.1	39	0.21	0.023	6
993114	Soil	0.6	10.9	5.8	89	0.1	14.2	5.4	349	2.04	3.6	0.6	0.5	16	0.1	0.2	<0.1	42	0.13	0.025	6
993115	Soil	0.9	10.6	20.2	249	0.3	12.3	10.4	1595	3.33	11.9	3.4	0.3	26	0.8	0.5	0.1	69	0.32	0.099	5
993116	Soil	0.9	8.2	14.4	173	0.2	7.8	6.3	878	2.72	7.5	1.2	0.4	16	1.0	0.3	0.2	56	0.16	0.111	5
993117	Soil	0.7	8.3	15.4	288	0.4	10.0	6.7	1211	2.87	6.9	22.5	0.3	18	1.6	0.4	0.2	59	0.22	0.136	5
993118	Soil	0.9	18.5	20.0	250	0.3	17.6	9.9	761	3.72	13.5	<0.5	0.5	24	0.8	0.5	0.1	72	0.28	0.132	6
993119	Soil	1.0	28.9	16.6	174	0.3	25.6	10.3	1130	3.54	11.5	1.1	0.8	32	0.8	0.6	0.1	62	0.36	0.077	8
993120	Soil	0.9	12.5	16.1	185	<0.1	8.7	7.5	975	2.55	5.4	1.1	0.5	24	1.8	0.5	0.1	54	0.27	0.088	6
993121	Soil	0.9	11.9	20.0	209	0.2	8.8	8.0	1279	2.73	7.4	1.4	0.5	34	3.4	0.4	0.1	58	0.46	0.062	5
993122	Soil	0.9	11.6	21.0	251	0.1	11.9	7.7	1451	3.17	11.6	1.6	0.4	13	0.8	0.4	0.2	61	0.16	0.128	5
993124	Soil	0.9	5.9	13.2	186	0.2	6.4	7.3	1380	2.58	3.2	0.8	0.4	27	1.8	0.3	0.3	53	0.35	0.099	5
993125	Soil	1.2	7.6	12.7	105	0.2	5.9	6.6	1883	1.70	3.0	0.8	<0.1	46	1.4	0.3	0.2	40	0.81	0.068	4
993126	Soil	0.6	27.0	8.7	65	<0.1	22.5	9.7	533	3.08	11.0	2.8	1.2	27	<0.1	0.6	0.1	55	0.23	0.033	7
993127	Soil	0.5	9.0	5.7	61	<0.1	14.8	7.0	546	2.22	6.2	0.9	0.2	28	0.3	0.3	0.1	48	0.31	0.037	4
993128	Soil	0.7	25.0	9.7	91	<0.1	21.6	10.1	797	2.78	11.0	1.6	0.8	43	0.6	0.5	0.1	50	0.64	0.066	6

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Project: ZNT  
 Report Date: November 07, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993073	Soil	19	0.41	634	0.035	5	1.22	0.007	0.07	0.2	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2
993074	Soil	26	0.47	588	0.031	3	1.26	0.015	0.12	0.2	0.07	9.2	0.1	<0.05	5	0.6	<0.2
993075	Soil	19	0.40	532	0.035	3	1.26	0.006	0.10	0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
993100	Soil	16	0.23	326	0.047	4	0.84	0.006	0.08	0.2	0.02	2.7	0.1	<0.05	5	<0.5	<0.2
993101	Soil	17	0.32	437	0.041	4	1.10	0.008	0.10	0.2	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
993102	Soil	16	0.31	699	0.039	4	0.95	0.006	0.13	0.2	0.04	3.1	0.1	<0.05	5	<0.5	<0.2
993103	Soil	16	0.24	296	0.036	2	0.80	0.005	0.09	0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
993104	Soil	19	0.38	428	0.033	3	1.27	0.009	0.10	0.2	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
993105	Soil	17	0.30	392	0.034	2	1.05	0.005	0.07	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
993106	Soil	17	0.31	433	0.039	3	1.01	0.005	0.09	0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
993107	Soil	16	0.20	1087	0.040	4	1.25	0.007	0.14	0.2	0.04	4.1	0.1	<0.05	6	<0.5	<0.2
993108	Soil	15	0.26	559	0.040	3	0.87	0.005	0.09	0.2	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
993110	Soil	19	0.40	208	0.030	3	1.17	0.006	0.08	0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
993111	Soil	33	0.70	358	0.007	2	3.52	0.012	0.16	<0.1	0.10	8.9	0.1	<0.05	9	0.6	<0.2
993112	Soil	19	0.44	151	0.037	2	1.19	0.006	0.07	0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
993113	Soil	15	0.36	119	0.036	3	1.14	0.006	0.06	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
993114	Soil	17	0.39	100	0.036	2	1.22	0.008	0.04	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
993115	Soil	17	0.34	254	0.028	1	1.27	0.005	0.07	0.2	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
993116	Soil	15	0.20	196	0.020	1	1.23	0.005	0.06	0.2	0.02	3.1	0.1	<0.05	6	<0.5	<0.2
993117	Soil	16	0.27	284	0.022	3	1.36	0.006	0.06	0.2	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
993118	Soil	22	0.49	274	0.024	2	1.65	0.006	0.09	0.2	0.02	4.5	<0.1	<0.05	7	<0.5	<0.2
993119	Soil	26	0.60	357	0.021	2	2.08	0.008	0.14	0.1	0.03	6.7	<0.1	<0.05	6	<0.5	<0.2
993120	Soil	15	0.23	293	0.031	2	0.90	0.006	0.06	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
993121	Soil	14	0.21	420	0.031	2	0.83	0.015	0.11	0.2	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
993122	Soil	17	0.29	295	0.020	4	1.25	0.007	0.05	0.2	0.05	3.0	0.1	<0.05	6	0.6	<0.2
993124	Soil	13	0.18	326	0.032	4	0.70	0.005	0.13	0.2	0.02	2.1	<0.1	<0.05	4	0.6	<0.2
993125	Soil	10	0.14	309	0.022	5	0.44	0.005	0.09	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
993126	Soil	24	0.56	137	0.038	3	1.48	0.008	0.08	0.1	0.03	5.4	<0.1	<0.05	5	<0.5	<0.2
993127	Soil	17	0.37	126	0.030	<1	1.04	0.005	0.06	0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
993128	Soil	21	0.56	137	0.032	3	1.27	0.012	0.10	0.1	0.04	4.8	<0.1	<0.05	4	<0.5	<0.2

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Project: ZNT  
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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.001	1	
993129	Soil		0.8	29.0	11.0	91	0.1	25.0	11.5	822	3.37	15.0	2.2	1.3	35	0.3	0.6	0.1	59	0.44	0.059	8
993130	Soil		0.8	35.4	19.4	206	0.4	20.0	11.4	1167	3.34	13.8	0.9	0.8	38	2.4	0.6	<0.1	60	0.61	0.079	9
993131	Soil		0.7	27.8	16.4	140	0.2	19.2	10.7	889	3.36	13.3	1.4	0.9	34	0.8	0.6	<0.1	65	0.49	0.062	7
993132	Soil		0.8	36.4	19.9	182	0.2	22.0	12.4	1216	3.62	14.8	0.8	0.9	44	1.2	0.7	<0.1	65	0.79	0.076	8
993135	Soil		0.8	31.9	18.9	164	0.2	22.2	12.4	1143	3.53	14.6	68.7	0.9	36	0.9	0.6	<0.1	65	0.58	0.063	8
993136	Soil		1.0	21.6	47.2	181	0.4	12.6	7.5	839	2.59	10.4	2.1	0.3	37	1.3	0.5	0.1	52	1.02	0.067	5
993150	Soil		0.5	15.6	7.7	57	<0.1	18.3	7.6	447	2.66	9.7	1.3	0.9	27	0.2	0.4	<0.1	53	0.28	0.046	6
993151	Soil		0.9	68.3	10.0	122	0.6	45.3	13.1	1158	3.51	10.6	3.6	1.1	64	1.2	0.6	<0.1	59	0.73	0.078	19
993152	Soil		0.5	15.6	6.9	99	0.1	16.0	8.3	591	2.39	6.6	1.4	0.7	29	0.3	0.4	<0.1	45	0.31	0.052	6
993153	Soil		0.4	7.8	5.4	117	<0.1	12.5	6.7	438	2.16	4.9	1.7	0.6	23	0.3	0.3	<0.1	42	0.27	0.086	5
993154	Soil		0.4	10.7	6.2	76	<0.1	12.3	6.0	344	1.92	4.4	<0.5	0.6	25	0.2	0.3	<0.1	38	0.28	0.049	5
993155	Soil		0.8	61.2	9.5	127	0.5	35.7	9.2	625	3.21	10.7	1.7	1.0	57	1.0	0.7	0.2	57	0.72	0.063	14
993156	Soil		0.5	16.4	8.0	186	<0.1	14.2	9.8	851	2.40	6.4	0.7	0.6	40	1.0	0.4	<0.1	46	0.44	0.082	5
993157	Soil		1.2	33.2	9.1	138	0.3	31.4	19.6	1417	2.83	7.5	0.6	0.6	58	0.9	0.5	0.2	61	0.65	0.112	9
993158	Soil		0.4	7.7	6.1	44	<0.1	6.7	4.5	870	1.03	2.0	1.6	0.3	18	<0.1	0.1	0.2	19	0.18	0.048	5
993159	Soil		0.5	13.5	7.1	62	<0.1	15.9	7.7	432	2.53	8.5	1.1	0.8	22	0.1	0.4	<0.1	49	0.19	0.041	5
993160	Soil		0.5	8.6	6.5	140	<0.1	13.5	5.8	489	2.06	4.3	<0.5	0.6	25	0.2	0.3	<0.1	41	0.25	0.066	4
993161	Soil		0.4	15.4	7.4	126	<0.1	16.5	9.8	650	2.72	6.7	0.7	0.8	31	0.3	0.5	<0.1	52	0.28	0.070	6
993162	Soil		0.4	13.2	6.4	53	<0.1	18.2	7.6	531	2.00	4.6	2.4	0.9	25	<0.1	0.3	<0.1	42	0.26	0.049	6
993163	Soil		0.5	12.2	6.1	89	<0.1	15.6	8.4	576	2.13	5.3	0.8	0.4	37	0.2	0.3	<0.1	43	0.30	0.038	5
993164	Soil		0.4	12.7	6.5	71	0.1	18.7	8.3	546	2.64	6.7	0.5	0.7	28	0.2	0.4	<0.1	54	0.27	0.026	5
993165	Soil		0.6	14.3	7.3	69	<0.1	17.4	9.4	668	2.59	7.9	<0.5	0.7	30	<0.1	0.4	<0.1	54	0.22	0.026	5
993166	Soil		0.5	16.1	5.6	82	<0.1	18.5	7.4	544	2.23	5.2	<0.5	0.7	22	<0.1	0.3	<0.1	47	0.19	0.038	6
993167	Soil		0.8	22.7	7.2	84	<0.1	21.4	8.8	713	2.66	9.9	1.0	0.7	32	0.1	0.4	<0.1	54	0.29	0.042	8
993168	Soil		0.7	9.6	5.1	53	<0.1	13.9	7.1	327	2.40	6.4	<0.5	0.7	24	<0.1	0.3	<0.1	56	0.16	0.012	5
993169	Soil		0.7	12.0	6.3	81	0.1	16.2	8.1	584	2.35	6.7	<0.5	0.5	27	0.2	0.4	<0.1	50	0.24	0.035	5
993170	Soil		0.5	14.1	5.7	65	<0.1	17.8	8.2	721	2.63	6.9	0.6	0.5	26	0.1	0.4	<0.1	52	0.21	0.042	6
993171	Soil		0.6	15.0	6.5	79	0.1	17.9	8.0	657	2.46	5.7	<0.5	0.6	30	0.2	0.3	<0.1	51	0.29	0.037	7
993172	Soil		0.7	17.7	6.4	64	0.2	16.3	8.1	735	2.23	5.5	0.6	0.5	30	<0.1	0.2	<0.1	51	0.29	0.036	9
993174	Soil		1.1	26.8	9.9	83	0.1	25.8	14.7	1550	3.19	10.7	1.4	1.0	39	0.1	0.6	<0.1	62	0.37	0.067	7

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993129	Soil	24	0.61	146	0.044	4	1.52	0.013	0.12	0.1	0.05	6.6	<0.1	<0.05	5	<0.5	<0.2
993130	Soil	19	0.57	527	0.025	4	1.26	0.009	0.14	<0.1	0.06	7.5	0.1	<0.05	4	0.7	<0.2
993131	Soil	20	0.56	504	0.038	3	1.22	0.012	0.06	0.1	0.03	6.0	0.1	<0.05	4	<0.5	<0.2
993132	Soil	23	0.57	640	0.036	2	1.25	0.012	0.09	0.1	0.08	7.3	0.1	<0.05	4	0.5	<0.2
993135	Soil	22	0.56	566	0.037	4	1.27	0.012	0.07	0.1	0.04	6.5	0.1	<0.05	4	0.8	<0.2
993136	Soil	16	0.28	379	0.029	3	0.99	0.008	0.06	0.2	0.09	4.0	0.2	<0.05	4	0.8	<0.2
993150	Soil	20	0.50	100	0.050	3	1.16	0.010	0.06	<0.1	0.04	4.4	<0.1	<0.05	4	0.7	<0.2
993151	Soil	34	0.69	412	0.015	5	2.52	0.011	0.19	0.1	0.07	11.9	0.1	<0.05	7	1.4	<0.2
993152	Soil	18	0.40	161	0.037	1	1.05	0.007	0.08	0.1	0.02	3.8	<0.1	<0.05	4	0.6	<0.2
993153	Soil	15	0.30	131	0.040	2	0.93	0.005	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
993154	Soil	13	0.29	123	0.042	2	0.79	0.006	0.06	<0.1	0.03	2.5	<0.1	<0.05	3	0.5	<0.2
993155	Soil	28	0.56	345	0.015	2	1.93	0.010	0.13	0.1	0.04	9.1	<0.1	<0.05	6	0.7	<0.2
993156	Soil	17	0.34	244	0.033	3	1.08	0.007	0.07	0.1	0.04	3.0	<0.1	<0.05	4	0.6	<0.2
993157	Soil	30	0.58	266	0.014	2	2.18	0.010	0.16	0.1	0.06	7.1	<0.1	<0.05	6	0.6	<0.2
993158	Soil	12	0.14	86	0.032	<1	0.56	0.005	0.07	<0.1	0.01	2.1	<0.1	<0.05	2	0.7	<0.2
993159	Soil	18	0.39	103	0.046	<1	1.10	0.007	0.05	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
993160	Soil	15	0.30	120	0.032	<1	1.02	0.006	0.05	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
993161	Soil	19	0.43	132	0.056	<1	1.16	0.007	0.08	<0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
993162	Soil	19	0.45	94	0.059	<1	1.22	0.011	0.07	<0.1	0.02	3.6	<0.1	<0.05	4	0.8	<0.2
993163	Soil	18	0.38	140	0.033	2	1.09	0.009	0.06	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
993164	Soil	19	0.40	125	0.042	<1	1.21	0.006	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
993165	Soil	19	0.39	117	0.044	<1	1.17	0.006	0.06	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
993166	Soil	20	0.41	137	0.030	<1	1.41	0.008	0.05	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
993167	Soil	24	0.46	162	0.032	<1	1.47	0.008	0.07	<0.1	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
993168	Soil	17	0.32	125	0.050	<1	1.08	0.008	0.03	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
993169	Soil	18	0.37	131	0.038	<1	1.14	0.006	0.05	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
993170	Soil	20	0.41	118	0.052	<1	1.17	0.007	0.06	0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
993171	Soil	22	0.37	165	0.030	<1	1.50	0.008	0.05	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2
993172	Soil	20	0.36	131	0.033	<1	1.32	0.008	0.06	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
993174	Soil	28	0.59	153	0.032	1	1.54	0.012	0.08	<0.1	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2

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



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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000517.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
993175	Soil	0.6	12.8	6.3	75	0.1	19.1	8.6	894	2.42	4.8	1.9	0.5	22	0.1	0.3	0.1	52	0.19	0.034	6
993176	Soil	0.8	26.7	7.3	95	0.2	25.3	9.4	954	2.79	6.8	2.4	0.7	29	0.2	0.3	0.1	60	0.28	0.055	10
993177	Soil	0.9	32.9	8.4	114	0.4	32.3	10.3	905	3.13	7.7	1.2	0.7	44	0.3	0.4	0.1	65	0.47	0.077	12
993178	Soil	0.5	13.4	7.1	72	0.2	18.4	8.4	725	2.67	8.0	0.9	0.6	35	0.2	0.3	0.1	64	0.33	0.029	4
993179	Soil	1.1	17.2	7.3	37	0.1	20.4	10.8	295	2.69	7.2	1.6	0.8	42	0.1	0.3	0.1	68	0.38	0.025	4
993180	Soil	0.6	34.5	8.0	150	0.2	26.4	9.8	1156	2.87	6.8	1.4	0.5	38	0.6	0.4	0.1	62	0.38	0.098	11
993181	Soil	0.6	13.4	6.8	101	<0.1	22.7	9.2	514	3.00	9.0	2.2	0.9	26	0.3	0.5	<0.1	72	0.26	0.060	5
993183	Soil	0.5	15.1	7.5	63	<0.1	19.2	7.8	496	2.35	6.2	2.9	0.7	29	0.2	0.2	<0.1	55	0.34	0.046	7
993185	Soil	0.7	10.9	7.0	105	<0.1	15.5	7.8	420	2.71	9.4	1.0	0.7	28	0.3	0.3	<0.1	64	0.26	0.062	5
993186	Soil	0.8	17.5	8.4	125	0.1	16.3	9.4	617	2.67	7.4	1.4	0.7	33	0.9	0.3	0.1	62	0.32	0.068	6
993187	Soil	0.7	20.4	8.4	108	0.1	21.8	11.2	703	3.16	10.8	1.9	1.1	42	0.4	0.5	0.1	71	0.48	0.079	6
993188	Soil	0.5	20.9	9.8	134	0.1	20.3	9.2	717	2.85	7.3	1.0	1.0	30	0.3	0.3	0.1	65	0.40	0.047	7
993189	Soil	0.6	14.6	7.0	190	0.1	16.0	8.9	750	2.53	5.3	<0.5	0.7	23	0.8	0.3	0.1	59	0.34	0.037	6



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CERTIFICATE OF ANALYSIS

SMI12000517.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993175	Soil	20	0.38	180	0.030	1	1.37	0.009	0.04	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
993176	Soil	25	0.47	241	0.021	1	1.67	0.009	0.07	<0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
993177	Soil	31	0.60	242	0.022	2	2.00	0.011	0.12	0.1	0.05	6.7	<0.1	<0.05	6	<0.5	<0.2
993178	Soil	21	0.42	150	0.035	2	1.21	0.008	0.06	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
993179	Soil	26	0.58	136	0.014	1	1.68	0.017	0.04	<0.1	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
993180	Soil	27	0.52	255	0.027	2	1.68	0.009	0.10	0.1	0.05	5.7	<0.1	<0.05	5	<0.5	<0.2
993181	Soil	23	0.48	142	0.048	1	1.44	0.010	0.05	0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
993183	Soil	21	0.49	118	0.042	2	1.19	0.009	0.06	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
993185	Soil	19	0.38	153	0.045	2	1.14	0.008	0.06	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
993186	Soil	21	0.37	222	0.038	2	1.18	0.008	0.05	0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
993187	Soil	26	0.55	173	0.060	2	1.47	0.013	0.09	0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
993188	Soil	24	0.49	181	0.046	2	1.33	0.012	0.08	0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2
993189	Soil	19	0.36	200	0.056	2	1.04	0.008	0.08	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2





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# QUALITY CONTROL REPORT

SMI12000517.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992639	Soil	0.6	23.0	10.2	93	0.1	22.4	11.1	945	2.95	10.7	<0.5	1.0	51	0.4	0.6	<0.1	55	0.53	0.064	8
REP 992639	QC	0.7	22.7	10.3	94	0.1	23.1	11.7	944	3.02	11.0	1.2	1.1	49	0.4	0.5	<0.1	55	0.53	0.064	8
992640	Soil	0.5	15.8	8.9	198	<0.1	21.7	10.1	1287	2.84	7.1	<0.5	1.0	45	0.4	0.4	<0.1	53	0.45	0.143	7
REP 992640	QC	0.6	17.1	9.1	205	0.1	23.4	10.5	1287	2.95	7.0	3.8	1.0	45	0.4	0.4	<0.1	53	0.46	0.140	7
992842	Soil	0.5	15.5	6.1	81	0.2	18.6	5.8	306	2.25	4.4	1.5	0.6	21	0.3	0.3	<0.1	43	0.24	0.050	7
REP 992842	QC	0.5	14.9	5.6	75	0.2	16.5	5.6	298	2.17	4.8	3.8	0.6	21	0.2	0.3	<0.1	41	0.21	0.048	7
992887	Soil	0.7	17.3	12.4	81	<0.1	20.2	9.2	522	3.26	12.6	3.2	1.0	18	0.3	0.5	<0.1	59	0.21	0.018	4
REP 992887	QC	0.8	15.7	11.5	73	<0.1	19.1	8.6	493	3.03	13.2	2.1	0.9	17	0.2	0.5	<0.1	57	0.20	0.017	4
993009	Soil	0.7	13.8	15.5	213	<0.1	19.4	9.6	1224	3.60	15.5	1.2	0.8	18	1.1	0.6	<0.1	65	0.25	0.152	5
REP 993009	QC	0.7	13.5	14.5	208	<0.1	18.6	9.0	1221	3.54	14.6	<0.5	0.8	17	1.2	0.6	<0.1	65	0.25	0.147	5
993010	Soil	0.9	12.7	10.0	73	<0.1	16.7	7.1	506	2.99	10.5	<0.5	0.6	23	0.3	0.4	<0.1	58	0.34	0.032	5
REP 993010	QC	0.8	12.9	10.3	77	<0.1	17.1	7.0	507	2.98	10.5	1.4	0.6	23	0.3	0.4	<0.1	57	0.35	0.031	4
993105	Soil	0.9	6.5	16.6	294	0.3	11.3	8.8	2140	3.17	6.4	<0.5	0.4	15	1.4	0.4	0.1	62	0.23	0.074	5
REP 993105	QC	0.9	6.2	16.8	295	0.3	10.7	8.4	2109	3.22	6.4	<0.5	0.4	16	1.4	0.4	0.1	65	0.24	0.075	5
993106	Soil	0.8	7.3	14.9	389	0.2	10.7	8.2	1757	2.88	6.6	<0.5	0.5	24	1.9	0.4	0.1	59	0.45	0.057	4
REP 993106	QC	0.7	7.2	14.0	375	0.2	10.4	8.2	1712	2.93	6.3	0.6	0.4	23	1.7	0.4	<0.1	58	0.46	0.053	4
993158	Soil	0.4	7.7	6.1	44	<0.1	6.7	4.5	870	1.03	2.0	1.6	0.3	18	<0.1	0.1	0.2	19	0.18	0.048	5
REP 993158	QC	0.2	6.0	6.2	40	<0.1	5.6	4.0	752	0.87	1.9	<0.5	0.3	18	0.2	0.1	0.1	18	0.17	0.044	5
993159	Soil	0.5	13.5	7.1	62	<0.1	15.9	7.7	432	2.53	8.5	1.1	0.8	22	0.1	0.4	<0.1	49	0.19	0.041	5
REP 993159	QC	0.5	14.5	7.4	65	<0.1	16.8	7.9	441	2.61	8.8	2.1	0.8	24	0.1	0.4	<0.1	52	0.19	0.044	5
993189	Soil	0.6	14.6	7.0	190	0.1	16.0	8.9	750	2.53	5.3	<0.5	0.7	23	0.8	0.3	0.1	59	0.34	0.037	6
REP 993189	QC	0.5	15.0	6.9	193	0.1	15.6	8.8	758	2.58	5.1	0.7	0.7	23	0.7	0.3	0.1	59	0.34	0.036	6
Reference Materials																					
STD DS9	Standard	13.5	109.8	130.5	296	1.9	40.6	7.6	586	2.32	26.1	123.0	7.1	73	2.2	6.0	6.3	42	0.73	0.081	14
STD DS9	Standard	13.6	98.9	132.2	315	2.0	36.6	7.5	545	2.33	25.5	116.2	7.4	80	2.2	6.0	6.0	42	0.72	0.087	14
STD DS9	Standard	13.4	111.9	130.0	302	1.8	38.3	7.4	590	2.36	26.2	126.3	6.7	75	2.2	5.8	6.2	41	0.74	0.080	15
STD DS9	Standard	12.2	102.6	126.4	284	1.6	36.8	6.7	523	2.06	24.5	102.2	6.2	64	2.0	5.5	5.7	38	0.66	0.074	12
STD DS9	Standard	14.9	118.5	141.1	331	1.8	44.1	8.4	623	2.51	26.6	121.8	7.1	71	2.4	5.5	6.2	59	0.76	0.084	14



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Project: ZNT  
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QUALITY CONTROL REPORT

SMI12000517.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992639	Soil	22	0.50	231	0.052	<1	1.45	0.014	0.21	0.1	0.02	6.1	<0.1	<0.05	5	<0.5	<0.2
REP 992639	QC	23	0.52	232	0.052	3	1.53	0.010	0.21	<0.1	0.02	6.1	<0.1	<0.05	5	<0.5	<0.2
992640	Soil	20	0.39	296	0.048	3	1.50	0.012	0.11	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
REP 992640	QC	21	0.39	297	0.048	2	1.54	0.019	0.11	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
992842	Soil	17	0.45	128	0.034	<1	1.28	0.012	0.05	<0.1	0.03	3.7	<0.1	<0.05	4	0.8	<0.2
REP 992842	QC	17	0.44	123	0.034	<1	1.26	0.008	0.05	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
992887	Soil	20	0.52	207	0.048	<1	1.25	0.009	0.04	<0.1	0.03	5.1	<0.1	<0.05	4	0.6	<0.2
REP 992887	QC	18	0.49	181	0.045	<1	1.17	0.009	0.04	0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2
993009	Soil	20	0.52	329	0.040	2	1.30	0.006	0.07	0.1	<0.01	4.5	<0.1	<0.05	5	0.5	<0.2
REP 993009	QC	21	0.51	326	0.042	2	1.30	0.008	0.07	0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
993010	Soil	18	0.43	195	0.038	2	1.14	0.007	0.06	0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
REP 993010	QC	18	0.41	196	0.037	2	1.09	0.007	0.06	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
993105	Soil	17	0.30	392	0.034	2	1.05	0.005	0.07	0.2	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 993105	QC	17	0.31	394	0.036	3	1.08	0.005	0.08	0.2	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
993106	Soil	17	0.31	433	0.039	3	1.01	0.005	0.09	0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
REP 993106	QC	16	0.32	431	0.043	3	0.92	0.006	0.09	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
993158	Soil	12	0.14	86	0.032	<1	0.56	0.005	0.07	<0.1	0.01	2.1	<0.1	<0.05	2	0.7	<0.2
REP 993158	QC	9	0.13	79	0.035	<1	0.53	0.005	0.06	<0.1	0.02	1.9	<0.1	<0.05	2	0.5	<0.2
993159	Soil	18	0.39	103	0.046	<1	1.10	0.007	0.05	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
REP 993159	QC	20	0.45	107	0.048	<1	1.18	0.013	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
993189	Soil	19	0.36	200	0.056	2	1.04	0.008	0.08	0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
REP 993189	QC	19	0.36	198	0.053	2	1.03	0.008	0.08	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	123	0.63	312	0.117	7	0.94	0.088	0.42	3.0	0.17	2.8	5.7	0.12	5	5.5	4.9
STD DS9	Standard	114	0.64	310	0.112	1	0.96	0.088	0.40	3.1	0.19	3.2	5.6	0.12	5	4.9	4.8
STD DS9	Standard	119	0.61	305	0.112	3	0.93	0.092	0.40	3.0	0.20	3.0	5.5	0.12	5	4.6	5.6
STD DS9	Standard	111	0.57	277	0.104	2	0.86	0.076	0.37	3.1	0.20	2.5	5.2	0.09	4	5.7	4.6
STD DS9	Standard	132	0.66	323	0.117	3	0.97	0.091	0.41	3.1	0.18	2.8	5.7	0.15	5	5.8	4.8

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Project: ZNT

Report Date: November 07, 2012

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Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000517.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD DS9	Standard	12.1	107.4	127.2	310	1.7	40.7	7.0	571	2.31	24.5	116.1	6.4	73	2.5	5.6	6.0	39	0.71	0.081	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	8	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT

Report Date: November 07, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000517.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS9	Standard	116	0.62	304	0.110	<1	0.92	0.082	0.41	3.1	0.21	2.4	5.5	0.06	5	5.6	4.6
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	2	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 29, 2012

Report Date: November 08, 2012

Page: 1 of 7

# CERTIFICATE OF ANALYSIS

# SMI12000521.1

## CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-1-\_201210  
P.O. Number: QZM-ZNT-10  
Number of Samples: 161

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	161	Dry at 60C			SMI
SS80	161	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	160	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

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

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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Project: ZNT  
 Report Date: November 08, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
992914	Soil	0.9	25.7	8.9	146	0.2	17.9	12.2	1031	2.82	6.6	2.2	0.4	35	2.0	0.5	0.3	48	0.45	0.047	6
992915	Soil	0.9	35.6	11.1	149	0.3	26.6	11.8	1006	3.43	12.4	2.5	0.5	42	1.9	0.5	0.2	55	0.64	0.048	6
992916	Soil	0.8	58.9	9.0	171	0.7	37.5	10.4	940	3.43	11.2	4.9	0.9	56	2.4	0.7	0.2	53	1.05	0.072	14
992917	Soil	0.8	58.0	7.9	213	0.7	34.6	10.5	1293	3.00	8.9	2.7	0.5	59	3.8	0.5	0.2	46	1.02	0.110	16
992918	Soil	0.8	36.5	9.4	99	0.4	26.9	8.6	543	3.09	11.0	0.6	0.9	68	1.1	0.3	0.2	47	1.06	0.108	11
992919	Soil	1.1	25.3	8.5	61	<0.1	16.8	8.8	389	2.51	7.0	<0.5	0.5	47	0.5	0.4	0.2	49	0.36	0.026	6
992920	Soil	0.6	19.4	7.3	139	0.1	21.2	9.5	825	2.84	8.4	<0.5	0.5	31	0.3	0.5	0.2	49	0.28	0.079	7
992921	Soil	0.6	10.0	7.1	138	<0.1	16.7	8.7	864	2.66	8.2	<0.5	0.6	29	0.6	0.5	0.1	51	0.24	0.042	6
992922	Soil	0.6	12.0	6.5	163	0.3	18.8	9.7	877	2.83	6.8	<0.5	0.7	37	0.4	0.6	0.1	50	0.34	0.093	6
992923	Soil	0.7	23.8	8.5	239	0.2	27.5	12.1	1191	3.22	7.7	0.6	0.7	52	1.0	0.6	0.2	52	0.50	0.152	7
992924	Soil	0.8	13.8	7.2	218	0.2	14.7	9.7	1803	2.28	4.9	1.2	0.4	48	0.6	0.3	0.2	42	0.43	0.109	5
992925	Soil	0.6	12.7	7.6	112	<0.1	19.4	9.8	939	2.81	11.0	<0.5	0.8	40	0.3	0.5	0.1	54	0.34	0.035	5
992926	Soil	0.4	48.9	7.1	105	0.4	31.3	8.4	319	2.53	5.1	<0.5	1.2	42	0.2	0.3	0.2	43	0.35	0.104	11
992927	Soil	0.5	10.2	6.5	129	<0.1	16.7	9.2	1343	2.56	7.8	0.8	0.5	27	0.3	0.4	0.1	49	0.20	0.043	5
992928	Soil	0.5	13.0	7.0	101	<0.1	16.4	8.3	644	2.80	9.6	<0.5	0.7	32	0.3	0.4	<0.1	59	0.21	0.047	5
992929	Soil	0.8	12.9	7.2	65	<0.1	20.2	9.2	578	2.93	9.1	<0.5	0.5	28	0.2	0.5	0.1	55	0.19	0.019	5
992930	Soil	0.8	50.5	8.9	182	0.4	42.7	13.3	1459	3.61	9.0	<0.5	0.9	54	0.6	0.6	0.2	57	0.44	0.090	10
992931	Soil	0.6	13.5	6.8	150	0.1	21.3	9.6	804	2.91	7.5	<0.5	0.6	28	0.4	0.4	0.1	55	0.22	0.051	5
992932	Soil	0.6	13.3	6.2	62	<0.1	16.7	8.6	468	2.79	10.9	0.6	0.5	29	0.2	0.5	0.1	55	0.22	0.030	4
992933	Soil	0.4	19.1	7.5	54	0.1	17.6	7.5	284	2.11	5.7	0.7	0.8	33	0.1	0.3	<0.1	45	0.27	0.029	7
992934	Soil	0.6	25.0	7.5	161	0.2	24.1	11.9	1687	2.69	7.5	<0.5	0.4	61	0.9	0.5	0.2	50	0.53	0.087	7
992935	Soil	0.7	16.7	7.6	103	0.3	20.0	10.5	1606	2.62	6.4	<0.5	0.3	29	0.6	0.4	0.1	50	0.22	0.061	6
992936	Soil	0.5	26.1	6.0	98	0.3	25.6	10.7	872	2.47	5.1	<0.5	0.6	40	0.2	0.4	0.2	44	0.30	0.061	10
992937	Soil	0.7	46.8	8.6	117	0.3	36.1	13.5	1389	3.43	11.4	<0.5	0.7	65	0.4	0.6	0.2	56	0.56	0.083	16
992938	Soil	0.6	13.7	6.4	137	0.1	17.6	8.9	966	2.48	5.7	<0.5	0.4	36	0.4	0.4	0.1	48	0.30	0.042	7
992939	Soil	0.6	14.2	8.4	125	0.1	19.3	11.0	1144	2.97	8.5	<0.5	0.7	32	0.3	0.5	0.2	54	0.26	0.088	5
992940	Soil	0.7	16.9	7.3	70	<0.1	19.7	10.0	721	2.60	10.2	<0.5	0.6	28	<0.1	0.5	0.1	50	0.22	0.031	6
992941	Soil	0.7	20.9	8.8	104	0.2	20.8	11.8	1228	2.84	9.3	<0.5	0.5	43	0.5	0.5	0.2	54	0.30	0.048	7
992942	Soil	0.6	18.6	7.4	75	<0.1	20.6	10.8	618	2.62	7.9	<0.5	0.6	38	0.4	0.5	0.1	48	0.41	0.034	6
992943	Soil	0.9	67.2	8.7	150	0.6	41.1	10.9	731	3.34	10.7	<0.5	1.0	79	1.5	0.6	0.4	54	1.02	0.099	13

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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992914	Soil	18	0.35	257	0.030	3	1.18	0.007	0.13	0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
992915	Soil	25	0.46	282	0.019	<1	1.62	0.007	0.09	0.1	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2
992916	Soil	28	0.63	440	0.013	2	2.10	0.011	0.13	0.1	0.05	10.6	<0.1	<0.05	6	<0.5	<0.2
992917	Soil	24	0.56	353	0.011	3	1.95	0.010	0.13	<0.1	0.05	7.8	<0.1	<0.05	6	<0.5	<0.2
992918	Soil	26	0.56	324	0.010	2	1.98	0.011	0.10	0.1	0.05	10.0	<0.1	<0.05	6	0.7	<0.2
992919	Soil	20	0.45	164	0.012	<1	1.33	0.012	0.07	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
992920	Soil	20	0.51	192	0.032	1	1.41	0.009	0.11	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
992921	Soil	19	0.41	171	0.038	3	1.26	0.011	0.08	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
992922	Soil	20	0.46	187	0.041	2	1.39	0.014	0.09	0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
992923	Soil	22	0.54	275	0.040	1	1.60	0.012	0.14	<0.1	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
992924	Soil	17	0.31	254	0.033	1	1.04	0.006	0.10	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
992925	Soil	21	0.48	173	0.038	<1	1.35	0.011	0.07	0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
992926	Soil	26	0.60	308	0.007	1	2.43	0.016	0.14	<0.1	0.03	7.6	<0.1	<0.05	8	<0.5	<0.2
992927	Soil	17	0.36	202	0.035	<1	1.21	0.008	0.05	0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
992928	Soil	18	0.37	170	0.042	<1	1.14	0.008	0.06	0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
992929	Soil	21	0.51	114	0.030	<1	1.38	0.009	0.05	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
992930	Soil	32	0.73	273	0.015	<1	2.35	0.014	0.21	0.1	0.03	8.3	<0.1	<0.05	7	<0.5	<0.2
992931	Soil	21	0.39	156	0.034	<1	1.53	0.013	0.09	0.1	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
992932	Soil	19	0.43	85	0.042	<1	1.17	0.008	0.07	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
992933	Soil	19	0.48	134	0.034	<1	1.27	0.013	0.05	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
992934	Soil	21	0.44	301	0.026	<1	1.44	0.008	0.12	0.2	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
992935	Soil	17	0.34	220	0.033	<1	1.29	0.007	0.08	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
992936	Soil	26	0.58	199	0.017	<1	1.78	0.011	0.11	<0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
992937	Soil	29	0.67	274	0.016	<1	2.18	0.017	0.14	<0.1	0.06	8.4	<0.1	<0.05	6	<0.5	<0.2
992938	Soil	18	0.37	194	0.034	1	1.28	0.008	0.08	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
992939	Soil	20	0.45	221	0.043	<1	1.24	0.007	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
992940	Soil	20	0.48	115	0.039	<1	1.28	0.012	0.07	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
992941	Soil	22	0.49	245	0.019	<1	1.62	0.008	0.07	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
992942	Soil	22	0.56	151	0.027	<1	1.42	0.009	0.09	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
992943	Soil	31	0.73	358	0.007	<1	2.55	0.012	0.20	<0.1	0.07	10.4	0.2	<0.05	7	<0.5	<0.2

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Project: ZNT  
 Report Date: November 08, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000521.1

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
992944	Soil	0.7	47.5	7.8	130	0.3	34.6	12.1	699	2.98	8.2	<0.5	1.1	74	1.1	0.4	0.2	53	0.71	0.052	12
992945	Soil	0.6	43.2	9.6	256	0.2	30.2	11.8	1050	3.20	8.8	<0.5	0.9	45	1.4	0.6	0.2	53	0.63	0.084	12
992946	Soil	0.5	32.5	7.2	135	0.2	24.2	7.9	708	2.69	8.7	1.4	0.7	46	1.2	0.4	0.1	48	0.61	0.048	7
992947	Soil	0.8	46.3	9.6	144	0.3	28.6	11.6	985	3.16	12.2	0.8	0.8	52	1.7	0.8	0.2	52	0.93	0.064	10
992948	Soil	0.5	39.5	10.5	188	0.4	35.6	11.5	869	3.65	10.1	0.9	1.5	63	1.5	0.6	0.2	57	1.10	0.074	14
992949	Soil	0.5	20.3	8.9	343	<0.1	14.3	10.0	959	2.53	5.4	<0.5	0.6	26	3.9	0.4	0.2	47	0.29	0.113	5
992950	Soil	0.6	10.2	6.7	82	<0.1	16.7	7.6	393	2.60	10.7	1.0	0.7	24	0.4	0.4	0.1	50	0.26	0.047	4
992951	Soil	0.7	46.5	8.9	181	0.4	29.9	10.9	1176	3.00	10.1	<0.5	0.7	54	1.2	0.5	0.2	51	0.63	0.075	12
992952	Soil	0.5	12.9	6.9	126	<0.1	17.9	8.0	650	2.65	8.1	2.0	0.6	25	0.5	0.4	0.1	51	0.24	0.050	6
992953	Soil	0.8	15.8	9.4	130	<0.1	16.8	10.9	900	2.92	9.1	1.2	0.5	33	0.4	0.5	0.2	56	0.31	0.119	6
992954	Soil	0.7	19.3	9.3	133	0.1	21.6	10.6	710	3.03	12.5	0.8	0.8	37	0.8	0.5	0.1	57	0.42	0.071	5
993076	Soil	0.7	19.9	9.1	118	<0.1	20.4	10.0	731	2.85	10.6	<0.5	0.7	35	0.7	0.6	0.1	55	0.37	0.075	6
993077	Soil	0.7	19.4	9.4	247	0.1	15.2	10.2	1375	2.21	4.4	1.1	0.3	67	2.3	0.3	0.1	43	0.80	0.125	5
993078	Soil	0.8	39.2	10.0	102	<0.1	29.8	11.9	735	3.64	14.0	1.2	1.6	43	0.1	0.7	0.1	64	0.50	0.059	10
993079	Soil	0.9	56.4	11.4	191	0.7	34.9	10.4	917	3.49	16.1	3.1	1.0	94	1.1	0.7	0.2	54	1.47	0.104	18
993080	Soil	1.0	86.8	12.8	408	1.1	51.5	14.2	2726	3.59	9.9	<0.5	0.9	112	4.4	0.4	0.2	55	1.32	0.163	38
993081	Soil	0.5	18.8	7.7	195	0.2	15.4	9.3	1080	2.39	5.1	2.1	0.5	40	1.1	0.4	0.1	43	0.45	0.074	8
993082	Soil	0.5	10.9	6.0	97	0.2	9.1	4.8	399	1.84	3.5	0.7	0.3	35	1.0	0.3	<0.1	41	0.43	0.043	6
993083	Soil	0.5	18.3	7.2	98	0.2	18.6	7.5	485	2.62	6.5	<0.5	0.5	28	0.4	0.4	0.1	50	0.32	0.070	9
993084	Soil	0.7	68.9	12.0	129	0.4	42.2	13.3	1085	3.56	10.9	1.4	0.7	51	0.7	0.4	0.1	60	0.57	0.092	16
993085	Soil	0.5	15.4	7.6	129	<0.1	19.5	9.5	788	2.66	7.6	<0.5	0.3	47	0.8	0.4	0.1	48	0.52	0.070	8
993086	Soil	1.1	54.1	12.0	140	0.5	42.1	13.5	877	3.98	12.6	<0.5	1.1	66	1.2	0.5	0.2	65	0.67	0.070	14
993087	Soil	0.7	27.0	10.8	137	0.1	22.7	10.3	700	3.16	11.1	1.6	1.2	35	0.8	0.5	0.1	58	0.44	0.028	9
993088	Soil	0.7	56.7	17.3	303	0.6	39.1	12.5	856	4.17	17.1	1.4	1.2	44	2.5	0.5	0.2	67	0.99	0.093	13
993089	Soil	0.8	74.1	14.8	232	0.7	36.8	10.7	948	3.64	13.9	<0.5	1.2	53	2.8	0.7	0.2	61	1.11	0.070	15
993090	Soil	0.9	114.7	10.9	292	1.0	50.9	10.4	987	3.77	11.9	<0.5	0.9	70	4.1	1.0	0.2	55	1.86	0.130	30
993091	Soil	1.1	110.8	14.1	389	1.9	56.3	12.1	1054	4.54	15.7	<0.5	1.4	87	2.7	1.1	0.2	64	1.46	0.120	18
993092	Soil	0.7	44.3	11.7	149	0.4	24.1	9.6	670	3.06	11.7	1.6	0.8	42	0.9	0.5	0.1	52	0.68	0.049	9
993093	Soil	0.8	108.1	17.6	216	1.3	45.9	13.0	1433	3.76	17.4	1.3	1.1	42	2.4	0.6	0.2	59	0.68	0.082	26
993094	Soil	0.8	13.4	12.3	164	0.2	15.0	9.9	936	2.82	16.7	1.5	0.4	30	1.1	0.5	0.1	53	0.49	0.153	6

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992944	Soil	30	0.64	333	0.011	<1	2.27	0.013	0.16	<0.1	0.05	9.1	<0.1	<0.05	7	<0.5	<0.2
992945	Soil	27	0.61	306	0.021	2	1.94	0.011	0.15	<0.1	0.03	8.2	<0.1	<0.05	6	0.5	<0.2
992946	Soil	24	0.54	243	0.023	<1	1.59	0.009	0.12	<0.1	0.02	6.7	<0.1	<0.05	5	0.6	<0.2
992947	Soil	27	0.61	367	0.011	<1	2.01	0.010	0.13	<0.1	0.04	8.4	<0.1	<0.05	5	<0.5	<0.2
992948	Soil	32	0.71	500	0.014	<1	2.92	0.019	0.12	0.1	0.03	12.6	0.1	<0.05	7	1.2	<0.2
992949	Soil	17	0.31	204	0.051	<1	0.99	0.006	0.08	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
992950	Soil	18	0.41	132	0.034	4	1.12	0.006	0.04	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
992951	Soil	25	0.62	288	0.020	3	2.01	0.011	0.14	<0.1	0.03	6.9	<0.1	<0.05	6	<0.5	<0.2
992952	Soil	21	0.43	145	0.045	4	1.26	0.008	0.06	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
992953	Soil	21	0.44	218	0.037	3	1.31	0.009	0.11	0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
992954	Soil	22	0.51	176	0.049	5	1.34	0.012	0.10	0.1	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2
993076	Soil	20	0.51	140	0.046	3	1.31	0.007	0.08	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
993077	Soil	17	0.34	305	0.036	5	0.89	0.007	0.08	0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
993078	Soil	30	0.70	206	0.042	4	1.88	0.014	0.12	<0.1	0.10	9.3	<0.1	<0.05	6	<0.5	<0.2
993079	Soil	31	0.65	466	0.008	4	2.66	0.009	0.17	0.1	0.13	12.4	0.1	<0.05	6	1.2	<0.2
993080	Soil	31	0.61	633	0.010	4	2.70	0.012	0.18	0.1	0.05	11.2	0.1	<0.05	7	0.5	<0.2
993081	Soil	18	0.36	323	0.037	2	1.08	0.007	0.08	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
993082	Soil	13	0.24	219	0.039	3	0.75	0.006	0.07	0.1	0.02	2.6	<0.1	<0.05	4	0.5	<0.2
993083	Soil	19	0.45	173	0.037	2	1.24	0.007	0.07	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
993084	Soil	33	0.76	305	0.015	3	2.74	0.010	0.12	<0.1	0.04	7.7	<0.1	<0.05	7	0.8	<0.2
993085	Soil	21	0.52	182	0.036	2	1.34	0.007	0.08	0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
993086	Soil	36	0.77	384	0.011	3	2.83	0.013	0.17	<0.1	0.06	9.6	0.1	<0.05	8	0.7	<0.2
993087	Soil	27	0.61	264	0.038	3	1.71	0.013	0.07	0.1	0.02	7.5	<0.1	<0.05	5	<0.5	<0.2
993088	Soil	37	0.70	723	0.011	2	3.39	0.016	0.13	<0.1	0.07	11.1	0.2	<0.05	8	0.5	<0.2
993089	Soil	32	0.64	582	0.019	6	2.67	0.012	0.13	<0.1	0.09	12.0	0.2	<0.05	7	0.8	<0.2
993090	Soil	37	0.77	777	0.011	5	3.27	0.016	0.19	0.1	0.06	13.0	0.2	<0.05	8	1.5	<0.2
993091	Soil	42	0.96	673	0.009	4	3.95	0.018	0.24	<0.1	0.10	15.7	0.2	<0.05	10	1.3	<0.2
993092	Soil	25	0.60	264	0.024	3	1.81	0.012	0.09	0.1	0.06	6.8	<0.1	<0.05	5	0.6	<0.2
993093	Soil	34	0.71	843	0.012	2	3.16	0.014	0.16	<0.1	0.10	11.2	0.2	<0.05	8	<0.5	<0.2
993094	Soil	19	0.35	448	0.029	2	1.48	0.007	0.13	0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		1
993095	Soil	1.0	35.9	20.4	169	0.4	16.5	10.6	1355	2.63	10.8	<0.5	0.2	51	2.9	0.5	0.2	53	0.59	0.070	17
993096	Soil	0.7	12.1	12.1	163	0.2	14.3	8.4	759	2.95	10.1	0.7	0.1	17	0.7	0.5	0.1	57	0.19	0.056	5
993098	Soil	1.1	11.0	14.5	445	0.2	7.8	8.9	2621	2.42	4.5	2.4	0.2	32	7.6	0.3	0.2	50	0.56	0.088	5
993099	Soil	0.6	9.5	8.3	165	0.1	11.7	7.5	882	2.28	4.3	<0.5	0.2	35	1.1	0.4	0.1	43	0.53	0.114	5
993137	Soil	1.1	8.9	14.3	207	0.1	8.4	10.3	1482	2.66	5.8	1.2	0.4	16	1.2	0.4	0.3	55	0.22	0.067	4
993138	Soil	1.3	10.4	20.7	305	0.2	7.9	9.4	3207	2.81	4.7	0.9	0.2	31	3.1	0.4	0.2	55	0.41	0.087	4
993139	Soil	1.4	89.7	35.3	481	1.6	24.7	13.9	4041	3.58	13.0	<0.5	0.6	85	5.4	0.6	0.3	57	1.52	0.089	22
993140	Soil	2.5	123.1	32.9	399	2.5	39.4	20.6	6867	5.19	21.6	3.1	1.6	75	5.4	1.0	0.3	75	0.98	0.102	25
993190	Soil	0.5	9.4	7.9	116	0.2	15.7	6.9	830	2.42	5.9	<0.5	0.5	22	0.5	0.4	<0.1	45	0.30	0.095	5
993191	Soil	0.5	8.8	9.1	101	<0.1	15.7	7.3	539	2.66	7.8	<0.5	0.8	18	0.4	0.4	<0.1	48	0.23	0.088	4
993192	Soil	0.9	9.6	12.4	149	0.1	11.9	8.1	606	3.06	9.7	<0.5	0.6	13	0.4	0.5	<0.1	61	0.16	0.030	4
993193	Soil	0.8	14.3	9.6	105	<0.1	13.0	6.8	456	2.93	11.9	<0.5	0.7	23	0.4	0.5	<0.1	60	0.29	0.017	4
993194	Soil	1.2	9.6	16.3	273	0.2	10.5	9.2	1580	3.09	6.9	1.1	0.6	20	1.4	0.4	0.3	58	0.26	0.132	5
993195	Soil	0.9	10.0	14.2	200	0.2	9.5	9.1	971	3.05	7.5	21.4	0.5	21	0.9	0.4	0.2	65	0.25	0.107	5
993196	Soil	1.3	13.6	26.3	448	0.3	12.9	11.9	2484	3.72	9.8	1.1	0.5	18	2.3	0.5	0.2	66	0.21	0.187	5
993197	Soil	1.1	10.8	20.1	332	0.3	14.0	10.1	2189	3.10	9.5	0.5	0.4	22	1.6	0.5	0.1	59	0.31	0.144	4
993198	Soil	0.6	5.1	11.1	203	<0.1	9.1	6.7	634	2.66	5.3	0.7	0.4	15	0.5	0.3	0.2	51	0.19	0.101	4
993199	Soil	0.6	12.4	7.2	129	0.1	14.7	7.7	947	2.44	7.1	1.0	0.6	22	0.7	0.4	0.1	47	0.28	0.101	5
993250	Soil	0.8	10.9	14.1	219	0.2	14.0	9.5	1500	3.03	5.8	1.7	0.6	20	1.5	0.4	0.1	57	0.30	0.118	4
993251	Soil	0.8	25.6	9.2	259	0.1	15.5	9.2	1001	2.24	4.6	<0.5	0.3	45	3.3	0.3	0.2	42	0.63	0.092	5
993252	Soil	0.5	33.6	8.2	454	0.3	16.2	10.9	1655	2.10	2.7	<0.5	0.4	37	4.7	0.3	0.2	36	0.51	0.100	5
993253	Soil	0.7	47.4	9.0	146	0.5	35.0	9.4	556	3.12	10.3	1.8	0.8	85	1.3	0.6	0.2	50	1.41	0.101	11
993254	Soil	0.6	40.4	10.2	108	0.3	28.2	10.4	740	3.04	11.4	2.7	0.9	55	1.1	0.6	0.2	53	0.92	0.077	11
993255	Soil	0.6	42.6	7.6	98	0.3	25.6	8.4	419	2.37	6.0	0.6	0.6	61	0.8	0.5	0.1	44	1.19	0.072	11
993256	Soil	0.6	29.7	10.2	137	0.2	26.8	15.0	1109	2.97	7.1	0.8	0.9	73	0.6	0.4	0.2	48	0.77	0.085	8
993257	Soil	0.7	16.8	9.4	124	0.1	19.8	12.5	1489	3.00	7.9	<0.5	0.4	39	0.3	0.5	0.1	57	0.32	0.040	6
993258	Soil	0.5	11.5	5.6	114	0.1	16.6	7.0	741	2.14	3.6	4.2	0.5	29	0.2	0.3	<0.1	43	0.27	0.038	6
993259	Soil	0.6	36.5	9.6	165	0.3	36.1	13.7	1594	3.27	6.9	0.6	0.9	57	0.6	0.4	0.2	55	0.55	0.149	13
993260	Soil	0.6	12.7	8.5	171	<0.1	18.3	11.5	1533	2.56	6.4	0.8	0.4	51	0.9	0.4	0.1	51	0.49	0.066	6
993261	Soil	0.5	16.0	6.3	135	0.1	15.5	7.9	801	2.43	5.5	0.6	0.5	36	0.3	0.3	0.1	52	0.32	0.075	7

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 15th Floor - 1040 West Georgia Street  
 Vancouver BC V6E 4H1 Canada

Project: ZNT  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993095	Soil	19	0.36	406	0.016	2	1.42	0.006	0.07	<0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
993096	Soil	18	0.38	184	0.029	<1	1.24	0.006	0.06	0.1	0.05	2.5	<0.1	<0.05	5	<0.5	<0.2
993098	Soil	13	0.22	648	0.040	2	0.71	0.006	0.09	0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
993099	Soil	16	0.32	260	0.033	3	1.00	0.006	0.08	<0.1	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
993137	Soil	14	0.21	186	0.038	2	0.78	0.005	0.11	0.2	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
993138	Soil	15	0.21	419	0.039	1	0.77	0.006	0.09	0.2	0.05	2.5	0.1	<0.05	4	<0.5	<0.2
993139	Soil	23	0.42	917	0.030	3	1.99	0.010	0.10	0.2	0.10	12.8	0.3	<0.05	6	1.0	<0.2
993140	Soil	31	0.50	1253	0.025	1	2.83	0.013	0.12	0.2	0.15	28.1	0.4	<0.05	8	0.9	<0.2
993190	Soil	16	0.36	200	0.034	<1	1.03	0.006	0.06	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
993191	Soil	16	0.37	160	0.040	<1	1.03	0.006	0.05	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
993192	Soil	17	0.34	208	0.042	<1	0.96	0.006	0.05	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
993193	Soil	17	0.35	210	0.042	<1	0.96	0.007	0.06	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
993194	Soil	16	0.27	315	0.032	2	1.07	0.010	0.07	0.2	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
993195	Soil	16	0.30	326	0.026	1	1.04	0.006	0.08	0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
993196	Soil	19	0.34	483	0.027	2	1.35	0.006	0.07	0.2	0.04	4.5	0.1	<0.05	6	<0.5	<0.2
993197	Soil	18	0.36	378	0.031	2	1.19	0.006	0.07	0.2	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
993198	Soil	14	0.24	207	0.028	2	0.93	0.005	0.05	0.2	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
993199	Soil	17	0.29	130	0.038	2	1.12	0.007	0.06	0.1	0.02	2.9	<0.1	<0.05	4	0.8	<0.2
993250	Soil	17	0.33	327	0.043	3	1.01	0.006	0.09	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
993251	Soil	16	0.33	265	0.037	3	0.92	0.006	0.08	0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
993252	Soil	15	0.29	351	0.045	3	0.90	0.006	0.13	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
993253	Soil	29	0.66	385	0.011	2	2.21	0.013	0.13	0.1	0.07	9.9	<0.1	0.08	6	<0.5	<0.2
993254	Soil	25	0.58	310	0.021	2	1.77	0.011	0.11	<0.1	0.06	8.1	<0.1	<0.05	5	<0.5	<0.2
993255	Soil	23	0.52	276	0.014	3	1.66	0.012	0.10	<0.1	0.06	6.5	<0.1	0.08	5	0.5	<0.2
993256	Soil	24	0.61	213	0.011	2	1.91	0.010	0.18	<0.1	0.06	5.8	<0.1	<0.05	6	<0.5	<0.2
993257	Soil	22	0.44	230	0.028	2	1.54	0.008	0.07	0.1	0.04	3.8	<0.1	<0.05	5	<0.5	<0.2
993258	Soil	17	0.39	165	0.048	<1	1.14	0.008	0.06	0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
993259	Soil	29	0.60	280	0.025	3	2.29	0.012	0.17	<0.1	0.04	8.0	<0.1	<0.05	6	<0.5	<0.2
993260	Soil	20	0.38	274	0.032	3	1.29	0.007	0.12	<0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
993261	Soil	18	0.30	271	0.043	2	1.30	0.010	0.07	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
993262	Soil	1.5	86.4	11.0	155	0.9	67.2	20.1	1453	4.57	16.0	0.8	1.4	89	1.2	0.4	0.3	85	0.71	0.133	26
993263	Soil	0.6	20.8	7.5	216	0.2	21.2	11.5	1680	2.42	4.0	<0.5	0.4	61	1.2	0.2	0.1	46	0.62	0.110	6
993264	Soil	0.3	20.3	7.3	166	0.2	21.6	10.4	1492	2.62	5.8	<0.5	0.3	48	0.8	0.3	0.1	50	0.46	0.140	6
993265	Soil	0.9	24.2	8.6	135	0.2	24.5	11.3	1910	2.84	10.9	1.4	0.5	43	0.7	0.3	0.1	52	0.41	0.074	8
993266	Soil	0.6	20.4	8.5	160	0.1	22.7	11.5	1055	3.00	8.0	1.8	0.6	43	0.4	0.5	0.1	55	0.46	0.103	7
993267	Soil	1.1	35.1	9.9	89	0.2	30.3	13.2	924	3.33	12.3	5.0	1.2	54	0.2	0.9	0.1	63	0.56	0.062	9
993268	Soil	0.6	20.6	6.8	142	0.2	22.6	9.6	943	2.70	6.2	3.0	0.6	41	0.3	0.4	0.1	52	0.35	0.045	8
993269	Soil	0.6	18.1	7.7	115	0.2	22.6	10.4	967	2.75	7.9	<0.5	0.6	48	0.4	0.4	<0.1	53	0.40	0.063	8
993270	Soil	0.7	16.6	7.8	63	<0.1	19.7	10.3	678	3.07	13.1	1.0	0.9	36	0.1	0.5	0.1	61	0.30	0.028	7
993271	Soil	0.5	14.4	8.9	212	0.2	19.4	12.5	1698	2.57	6.0	3.2	0.5	40	0.9	0.3	0.1	50	0.38	0.110	6
993272	Soil	0.5	19.2	7.6	129	0.1	20.2	11.7	1191	2.25	4.2	<0.5	0.3	48	0.8	0.2	0.1	41	0.50	0.111	7
993273	Soil	0.8	60.8	9.6	167	0.5	55.3	16.7	1375	3.83	8.1	1.8	1.7	70	1.7	0.4	0.2	63	0.86	0.095	11
993274	Soil	0.5	16.8	8.3	232	0.2	21.4	12.3	1242	2.66	4.6	0.9	0.6	39	1.2	0.2	0.1	49	0.38	0.066	6
993275	Soil	0.4	52.8	8.6	169	0.5	34.9	10.5	512	2.96	6.5	1.6	1.2	59	0.9	0.5	0.2	54	0.97	0.076	12
993276	Soil	0.6	18.6	7.4	162	0.2	19.1	10.1	1242	2.38	4.7	1.2	0.5	47	0.9	0.5	0.1	44	0.80	0.063	8
993277	Soil	0.6	12.1	6.6	124	<0.1	11.1	7.7	431	1.87	3.1	<0.5	0.3	42	0.6	0.3	0.1	38	0.85	0.046	5
993278	Soil	0.7	27.9	8.6	420	0.2	19.1	13.1	1203	2.41	5.8	0.9	0.3	58	3.0	0.4	0.2	39	1.04	0.121	5
993279	Soil	0.9	59.8	8.8	266	0.5	39.3	11.2	908	3.05	8.6	2.9	0.9	89	2.7	0.5	0.2	52	1.38	0.115	12
993280	Soil	1.0	42.4	10.3	105	0.4	30.3	9.1	548	2.93	10.9	1.5	0.7	70	0.9	0.6	0.3	51	1.12	0.083	12
993281	Soil	0.9	16.5	8.9	167	0.1	22.0	10.8	769	2.87	8.6	0.9	0.8	32	0.7	0.4	0.2	52	0.37	0.076	7
993282	Soil	0.6	76.7	8.9	120	0.8	36.9	9.0	1122	2.77	7.7	2.0	0.9	99	1.9	0.6	0.2	50	1.65	0.096	15
993283	Soil	0.7	106.4	19.8	290	1.4	60.0	12.3	1722	3.68	11.7	0.7	1.0	94	8.1	0.8	0.2	56	1.52	0.104	18
993284	Soil	1.0	48.6	15.5	141	0.5	34.2	12.4	1066	4.24	13.3	2.0	0.9	72	1.3	0.8	0.2	80	1.18	0.074	16
993285	Soil	1.2	168.2	19.5	142	1.8	59.6	12.7	1121	4.17	20.1	0.9	1.4	82	3.6	0.8	0.2	66	1.29	0.089	42
993286	Soil	0.7	25.1	10.1	164	0.2	21.4	10.2	1068	2.64	8.1	1.8	0.5	45	1.6	0.5	0.1	53	0.60	0.083	7
993287	Soil	0.6	17.8	7.9	129	0.1	19.5	7.6	552	2.50	8.7	1.5	0.9	30	0.4	0.4	0.1	50	0.34	0.040	7
993288	Soil	0.8	23.9	8.1	118	0.1	14.9	7.5	640	2.24	5.8	<0.5	0.6	39	1.0	0.4	0.1	45	0.49	0.063	6
993289	Soil	0.4	14.6	7.7	125	<0.1	12.7	8.6	519	2.29	4.6	0.9	0.8	25	0.8	0.3	0.1	46	0.30	0.057	5
993300	Soil	0.9	11.4	9.2	141	0.1	15.4	9.4	1664	2.67	5.1	<0.5	0.4	27	0.6	0.4	0.1	54	0.31	0.074	5
993301	Soil	0.9	31.2	10.1	104	0.1	27.9	12.6	954	3.10	11.3	1.5	1.1	60	0.5	0.6	0.1	55	0.91	0.073	8

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993262	Soil	39	0.81	499	0.012	3	3.97	0.019	0.29	0.2	0.07	12.9	0.1	<0.05	11	<0.5	<0.2
993263	Soil	19	0.35	333	0.032	3	1.30	0.007	0.08	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
993264	Soil	20	0.35	295	0.033	2	1.36	0.008	0.08	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
993265	Soil	21	0.40	319	0.042	2	1.52	0.007	0.10	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
993266	Soil	23	0.49	249	0.031	2	1.63	0.009	0.10	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
993267	Soil	30	0.59	210	0.048	4	1.73	0.014	0.12	0.1	0.06	7.6	<0.1	<0.05	5	<0.5	<0.2
993268	Soil	22	0.44	225	0.033	1	1.56	0.008	0.10	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
993269	Soil	23	0.45	204	0.035	1	1.46	0.009	0.08	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
993270	Soil	21	0.53	112	0.068	1	1.31	0.017	0.08	0.1	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2
993271	Soil	19	0.34	285	0.037	2	1.50	0.007	0.10	0.1	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
993272	Soil	19	0.42	242	0.026	2	1.24	0.006	0.10	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
993273	Soil	38	0.84	467	0.011	3	3.28	0.015	0.22	<0.1	0.04	13.8	<0.1	0.06	9	<0.5	<0.2
993274	Soil	21	0.49	286	0.035	3	1.61	0.009	0.09	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
993275	Soil	30	0.71	377	0.013	2	2.72	0.016	0.17	<0.1	0.07	9.5	<0.1	0.07	7	0.7	<0.2
993276	Soil	19	0.43	244	0.035	2	1.36	0.011	0.08	<0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
993277	Soil	14	0.30	174	0.038	3	0.86	0.007	0.06	0.1	0.04	2.5	<0.1	0.08	3	<0.5	<0.2
993278	Soil	18	0.35	416	0.016	4	1.32	0.008	0.10	<0.1	0.04	3.5	<0.1	0.06	4	<0.5	<0.2
993279	Soil	27	0.59	453	0.019	8	2.18	0.010	0.25	0.2	0.08	8.8	<0.1	0.06	6	<0.5	<0.2
993280	Soil	25	0.58	371	0.014	3	1.95	0.013	0.09	0.2	0.07	8.2	<0.1	0.08	5	<0.5	<0.2
993281	Soil	23	0.55	155	0.050	3	1.44	0.013	0.12	0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
993282	Soil	28	0.60	518	0.013	3	2.11	0.014	0.10	<0.1	0.08	11.4	0.1	0.07	6	<0.5	<0.2
993283	Soil	27	0.66	464	0.018	3	2.24	0.014	0.11	<0.1	0.06	10.7	<0.1	0.05	6	<0.5	<0.2
993284	Soil	30	0.64	399	0.023	3	2.07	0.015	0.10	0.2	0.08	9.8	<0.1	0.05	6	<0.5	<0.2
993285	Soil	32	0.55	511	0.015	2	2.72	0.012	0.09	0.1	0.09	23.7	0.2	<0.05	7	<0.5	<0.2
993286	Soil	21	0.47	225	0.039	3	1.29	0.008	0.12	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
993287	Soil	21	0.45	145	0.058	2	1.21	0.010	0.06	0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
993288	Soil	17	0.31	201	0.040	3	1.02	0.007	0.08	<0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
993289	Soil	16	0.31	158	0.056	2	0.92	0.006	0.08	0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
993300	Soil	18	0.31	181	0.045	2	0.97	0.007	0.07	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
993301	Soil	25	0.64	194	0.037	5	1.55	0.015	0.19	0.1	0.06	6.7	<0.1	0.05	5	<0.5	<0.2

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
993302	Soil	1.0	22.8	21.0	129	0.1	19.5	12.5	1057	3.65	16.2	2.4	0.9	28	0.3	0.6	<0.1	67	0.38	0.058	6
993303	Soil	0.7	31.7	10.0	107	0.1	28.9	13.0	1144	3.24	12.8	0.7	1.0	53	1.1	0.6	0.1	60	0.79	0.090	7
993304	Soil	0.8	27.9	12.4	99	0.1	20.7	10.9	1042	3.08	11.4	1.0	0.8	50	0.4	0.6	0.1	60	0.70	0.069	8
993305	Soil	2.2	13.7	15.2	250	0.2	16.1	10.0	1176	3.29	10.3	<0.5	0.6	31	0.8	0.5	0.2	69	0.51	0.060	5
993306	Soil	0.5	7.6	9.5	269	0.2	13.3	7.5	498	2.59	4.2	<0.5	0.7	18	0.5	0.3	0.2	54	0.24	0.075	6
993307	Soil	1.0	9.2	16.8	252	0.3	11.8	8.6	643	3.18	11.0	<0.5	0.7	16	0.9	0.4	0.2	69	0.19	0.063	5
993308	Soil	1.1	14.5	23.3	420	0.5	11.0	9.2	2360	3.05	8.3	0.7	0.4	26	2.5	0.3	0.2	63	0.41	0.136	6
993309	Soil	0.8	7.7	15.8	228	0.3	6.2	6.4	1658	2.36	3.7	<0.5	0.1	29	1.9	0.3	0.2	52	0.49	0.077	5
993310	Soil	1.1	12.3	25.6	352	0.2	15.6	10.0	946	4.24	13.6	<0.5	0.6	19	1.3	0.5	0.2	74	0.22	0.247	5
993311	Soil	0.8	21.4	8.5	83	0.2	21.6	10.4	674	2.98	9.5	0.9	0.9	36	0.6	0.5	0.1	58	0.40	0.037	7
993312	Soil	0.8	32.3	21.3	178	0.2	21.7	13.2	1205	3.69	15.1	1.3	1.0	33	1.1	0.7	<0.1	66	0.46	0.060	8
993313	Soil	1.5	17.6	12.1	90	<0.1	17.0	10.8	717	2.86	10.3	<0.5	0.8	31	0.4	0.5	<0.1	57	0.40	0.039	5
993314	Soil	0.9	20.5	10.7	80	<0.1	19.2	9.5	656	2.97	9.9	0.9	0.8	41	0.4	0.6	<0.1	55	0.49	0.057	6
993315	Soil	1.0	31.2	10.2	90	0.1	27.6	12.5	923	3.11	9.1	<0.5	0.6	56	0.6	0.5	0.1	53	0.68	0.065	9
993316	Soil	0.9	33.7	10.6	119	0.2	26.1	12.4	968	2.94	10.7	0.8	0.6	56	1.8	0.5	0.1	55	0.77	0.074	7
993317	Soil	1.0	36.9	9.7	144	0.3	34.4	14.0	1113	3.42	13.2	2.0	1.3	70	0.6	0.7	0.1	63	0.92	0.084	8
993318	Soil	0.7	16.0	8.5	98	<0.1	17.7	8.6	589	2.65	7.9	1.6	0.7	24	0.3	0.5	<0.1	54	0.26	0.035	5
993319	Soil	0.6	14.1	7.3	118	<0.1	18.4	7.8	516	2.56	6.2	<0.5	0.5	27	0.4	0.4	<0.1	51	0.32	0.056	6
993321	Soil	0.8	11.7	7.5	141	<0.1	14.5	7.5	642	2.36	5.9	0.7	0.5	30	0.6	0.3	0.1	49	0.40	0.040	5
993322	Soil	0.5	10.3	5.2	151	<0.1	17.2	7.0	542	2.36	4.1	<0.5	0.8	22	0.5	0.4	<0.1	46	0.26	0.075	6
993323	Soil	0.8	8.4	10.0	254	0.4	13.3	9.2	745	3.14	4.1	0.5	0.7	26	1.2	0.4	0.2	63	0.26	0.187	5
993324	Soil	0.8	18.5	8.8	101	0.1	22.6	10.1	607	3.42	11.6	1.1	0.9	25	0.3	0.4	0.1	65	0.27	0.102	6
993325	Soil	0.5	21.7	8.8	427	0.4	11.0	9.7	2859	2.42	3.8	0.7	0.5	54	3.3	0.3	0.2	45	0.80	0.219	5
993326	Soil	1.1	83.4	10.3	146	0.7	46.3	11.5	917	3.85	14.5	2.5	1.4	87	2.0	1.0	0.2	65	1.69	0.096	23
993327	Soil	0.9	107.5	10.5	157	1.0	58.0	15.0	1278	4.05	12.5	1.3	1.9	65	3.0	0.5	0.2	62	1.35	0.098	26
993350	Soil	0.7	12.1	9.6	197	0.2	11.6	7.8	1492	2.13	3.3	<0.5	0.2	24	1.3	0.2	0.1	45	0.39	0.068	4
993351	Soil	1.0	73.7	11.3	161	1.2	43.0	11.3	625	3.13	9.9	2.6	1.0	68	1.4	0.4	0.2	54	1.32	0.126	22
993352	Soil	0.5	27.3	9.1	225	0.2	22.1	10.3	1032	2.79	7.6	2.2	0.4	31	1.5	0.3	0.1	55	0.65	0.058	8
993353	Soil	0.5	27.2	10.2	405	0.1	17.9	10.6	1356	2.57	6.0	<0.5	0.3	30	3.5	0.3	0.1	50	0.57	0.101	5
993354	Soil	0.9	151.0	11.8	233	1.3	75.7	15.5	1292	4.77	11.4	0.9	1.4	61	5.4	0.7	0.2	77	1.72	0.103	33

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Project: ZNT  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993302	Soil	22	0.57	370	0.049	2	1.21	0.011	0.06	0.1	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2
993303	Soil	27	0.62	258	0.043	3	1.62	0.015	0.15	0.1	0.05	6.4	<0.1	<0.05	5	<0.5	<0.2
993304	Soil	22	0.52	288	0.048	3	1.41	0.014	0.15	<0.1	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2
993305	Soil	20	0.39	371	0.036	4	1.37	0.007	0.08	0.2	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
993306	Soil	17	0.35	225	0.047	2	1.20	0.010	0.08	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
993307	Soil	18	0.30	245	0.039	2	1.24	0.006	0.07	0.2	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
993308	Soil	17	0.25	496	0.035	2	1.30	0.006	0.09	0.2	0.04	3.3	0.1	<0.05	6	<0.5	<0.2
993309	Soil	12	0.17	342	0.031	1	0.69	0.005	0.11	0.2	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
993310	Soil	22	0.41	390	0.031	2	1.57	0.007	0.10	0.2	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2
993311	Soil	22	0.51	184	0.055	2	1.34	0.012	0.08	0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
993312	Soil	22	0.60	667	0.043	2	1.39	0.014	0.06	<0.1	0.04	7.3	0.1	<0.05	4	0.6	<0.2
993313	Soil	20	0.47	133	0.049	2	1.13	0.008	0.12	<0.1	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
993314	Soil	21	0.51	164	0.046	3	1.28	0.012	0.11	<0.1	0.03	5.3	<0.1	<0.05	4	<0.5	<0.2
993315	Soil	25	0.55	243	0.038	4	1.49	0.009	0.18	0.1	0.05	5.6	<0.1	<0.05	5	<0.5	<0.2
993316	Soil	24	0.51	303	0.039	2	1.45	0.012	0.15	0.1	0.04	5.5	<0.1	<0.05	5	<0.5	<0.2
993317	Soil	30	0.69	260	0.042	6	1.86	0.018	0.20	0.1	0.07	8.2	<0.1	<0.05	5	<0.5	<0.2
993318	Soil	19	0.43	116	0.058	2	1.11	0.007	0.08	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
993319	Soil	19	0.45	141	0.052	2	1.22	0.009	0.07	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
993321	Soil	18	0.37	162	0.049	2	1.03	0.007	0.07	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
993322	Soil	18	0.44	150	0.054	2	1.12	0.007	0.05	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
993323	Soil	20	0.31	255	0.041	1	1.32	0.007	0.08	0.2	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
993324	Soil	25	0.51	174	0.037	1	1.52	0.007	0.08	0.1	0.04	5.1	<0.1	<0.05	5	<0.5	<0.2
993325	Soil	16	0.23	499	0.045	4	0.97	0.007	0.09	0.2	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
993326	Soil	36	0.70	541	0.017	3	2.77	0.013	0.15	0.2	0.05	15.5	0.1	0.10	7	<0.5	<0.2
993327	Soil	37	0.66	594	0.013	<1	2.81	0.012	0.12	0.2	0.10	18.4	<0.1	0.05	8	0.9	<0.2
993350	Soil	14	0.25	321	0.028	2	0.90	0.005	0.08	0.1	0.05	2.2	<0.1	<0.05	4	<0.5	<0.2
993351	Soil	33	0.75	783	0.005	2	3.71	0.013	0.15	0.1	0.17	13.6	0.1	0.13	9	0.6	<0.2
993352	Soil	22	0.51	290	0.032	3	1.43	0.009	0.07	0.2	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
993353	Soil	18	0.37	330	0.037	2	1.08	0.006	0.06	0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
993354	Soil	46	0.98	678	0.012	3	3.63	0.013	0.18	0.2	0.10	16.9	0.1	<0.05	9	1.1	<0.2

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Project: ZNT  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
993355	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.
993356	Soil	0.5	25.8	8.0	378	0.2	14.0	9.0	2409	2.38	4.1	<0.5	0.5	37	3.2	0.3	0.1	52	0.61	0.128
993357	Soil	0.6	15.7	6.1	181	<0.1	18.7	8.7	704	2.54	5.1	<0.5	0.5	23	1.0	0.3	<0.1	51	0.39	0.066
993358	Soil	0.8	13.7	7.4	185	<0.1	17.6	9.3	645	3.33	6.7	2.8	0.5	14	0.3	0.4	<0.1	58	0.22	0.080
993359	Soil	0.9	18.2	10.0	108	<0.1	26.7	10.2	508	3.75	14.2	1.9	0.7	15	0.3	0.5	<0.1	68	0.23	0.081
993360	Soil	0.7	77.5	10.4	230	0.9	53.4	14.9	1325	4.26	11.3	3.7	1.5	58	2.6	0.6	0.2	67	1.39	0.102
993361	Soil	0.6	21.4	7.2	198	0.1	17.2	10.6	958	2.58	4.6	1.3	0.5	31	1.3	0.3	0.1	49	0.60	0.060
993362	Soil	0.9	36.4	10.5	93	0.2	27.5	12.8	1064	3.09	10.1	1.4	0.7	52	0.7	0.5	0.1	59	1.46	0.071
993363	Soil	1.0	67.7	11.3	121	0.5	41.9	12.5	907	3.59	11.5	2.2	0.9	36	1.9	0.4	0.2	66	0.68	0.046
993364	Soil	0.9	60.6	10.6	121	0.5	31.1	12.1	915	3.16	9.5	<0.5	0.6	40	2.0	0.4	0.2	58	0.87	0.065
993365	Soil	0.7	42.0	10.2	119	0.3	31.4	12.1	708	3.59	11.9	1.3	0.8	42	0.6	0.5	0.1	63	1.06	0.084



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993355	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.	
993356	Soil	17	0.26	460	0.046	4	0.96	0.006	0.07	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
993357	Soil	20	0.49	186	0.041	3	1.18	0.006	0.07	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
993358	Soil	19	0.44	132	0.042	2	1.16	0.006	0.05	0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
993359	Soil	24	0.56	134	0.035	1	1.54	0.006	0.05	0.2	0.01	4.3	<0.1	<0.05	5	<0.5	<0.2
993360	Soil	41	0.82	501	0.015	3	3.07	0.014	0.19	0.2	0.05	14.1	0.1	<0.05	8	<0.5	<0.2
993361	Soil	18	0.41	232	0.042	3	1.05	0.006	0.09	0.2	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
993362	Soil	27	0.62	346	0.025	5	1.84	0.012	0.10	0.2	0.07	7.4	<0.1	0.12	5	0.8	<0.2
993363	Soil	32	0.54	394	0.017	2	2.03	0.007	0.09	0.1	0.02	7.9	<0.1	<0.05	7	<0.5	<0.2
993364	Soil	26	0.49	310	0.025	2	1.40	0.007	0.11	0.1	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
993365	Soil	29	0.67	300	0.020	3	1.93	0.012	0.10	0.1	0.06	8.0	<0.1	0.09	5	<0.5	<0.2



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# QUALITY CONTROL REPORT

SMI12000521.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992929	Soil	0.8	12.9	7.2	65	<0.1	20.2	9.2	578	2.93	9.1	<0.5	0.5	28	0.2	0.5	0.1	55	0.19	0.019	5
REP 992929	QC	0.5	13.3	7.4	66	<0.1	20.6	9.7	596	2.99	9.3	<0.5	0.6	30	<0.1	0.5	0.1	58	0.20	0.019	5
992932	Soil	0.6	13.3	6.2	62	<0.1	16.7	8.6	468	2.79	10.9	0.6	0.5	29	0.2	0.5	0.1	55	0.22	0.030	4
REP 992932	QC	0.8	12.5	6.4	59	<0.1	16.7	8.2	466	2.73	10.7	<0.5	0.5	28	0.2	0.6	<0.1	55	0.21	0.030	4
993087	Soil	0.7	27.0	10.8	137	0.1	22.7	10.3	700	3.16	11.1	1.6	1.2	35	0.8	0.5	0.1	58	0.44	0.028	9
REP 993087	QC	0.5	27.5	11.0	143	0.1	22.8	10.2	693	3.26	11.4	<0.5	1.2	34	0.8	0.4	<0.1	60	0.46	0.029	9
993089	Soil	0.8	74.1	14.8	232	0.7	36.8	10.7	948	3.64	13.9	<0.5	1.2	53	2.8	0.7	0.2	61	1.11	0.070	15
REP 993089	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
993260	Soil	0.6	12.7	8.5	171	<0.1	18.3	11.5	1533	2.56	6.4	0.8	0.4	51	0.9	0.4	0.1	51	0.49	0.066	6
REP 993260	QC	0.7	13.1	8.7	172	<0.1	18.4	11.5	1511	2.60	6.4	1.3	0.5	48	0.9	0.4	0.2	50	0.44	0.067	6
993263	Soil	0.6	20.8	7.5	216	0.2	21.2	11.5	1680	2.42	4.0	<0.5	0.4	61	1.2	0.2	0.1	46	0.62	0.110	6
REP 993263	QC	0.5	20.2	7.4	214	0.2	20.9	11.5	1603	2.42	4.0	<0.5	0.4	61	1.1	0.2	0.1	47	0.61	0.115	6
993305	Soil	2.2	13.7	15.2	250	0.2	16.1	10.0	1176	3.29	10.3	<0.5	0.6	31	0.8	0.5	0.2	69	0.51	0.060	5
REP 993305	QC	2.1	13.5	14.9	243	0.2	15.1	10.0	1214	3.23	9.7	0.9	0.5	32	0.9	0.5	0.2	67	0.54	0.056	5
993308	Soil	1.1	14.5	23.3	420	0.5	11.0	9.2	2360	3.05	8.3	0.7	0.4	26	2.5	0.3	0.2	63	0.41	0.136	6
REP 993308	QC	0.8	14.5	23.0	412	0.4	11.0	9.3	2284	3.16	7.8	0.9	0.5	25	2.3	0.3	0.2	66	0.39	0.136	6
993350	Soil	0.7	12.1	9.6	197	0.2	11.6	7.8	1492	2.13	3.3	<0.5	0.2	24	1.3	0.2	0.1	45	0.39	0.068	4
REP 993350	QC	0.7	12.8	9.6	206	0.2	11.4	7.7	1528	2.12	3.5	<0.5	0.2	25	1.3	0.2	0.1	44	0.42	0.071	5
993356	Soil	0.5	25.8	8.0	378	0.2	14.0	9.0	2409	2.38	4.1	<0.5	0.5	37	3.2	0.3	0.1	52	0.61	0.128	6
REP 993356	QC	0.5	24.2	7.9	379	0.2	14.2	9.4	2357	2.30	4.4	1.4	0.6	37	3.5	0.3	0.1	51	0.61	0.130	5
Reference Materials																					
STD DS9	Standard	12.5	102.8	122.8	307	1.6	37.1	7.3	569	2.27	25.5	102.6	6.6	74	2.4	6.0	6.3	38	0.71	0.083	14
STD DS9	Standard	13.8	113.2	137.2	321	1.8	40.9	8.0	602	2.38	26.5	151.7	7.1	80	2.4	5.8	6.7	43	0.74	0.079	15
STD DS9	Standard	12.7	103.7	122.6	288	1.8	35.9	6.8	551	2.24	24.9	112.5	6.4	72	2.3	5.9	6.0	39	0.68	0.082	14
STD DS9	Standard	13.2	106.9	131.0	310	1.9	40.1	7.6	585	2.27	25.2	109.8	7.1	78	2.4	5.8	6.8	41	0.75	0.082	15
STD DS9	Standard	14.9	124.6	135.4	352	2.0	43.8	9.0	655	2.62	29.0	126.3	6.9	68	2.6	5.2	6.2	46	0.76	0.088	16
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: ZNT  
Report Date: November 08, 2012

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992929	Soil	21	0.51	114	0.030	<1	1.38	0.009	0.05	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 992929	QC	21	0.52	115	0.034	<1	1.38	0.008	0.05	<0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
992932	Soil	19	0.43	85	0.042	<1	1.17	0.008	0.07	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
REP 992932	QC	19	0.42	85	0.039	2	1.12	0.009	0.07	0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
993087	Soil	27	0.61	264	0.038	3	1.71	0.013	0.07	0.1	0.02	7.5	<0.1	<0.05	5	<0.5	<0.2
REP 993087	QC	27	0.61	270	0.052	3	1.67	0.013	0.08	0.1	0.02	7.8	0.1	<0.05	6	0.6	<0.2
993089	Soil	32	0.64	582	0.019	6	2.67	0.012	0.13	<0.1	0.09	12.0	0.2	<0.05	7	0.8	<0.2
REP 993089	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
993260	Soil	20	0.38	274	0.032	3	1.29	0.007	0.12	<0.1	0.04	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 993260	QC	21	0.37	273	0.030	3	1.37	0.007	0.12	<0.1	0.05	3.2	<0.1	<0.05	5	<0.5	<0.2
993263	Soil	19	0.35	333	0.032	3	1.30	0.007	0.08	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
REP 993263	QC	19	0.36	323	0.032	3	1.33	0.007	0.09	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
993305	Soil	20	0.39	371	0.036	4	1.37	0.007	0.08	0.2	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
REP 993305	QC	19	0.37	392	0.035	2	1.28	0.007	0.08	0.1	0.04	4.1	<0.1	<0.05	5	<0.5	<0.2
993308	Soil	17	0.25	496	0.035	2	1.30	0.006	0.09	0.2	0.04	3.3	0.1	<0.05	6	<0.5	<0.2
REP 993308	QC	18	0.24	477	0.036	2	1.19	0.006	0.09	0.2	0.05	3.4	0.1	<0.05	5	<0.5	<0.2
993350	Soil	14	0.25	321	0.028	2	0.90	0.005	0.08	0.1	0.05	2.2	<0.1	<0.05	4	<0.5	<0.2
REP 993350	QC	15	0.27	321	0.028	2	0.90	0.006	0.08	<0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
993356	Soil	17	0.26	460	0.046	4	0.96	0.006	0.07	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
REP 993356	QC	17	0.25	463	0.042	4	0.94	0.006	0.07	0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	114	0.63	313	0.112	2	0.91	0.091	0.39	2.9	0.20	2.5	5.2	0.10	5	5.7	5.4
STD DS9	Standard	124	0.61	316	0.122	3	0.94	0.094	0.40	3.1	0.21	3.0	5.6	0.18	5	5.4	5.8
STD DS9	Standard	110	0.61	296	0.115	3	0.91	0.086	0.40	2.9	0.22	2.6	5.3	0.09	5	4.4	4.6
STD DS9	Standard	123	0.64	308	0.120	3	0.95	0.088	0.40	3.1	0.22	2.6	5.3	0.19	5	5.9	5.3
STD DS9	Standard	126	0.70	344	0.113	3	1.07	0.088	0.44	2.9	0.21	2.9	5.8	0.23	5	5.6	5.8
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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QUALITY CONTROL REPORT

SMI12000521.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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QUALITY CONTROL REPORT

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





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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 29, 2012

Report Date: November 07, 2012

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## CERTIFICATE OF ANALYSIS

SMI12000522.1

### CLIENT JOB INFORMATION

Project: ZNT  
Shipment ID: GALA\_SSN12-12\_201210  
P.O. Number: QZM-ZNT-12  
Number of Samples: 107

### 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: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	107	Dry at 60C			SMI
SS80	107	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	107	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS



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



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Project: ZNT  
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CERTIFICATE OF ANALYSIS

SMI12000522.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
992955	Soil	0.5	10.1	6.0	103	<0.1	15.7	7.5	744	2.29	3.4	0.9	0.6	21	0.5	0.3	0.1	45	0.26	0.052	6
992956	Soil	0.8	24.3	14.4	158	0.3	20.9	12.3	1325	3.03	8.0	<0.5	0.7	35	0.9	0.5	0.2	58	0.72	0.049	7
992957	Soil	0.9	56.4	12.2	161	0.4	36.9	12.3	1198	3.60	10.5	1.0	1.1	55	0.6	0.6	0.2	64	0.85	0.075	25
992958	Soil	0.8	73.0	11.6	172	0.7	52.3	12.7	1058	3.96	13.0	<0.5	1.3	59	1.6	0.6	0.2	68	0.84	0.078	23
992959	Soil	1.1	80.8	14.9	252	1.2	55.7	14.6	1190	4.88	15.9	0.9	1.9	64	2.6	0.9	0.2	81	0.92	0.115	26
992960	Soil	0.5	14.0	6.6	138	<0.1	19.9	8.9	571	2.75	7.5	<0.5	0.6	29	0.4	0.4	<0.1	53	0.38	0.054	5
992961	Soil	0.8	66.6	10.3	249	0.7	39.8	12.7	1526	3.40	7.8	<0.5	1.1	68	2.3	0.5	0.2	58	1.16	0.065	16
992963	Soil	0.5	12.9	7.7	183	0.1	16.9	8.3	947	2.60	5.2	<0.5	1.0	27	0.5	0.4	<0.1	52	0.36	0.121	7
992964	Soil	0.7	31.3	7.6	168	0.2	21.7	9.9	898	2.59	5.3	<0.5	0.3	61	1.3	0.4	0.1	50	0.68	0.100	8
992965	Soil	0.6	12.9	7.8	132	0.1	18.3	8.3	535	2.83	14.4	<0.5	0.8	31	0.2	0.4	0.1	59	0.27	0.073	7
992966	Soil	0.7	37.6	10.1	214	0.2	28.9	12.8	1411	3.40	11.3	<0.5	0.9	54	0.9	0.7	0.1	62	0.51	0.090	9
992967	Soil	0.8	27.5	12.1	172	0.1	22.2	12.6	1036	3.10	16.2	<0.5	0.3	35	1.3	0.5	0.1	61	0.25	0.122	7
992968	Soil	0.8	79.9	11.2	216	1.0	66.5	14.8	770	4.17	16.1	<0.5	1.5	82	1.4	0.3	0.3	75	0.70	0.127	16
992969	Soil	0.5	19.1	7.2	219	0.2	20.5	9.2	1106	2.82	7.2	<0.5	0.6	49	0.4	0.4	0.1	58	0.42	0.115	7
992970	Soil	0.6	18.6	8.6	104	<0.1	21.2	10.7	644	3.11	11.2	<0.5	0.9	44	0.3	0.5	0.1	66	0.35	0.037	6
992971	Soil	0.8	36.8	8.2	128	0.3	38.8	11.1	846	3.15	9.4	<0.5	0.5	64	0.5	0.4	0.2	61	0.55	0.080	12
992977	Soil	0.9	60.7	11.8	147	0.4	40.2	16.9	1413	3.70	12.1	<0.5	1.0	79	0.8	0.4	0.2	69	0.67	0.082	14
992978	Soil	0.7	26.4	6.9	108	0.1	22.6	10.7	883	2.77	8.4	<0.5	0.7	49	0.4	0.4	0.2	58	0.47	0.062	9
992979	Soil	0.6	15.7	7.1	119	<0.1	20.5	10.6	885	2.61	6.5	<0.5	0.6	34	0.3	0.3	0.1	54	0.28	0.051	7
992980	Soil	0.5	16.3	8.0	183	<0.1	15.2	11.6	1291	2.52	5.0	<0.5	0.5	47	0.4	0.3	0.2	50	0.39	0.109	6
992981	Soil	0.7	19.2	10.0	206	0.1	17.0	10.3	1049	2.99	12.5	<0.5	0.4	48	0.5	0.5	0.1	60	0.44	0.096	6
992982	Soil	0.6	14.4	7.3	142	<0.1	19.3	9.6	678	2.90	8.4	<0.5	0.9	34	0.4	0.5	0.1	57	0.35	0.085	6
992984	Soil	0.6	38.3	12.0	111	0.4	24.3	10.0	932	3.12	17.2	<0.5	0.6	60	0.9	0.5	0.1	59	0.95	0.069	8
992985	Soil	0.5	25.9	10.5	88	0.2	20.5	9.7	475	3.06	12.5	<0.5	0.7	36	1.3	0.5	0.2	60	0.57	0.030	6
992986	Soil	0.5	33.8	10.6	124	0.2	22.9	9.5	717	2.94	9.2	<0.5	0.8	38	1.2	0.4	0.1	59	0.49	0.045	7
992987	Soil	0.4	15.2	7.7	114	0.1	19.2	7.7	658	2.58	8.6	<0.5	0.7	34	0.6	0.4	0.1	53	0.34	0.035	7
992988	Soil	0.6	10.0	7.7	127	0.1	13.6	8.6	1178	2.56	5.6	<0.5	0.5	39	0.6	0.3	0.1	54	0.43	0.103	6
992989	Soil	0.7	20.4	8.3	199	<0.1	18.3	11.0	1553	2.69	8.5	<0.5	0.6	35	0.8	0.4	0.1	56	0.46	0.044	6
992990	Soil	0.8	61.4	12.5	197	0.7	40.0	14.1	1579	3.94	12.8	<0.5	1.0	66	1.3	0.7	0.2	71	1.04	0.099	13
992991	Soil	0.5	11.5	6.5	123	0.2	17.6	7.9	561	2.69	7.1	<0.5	0.6	23	0.3	0.4	0.1	56	0.40	0.034	6

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Project: ZNT  
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992955	Soil	18	0.41	127	0.054	2	1.02	0.008	0.06	0.2	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
992956	Soil	23	0.52	205	0.037	3	1.43	0.010	0.08	0.2	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
992957	Soil	34	0.69	318	0.019	2	2.48	0.014	0.12	0.1	0.06	11.1	<0.1	<0.05	7	1.0	<0.2
992958	Soil	37	0.75	372	0.013	2	2.95	0.014	0.15	<0.1	0.06	14.4	<0.1	<0.05	8	<0.5	<0.2
992959	Soil	41	0.78	447	0.014	2	3.69	0.020	0.16	0.1	0.06	20.1	0.1	<0.05	9	0.8	<0.2
992960	Soil	20	0.52	164	0.050	3	1.22	0.010	0.05	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
992961	Soil	29	0.66	356	0.017	4	2.35	0.014	0.13	0.1	0.05	8.4	<0.1	<0.05	6	<0.5	<0.2
992963	Soil	19	0.43	222	0.058	3	1.07	0.011	0.11	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
992964	Soil	21	0.46	235	0.038	2	1.46	0.010	0.12	0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
992965	Soil	21	0.51	167	0.056	2	1.32	0.011	0.06	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
992966	Soil	27	0.67	320	0.040	4	1.80	0.011	0.13	0.1	0.05	6.5	<0.1	<0.05	5	<0.5	<0.2
992967	Soil	22	0.45	224	0.035	2	1.45	0.009	0.09	0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
992968	Soil	41	0.83	505	0.008	3	4.14	0.025	0.29	<0.1	0.06	12.4	<0.1	<0.05	10	0.7	<0.2
992969	Soil	22	0.51	259	0.045	3	1.49	0.012	0.08	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
992970	Soil	23	0.53	146	0.064	1	1.32	0.013	0.07	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
992971	Soil	30	0.66	222	0.018	3	2.27	0.015	0.16	<0.1	0.05	6.6	<0.1	<0.05	7	<0.5	<0.2
992977	Soil	32	0.79	318	0.014	2	2.73	0.016	0.16	0.1	0.05	8.7	<0.1	<0.05	7	<0.5	<0.2
992978	Soil	27	0.65	199	0.034	5	1.80	0.012	0.13	0.2	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
992979	Soil	21	0.52	156	0.045	2	1.51	0.012	0.07	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
992980	Soil	19	0.43	231	0.043	3	1.28	0.009	0.11	0.1	0.04	3.1	<0.1	<0.05	5	<0.5	<0.2
992981	Soil	20	0.47	270	0.039	3	1.25	0.009	0.11	0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
992982	Soil	21	0.55	167	0.063	2	1.22	0.011	0.07	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
992984	Soil	24	0.60	355	0.024	2	1.67	0.019	0.07	<0.1	0.06	7.1	<0.1	<0.05	5	0.9	<0.2
992985	Soil	21	0.48	257	0.048	2	1.39	0.011	0.08	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
992986	Soil	22	0.48	235	0.043	2	1.37	0.010	0.09	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
992987	Soil	20	0.50	186	0.053	2	1.28	0.011	0.06	0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
992988	Soil	18	0.38	248	0.045	4	1.07	0.007	0.10	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
992989	Soil	20	0.43	289	0.056	4	1.14	0.010	0.11	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
992990	Soil	34	0.80	327	0.025	7	2.68	0.017	0.16	0.2	0.07	9.4	<0.1	<0.05	7	<0.5	<0.2
992991	Soil	20	0.47	141	0.050	3	1.35	0.009	0.07	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2

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Project: ZNT  
 Report Date: November 07, 2012

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
992992	Soil	0.7	48.5	17.9	437	0.9	32.7	12.7	1883	3.22	9.3	<0.5	0.8	40	3.5	0.5	0.2	57	1.09	0.075	35
992993	Soil	2.5	41.0	6.1	207	0.4	8.6	21.5	3807	7.21	8.7	<0.5	0.5	26	1.4	0.3	0.2	158	0.93	0.195	3
992994	Soil	0.5	18.1	7.3	87	<0.1	22.6	10.0	662	2.92	7.8	<0.5	0.9	24	<0.1	0.5	<0.1	56	0.27	0.056	8
992995	Soil	0.6	15.9	7.6	84	0.1	20.1	8.6	585	2.71	7.7	<0.5	0.6	28	0.3	0.4	0.1	56	0.25	0.039	7
993015	Soil	0.8	18.6	14.3	565	0.3	12.5	10.1	1583	2.36	6.4	<0.5	0.3	35	21.5	0.3	0.2	54	0.95	0.039	5
993016	Soil	0.7	39.6	18.1	313	0.7	12.3	9.9	1376	2.80	12.8	<0.5	0.2	20	3.5	0.3	0.1	54	0.64	0.059	6
993020	Soil	1.0	18.9	14.0	135	<0.1	19.9	7.8	430	3.24	9.9	2.0	0.9	13	0.5	0.5	0.2	56	0.17	0.114	5
993021	Soil	1.0	14.5	13.3	187	0.3	17.5	10.4	1510	2.84	9.6	1.3	0.2	37	1.4	0.4	0.2	57	0.42	0.063	4
993022	Soil	0.7	10.2	7.6	79	<0.1	6.8	3.2	259	1.78	3.4	5.0	0.2	28	1.1	0.3	0.2	44	0.44	0.031	4
993023	Soil	0.5	30.5	20.1	129	0.3	26.9	11.8	1530	3.55	10.1	1.4	1.1	38	1.0	0.5	0.2	59	0.96	0.048	10
993024	Soil	0.7	67.0	13.3	227	0.4	34.0	11.5	1952	3.29	7.4	1.3	0.8	55	1.3	0.4	0.3	52	1.63	0.094	25
993025	Soil	0.8	12.9	12.1	134	<0.1	11.6	9.2	2473	2.46	5.1	2.0	0.2	21	0.6	0.3	0.3	50	0.25	0.054	5
993026	Soil	0.6	14.8	11.6	159	0.1	20.1	9.4	608	3.23	13.7	1.5	0.4	25	0.4	0.5	0.2	63	0.30	0.045	4
993028	Soil	0.6	101.8	10.4	220	0.4	45.2	12.5	1594	3.27	8.4	2.2	1.3	63	1.3	0.6	0.2	52	1.25	0.093	51
993029	Soil	0.5	53.6	10.0	198	0.4	37.5	11.4	1152	3.14	6.9	2.2	0.8	46	1.1	0.5	0.2	52	0.89	0.068	14
993030	Soil	0.7	19.9	9.4	184	0.2	16.8	9.6	1398	2.37	4.0	0.9	0.3	37	2.1	0.3	0.2	45	0.66	0.052	5
993031	Soil	0.5	11.4	7.3	148	<0.1	12.5	6.5	474	2.18	4.3	0.7	0.3	28	2.0	0.4	0.1	44	0.42	0.057	4
993032	Soil	0.7	73.7	11.6	212	0.6	40.3	12.2	1037	3.53	10.3	2.1	1.0	70	2.5	0.6	0.2	59	1.02	0.099	23
993033	Soil	0.6	61.9	11.9	191	0.7	48.4	12.4	1009	4.24	9.9	2.4	1.3	85	1.4	0.7	0.3	72	0.96	0.101	16
993034	Soil	1.1	94.2	12.0	211	1.1	64.7	14.1	1242	4.94	11.3	1.7	1.9	86	2.3	0.7	0.3	74	1.05	0.173	25
993035	Soil	0.9	17.1	9.4	179	0.1	17.9	9.8	1721	2.96	7.0	1.1	0.3	30	1.1	0.4	0.2	60	0.36	0.082	7
993036	Soil	0.6	22.7	7.9	142	0.3	25.4	9.7	856	3.02	7.6	1.6	0.9	41	0.6	0.4	0.1	51	0.50	0.050	10
993037	Soil	0.6	6.1	7.2	155	0.1	10.1	7.0	1597	2.12	2.6	1.1	0.4	18	1.5	0.3	0.1	39	0.28	0.065	4
993141	Soil	0.7	30.4	9.7	82	0.1	27.2	11.4	818	3.24	12.1	2.8	1.2	39	0.2	0.6	0.1	59	0.40	0.059	9
993142	Soil	0.6	10.3	6.2	89	<0.1	16.1	6.9	372	2.55	7.4	1.3	0.4	27	0.4	0.4	<0.1	49	0.25	0.048	5
993144	Soil	0.9	64.8	12.2	195	0.6	39.6	13.2	1440	3.86	10.1	3.2	1.4	64	2.6	0.7	0.2	60	0.79	0.068	20
993145	Soil	0.5	39.9	10.5	182	0.5	16.4	8.5	814	2.31	5.3	0.7	0.4	55	2.6	0.3	0.2	44	0.73	0.103	8
993146	Soil	0.9	22.6	15.6	140	<0.1	27.7	11.5	851	3.70	16.6	0.6	1.1	25	0.5	0.7	0.1	66	0.33	0.075	6
993147	Soil	0.7	19.1	9.2	127	0.1	21.9	11.2	900	3.19	9.8	1.2	1.0	34	0.4	0.6	<0.1	58	0.43	0.043	7
993149	Soil	0.7	56.3	11.8	204	0.6	36.4	11.3	1276	3.32	9.7	2.4	0.9	57	2.3	0.8	0.2	56	1.17	0.076	14

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
992992	Soil	29	0.60	418	0.017	4	2.52	0.016	0.13	0.1	0.07	10.7	<0.1	<0.05	6	<0.5	<0.2
992993	Soil	12	0.76	413	0.010	3	2.06	0.005	0.16	0.1	0.06	10.6	<0.1	<0.05	10	<0.5	<0.2
992994	Soil	24	0.56	134	0.052	2	1.53	0.011	0.07	0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
992995	Soil	22	0.57	131	0.045	2	1.50	0.013	0.06	0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
993015	Soil	15	0.27	318	0.040	3	0.83	0.006	0.08	0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
993016	Soil	17	0.33	411	0.022	3	1.36	0.006	0.10	<0.1	0.05	3.1	0.2	<0.05	5	<0.5	<0.2
993020	Soil	21	0.42	139	0.021	2	1.95	0.005	0.14	0.2	0.03	3.8	<0.1	<0.05	5	<0.5	<0.2
993021	Soil	19	0.31	258	0.028	2	1.28	0.006	0.06	0.2	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
993022	Soil	12	0.10	220	0.028	<1	0.47	0.006	0.05	0.2	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
993023	Soil	28	0.59	502	0.018	3	2.19	0.012	0.08	0.2	0.04	8.3	<0.1	<0.05	6	<0.5	<0.2
993024	Soil	27	0.58	1021	0.017	3	2.53	0.009	0.12	0.1	0.08	7.4	<0.1	<0.05	7	<0.5	<0.2
993025	Soil	15	0.22	592	0.028	1	0.98	0.006	0.06	0.2	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
993026	Soil	21	0.47	175	0.035	2	1.43	0.007	0.08	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
993028	Soil	32	0.61	642	0.013	3	2.59	0.010	0.14	0.1	0.08	12.3	<0.1	<0.05	6	<0.5	<0.2
993029	Soil	28	0.57	553	0.017	3	2.05	0.011	0.13	0.1	0.05	6.9	<0.1	<0.05	6	<0.5	<0.2
993030	Soil	17	0.34	224	0.034	3	1.03	0.007	0.08	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
993031	Soil	16	0.32	152	0.038	1	0.87	0.006	0.06	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
993032	Soil	32	0.65	517	0.018	2	2.47	0.011	0.13	0.2	0.05	11.2	<0.1	0.05	7	<0.5	<0.2
993033	Soil	43	0.80	604	0.016	3	3.69	0.023	0.16	0.1	0.07	13.5	0.2	<0.05	9	<0.5	<0.2
993034	Soil	47	0.89	684	0.015	2	4.53	0.020	0.24	0.1	0.06	17.6	0.2	<0.05	11	<0.5	<0.2
993035	Soil	21	0.38	235	0.031	1	1.31	0.007	0.09	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
993036	Soil	26	0.59	230	0.024	1	1.85	0.009	0.08	0.1	0.03	6.8	<0.1	<0.05	5	<0.5	<0.2
993037	Soil	14	0.25	230	0.039	2	0.85	0.007	0.08	0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
993141	Soil	26	0.64	164	0.046	1	1.67	0.011	0.08	<0.1	0.03	6.8	<0.1	<0.05	5	<0.5	<0.2
993142	Soil	18	0.41	130	0.038	1	1.12	0.007	0.04	0.1	0.01	2.9	<0.1	0.05	4	<0.5	<0.2
993144	Soil	32	0.72	368	0.024	3	2.54	0.010	0.13	0.2	0.04	14.4	0.1	0.13	7	<0.5	<0.2
993145	Soil	17	0.25	374	0.029	3	1.00	0.008	0.08	0.1	0.03	3.5	<0.1	0.07	4	<0.5	<0.2
993146	Soil	24	0.61	172	0.044	1	1.63	0.008	0.08	0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
993147	Soil	25	0.64	186	0.039	2	1.70	0.022	0.07	0.1	0.02	6.8	<0.1	0.06	5	<0.5	<0.2
993149	Soil	29	0.58	379	0.022	2	2.15	0.013	0.13	0.2	0.05	8.3	<0.1	0.10	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
993290	Soil		0.7	66.0	9.7	211	0.6	36.8	11.1	1228	3.17	6.4	1.4	0.9	60	2.6	0.6	0.2	48	1.54	0.066	15
993291	Soil		0.4	16.3	8.2	81	<0.1	19.2	9.6	584	2.78	6.6	1.3	0.9	26	0.5	0.4	0.1	53	0.36	0.020	6
993292	Soil		0.4	8.9	6.5	91	0.1	9.8	5.1	507	1.84	3.1	<0.5	0.3	24	0.8	0.3	0.1	39	0.32	0.040	5
993293	Soil		0.6	11.6	7.4	84	0.1	12.1	6.2	411	2.06	4.8	<0.5	0.2	30	0.7	0.3	<0.1	41	0.48	0.040	6
993294	Soil		0.6	26.9	11.3	216	0.2	21.6	12.2	2158	2.66	4.5	0.8	0.2	42	1.8	0.3	0.1	47	0.55	0.086	11
993295	Soil		0.7	84.9	10.5	190	1.2	43.1	11.0	1100	3.30	10.3	3.6	1.1	68	3.8	0.7	0.2	52	1.51	0.082	22
993296	Soil		0.6	15.5	9.6	132	0.1	18.3	10.0	1489	2.68	8.6	0.7	0.3	40	0.8	0.4	0.1	51	0.47	0.069	5
993297	Soil		0.6	14.8	10.4	140	0.2	16.8	7.9	903	2.34	7.1	7.7	0.3	49	1.5	0.4	0.1	44	0.57	0.058	8
993298	Soil		0.6	43.0	11.5	186	0.4	25.6	10.9	1589	3.16	8.4	<0.5	1.3	36	2.4	0.4	0.2	55	1.35	0.058	10
993299	Soil		0.8	94.5	21.2	542	1.5	40.4	12.1	1119	3.68	13.2	2.3	1.3	46	11.9	0.5	0.2	59	1.43	0.080	31
993328	Soil		0.6	9.5	7.1	138	0.4	11.8	5.9	781	1.92	4.6	3.3	0.2	39	0.9	0.3	<0.1	40	0.46	0.043	5
993329	Soil		1.0	66.1	11.2	446	2.2	50.8	11.6	1303	4.10	7.9	0.6	1.5	86	2.6	0.5	0.2	61	1.19	0.099	16
993330	Soil		1.2	19.9	11.1	198	0.2	14.8	10.6	2141	2.29	6.3	0.9	0.1	44	1.2	0.3	0.3	43	0.51	0.081	6
993331	Soil		0.7	11.9	7.8	98	0.1	11.6	6.9	238	2.39	6.0	<0.5	0.5	27	0.4	0.2	0.2	55	0.28	0.018	4
993332	Soil		0.6	31.7	12.3	120	0.6	25.0	10.1	798	3.21	10.5	4.1	0.7	61	1.2	0.5	0.2	60	0.79	0.042	6
993333	Soil		0.4	12.6	7.7	137	<0.1	14.9	9.0	684	2.51	5.7	<0.5	0.5	39	1.2	0.3	0.2	52	0.46	0.103	5
993334	Soil		0.6	16.9	7.8	122	0.2	21.2	10.0	1094	2.64	5.6	<0.5	0.4	34	1.1	0.4	0.1	48	0.37	0.042	7
993335	Soil		0.5	64.4	9.7	167	0.6	42.4	11.8	1414	3.63	9.7	0.9	1.4	51	0.7	0.4	0.2	58	0.65	0.075	22
993336	Soil		0.7	49.0	9.4	108	0.4	31.2	10.3	925	2.99	8.8	0.5	0.4	46	0.9	0.4	0.1	53	0.62	0.071	18
993337	Soil		0.6	29.9	8.7	102	0.2	22.5	10.0	794	2.75	8.3	<0.5	0.5	32	0.5	0.4	0.1	56	0.42	0.045	12
993338	Soil		0.6	40.3	10.4	121	0.4	27.0	10.8	1303	3.16	7.7	1.3	0.4	33	0.6	0.4	0.2	57	0.49	0.052	16
993339	Soil		0.6	13.6	7.0	90	<0.1	16.3	7.7	568	2.39	6.8	<0.5	0.4	30	0.2	0.4	<0.1	45	0.47	0.037	9
993340	Soil		0.7	24.5	19.5	156	0.1	19.0	9.4	1662	2.78	9.8	0.8	0.4	30	0.7	0.3	0.2	53	0.53	0.043	5
993341	Soil		0.5	24.8	8.8	152	0.2	20.3	9.8	1672	2.51	6.7	<0.5	0.4	43	1.0	0.3	0.1	46	1.18	0.061	6
993342	Soil		0.7	14.5	10.1	111	<0.1	14.1	6.9	320	2.89	12.5	1.4	0.4	16	0.1	0.5	0.1	58	0.21	0.044	5
993343	Soil		0.6	10.3	8.6	60	<0.1	7.0	5.6	360	2.13	5.8	<0.5	0.2	11	0.3	0.3	0.1	51	0.10	0.027	5
993344	Soil		0.8	28.0	17.1	201	0.2	9.1	12.0	2287	3.51	9.8	<0.5	0.1	20	0.7	0.3	0.2	53	0.36	0.125	11
993345	Soil		0.6	15.5	9.4	77	<0.1	16.1	6.4	357	2.79	8.8	2.0	0.5	16	<0.1	0.4	0.1	55	0.18	0.033	7
993346	Soil		0.6	8.9	7.3	114	<0.1	11.3	6.7	1916	2.15	4.8	0.9	0.2	21	0.6	0.3	0.1	44	0.35	0.037	5
993348	Soil		0.6	17.6	46.0	161	0.3	10.0	9.2	834	2.67	10.4	<0.5	0.1	21	1.5	0.4	0.2	48	0.33	0.056	6

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993290	Soil	26	0.63	480	0.011	4	2.11	0.011	0.11	0.1	0.06	7.6	<0.1	0.10	6	0.6	<0.2
993291	Soil	21	0.51	169	0.053	1	1.19	0.010	0.05	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
993292	Soil	13	0.23	144	0.039	2	0.75	0.006	0.05	0.1	0.03	2.3	<0.1	0.06	4	<0.5	<0.2
993293	Soil	14	0.31	231	0.027	2	0.87	0.006	0.04	0.1	0.06	2.4	<0.1	0.05	3	<0.5	<0.2
993294	Soil	19	0.42	306	0.029	3	1.32	0.006	0.10	0.1	0.03	3.4	<0.1	0.06	5	<0.5	<0.2
993295	Soil	33	0.77	637	0.010	4	2.73	0.011	0.15	<0.1	0.11	12.0	0.2	0.13	7	<0.5	<0.2
993296	Soil	19	0.43	478	0.038	1	1.04	0.006	0.09	<0.1	0.03	2.9	<0.1	0.05	4	<0.5	<0.2
993297	Soil	18	0.41	290	0.029	2	1.17	0.007	0.07	0.1	0.03	3.2	<0.1	0.06	4	<0.5	<0.2
993298	Soil	24	0.60	519	0.029	3	1.95	0.009	0.09	0.1	0.05	6.7	0.1	0.07	5	<0.5	<0.2
993299	Soil	34	0.68	658	0.015	3	2.92	0.013	0.14	0.2	0.06	13.2	0.5	0.09	7	<0.5	<0.2
993328	Soil	14	0.30	189	0.029	2	0.86	0.006	0.07	<0.1	0.05	2.3	<0.1	0.05	4	<0.5	<0.2
993329	Soil	40	0.81	640	0.011	2	4.06	0.015	0.17	0.1	0.07	14.3	0.1	0.09	10	<0.5	<0.2
993330	Soil	16	0.32	292	0.019	2	1.02	0.006	0.10	0.1	0.04	2.5	<0.1	<0.05	4	<0.5	<0.2
993331	Soil	17	0.27	149	0.030	2	1.03	0.006	0.03	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
993332	Soil	24	0.57	241	0.022	4	1.59	0.013	0.08	0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
993333	Soil	17	0.36	221	0.043	2	0.98	0.007	0.08	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
993334	Soil	20	0.42	207	0.031	2	1.29	0.007	0.07	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
993335	Soil	35	0.69	464	0.010	1	2.99	0.008	0.11	0.1	0.07	13.2	<0.1	<0.05	7	0.5	<0.2
993336	Soil	26	0.62	438	0.012	2	2.22	0.009	0.08	<0.1	0.06	6.4	<0.1	<0.05	6	<0.5	<0.2
993337	Soil	24	0.53	431	0.021	1	1.83	0.009	0.06	<0.1	0.03	5.7	<0.1	<0.05	6	0.5	<0.2
993338	Soil	26	0.58	596	0.014	1	2.04	0.008	0.07	0.1	0.04	5.9	<0.1	<0.05	6	<0.5	<0.2
993339	Soil	17	0.43	378	0.026	1	1.18	0.006	0.05	0.1	0.06	3.4	<0.1	<0.05	4	<0.5	<0.2
993340	Soil	20	0.44	580	0.023	1	1.53	0.007	0.05	0.2	0.04	3.7	<0.1	<0.05	5	<0.5	<0.2
993341	Soil	20	0.41	614	0.015	3	1.59	0.007	0.06	0.1	0.05	3.9	<0.1	0.06	5	<0.5	<0.2
993342	Soil	19	0.36	191	0.024	2	1.41	0.009	0.04	0.1	0.03	3.2	<0.1	0.05	5	<0.5	<0.2
993343	Soil	13	0.13	197	0.019	2	0.78	0.005	0.05	0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
993344	Soil	14	0.14	1162	0.006	5	2.01	0.005	0.11	0.2	0.05	4.6	0.1	0.07	8	<0.5	<0.2
993345	Soil	19	0.40	478	0.022	1	1.51	0.009	0.04	0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
993346	Soil	13	0.22	453	0.026	1	0.99	0.006	0.05	0.1	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
993348	Soil	16	0.20	478	0.017	2	1.05	0.005	0.06	0.1	0.05	2.8	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
993349	Soil	0.6	13.5	6.3	143	<0.1	15.4	7.9	529	2.57	8.3	<0.5	0.6	27	0.3	0.3	0.1	51	0.28	0.067	6
993366	Soil	0.7	20.2	8.2	150	0.1	18.8	9.6	634	2.93	11.6	<0.5	0.5	32	0.7	0.4	0.1	59	0.30	0.044	6
993368	Soil	0.8	20.5	9.9	108	0.1	19.7	10.5	656	2.93	15.2	1.5	0.6	35	0.4	0.6	0.1	54	0.34	0.046	8
993369	Soil	0.6	23.8	12.9	79	0.1	21.0	12.4	976	3.23	16.2	1.5	1.1	41	0.2	0.6	<0.1	61	0.47	0.057	8
993370	Soil	0.6	40.3	11.7	130	0.3	27.6	12.8	1264	3.25	15.0	1.9	0.9	64	0.5	0.6	0.1	56	0.96	0.068	11
993371	Soil	0.5	11.9	8.6	107	<0.1	14.1	7.5	528	2.43	4.5	0.8	0.7	25	0.6	0.3	<0.1	45	0.30	0.047	5
993372	Soil	0.6	32.6	20.1	225	0.3	21.2	13.0	2145	3.12	12.2	0.5	0.7	66	1.3	0.5	0.2	57	0.68	0.061	11
993373	Soil	0.7	111.9	18.9	318	1.1	54.7	14.0	1663	4.26	19.2	1.1	1.5	75	4.1	0.8	0.2	66	1.37	0.094	20
993374	Soil	0.5	11.6	8.3	136	0.2	12.0	7.1	466	2.49	6.3	<0.5	0.6	28	0.7	0.3	0.1	52	0.35	0.052	5
993375	Soil	0.7	21.3	9.5	148	0.2	17.8	9.6	727	2.79	10.6	0.8	0.7	35	1.1	0.5	0.1	52	0.74	0.043	6
993376	Soil	0.5	10.0	8.3	140	<0.1	13.1	7.1	577	2.55	7.5	0.5	0.7	29	0.7	0.3	0.1	49	0.30	0.043	5
993377	Soil	0.5	16.5	10.9	199	0.3	16.2	8.9	1266	2.80	6.9	1.0	0.7	40	0.7	0.5	0.1	52	0.55	0.032	7
993378	Soil	0.4	17.4	9.9	74	0.2	15.9	8.5	632	2.87	11.6	1.1	0.8	28	0.4	0.4	<0.1	54	0.38	0.019	6
993379	Soil	0.5	18.1	8.1	178	0.2	15.5	8.5	696	2.62	8.9	<0.5	0.7	23	1.8	0.4	0.1	56	0.37	0.026	5
993380	Soil	0.8	22.9	18.4	251	0.4	17.4	13.1	2295	3.76	11.9	<0.5	0.4	42	1.4	0.5	0.3	70	0.89	0.136	5
993381	Soil	0.8	10.4	9.3	135	0.1	13.7	7.6	1294	2.69	7.8	<0.5	0.3	19	0.5	0.4	<0.1	57	0.17	0.035	5
993382	Soil	0.6	11.9	5.1	70	<0.1	16.7	6.3	369	2.41	5.9	0.7	0.6	24	0.1	0.4	<0.1	47	0.21	0.048	6



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
993349	Soil	19	0.36	165	0.053	2	1.07	0.008	0.09	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
993366	Soil	21	0.39	168	0.051	2	1.21	0.007	0.08	0.1	0.02	3.9	<0.1	<0.05	4	0.7	<0.2
993368	Soil	20	0.45	214	0.037	2	1.35	0.007	0.08	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
993369	Soil	22	0.53	159	0.050	1	1.34	0.017	0.08	0.1	0.05	6.4	<0.1	<0.05	4	<0.5	<0.2
993370	Soil	25	0.57	291	0.031	5	1.80	0.014	0.13	0.1	0.08	7.7	<0.1	<0.05	5	1.4	<0.2
993371	Soil	16	0.34	165	0.051	2	0.91	0.007	0.06	0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
993372	Soil	22	0.46	299	0.031	4	1.63	0.016	0.10	0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2
993373	Soil	37	0.72	627	0.017	2	2.97	0.018	0.12	<0.1	0.07	16.5	0.1	0.09	8	0.9	<0.2
993374	Soil	16	0.29	180	0.046	1	0.95	0.007	0.08	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
993375	Soil	20	0.41	214	0.037	3	1.29	0.010	0.07	0.1	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2
993376	Soil	17	0.32	194	0.046	3	1.08	0.009	0.05	0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
993377	Soil	19	0.39	215	0.039	3	1.30	0.008	0.08	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
993378	Soil	21	0.41	212	0.040	<1	1.18	0.010	0.04	<0.1	0.02	4.5	<0.1	<0.05	4	0.6	<0.2
993379	Soil	19	0.32	208	0.054	<1	1.17	0.008	0.07	0.1	0.01	3.5	<0.1	<0.05	4	0.7	<0.2
993380	Soil	24	0.42	280	0.023	3	1.63	0.006	0.13	0.2	0.05	5.6	<0.1	0.06	6	<0.5	<0.2
993381	Soil	17	0.33	211	0.034	1	1.12	0.006	0.05	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
993382	Soil	18	0.43	113	0.034	<1	1.16	0.006	0.04	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2



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**Project:** ZNT  
**Report Date:** November 07, 2012

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Part: 1 of 1

# QUALITY CONTROL REPORT

SMI12000522.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
992960	Soil	0.5	14.0	6.6	138	<0.1	19.9	8.9	571	2.75	7.5	<0.5	0.6	29	0.4	0.4	<0.1	53	0.38	0.054	5
REP 992960	QC	0.6	14.2	6.8	143	<0.1	19.3	8.9	592	2.80	7.3	<0.5	0.7	31	0.5	0.4	0.1	57	0.40	0.054	5
992970	Soil	0.6	18.6	8.6	104	<0.1	21.2	10.7	644	3.11	11.2	<0.5	0.9	44	0.3	0.5	0.1	66	0.35	0.037	6
REP 992970	QC	0.5	18.3	8.7	101	<0.1	20.8	11.0	640	3.06	11.0	0.8	0.8	44	0.3	0.5	0.1	68	0.36	0.034	6
993026	Soil	0.6	14.8	11.6	159	0.1	20.1	9.4	608	3.23	13.7	1.5	0.4	25	0.4	0.5	0.2	63	0.30	0.045	4
REP 993026	QC	0.8	15.9	12.1	166	0.1	19.5	9.5	639	3.36	13.8	2.7	0.4	26	0.5	0.6	0.2	65	0.32	0.048	5
993037	Soil	0.6	6.1	7.2	155	0.1	10.1	7.0	1597	2.12	2.6	1.1	0.4	18	1.5	0.3	0.1	39	0.28	0.065	4
REP 993037	QC	0.4	6.0	7.2	154	0.1	10.2	7.1	1657	2.08	2.3	3.7	0.3	18	1.5	0.2	0.1	40	0.28	0.064	4
993334	Soil	0.6	16.9	7.8	122	0.2	21.2	10.0	1094	2.64	5.6	<0.5	0.4	34	1.1	0.4	0.1	48	0.37	0.042	7
REP 993334	QC	0.5	19.3	8.3	134	0.2	20.6	9.5	1158	2.53	5.8	<0.5	0.3	34	1.1	0.4	0.2	51	0.37	0.042	7
993348	Soil	0.6	17.6	46.0	161	0.3	10.0	9.2	834	2.67	10.4	<0.5	0.1	21	1.5	0.4	0.2	48	0.33	0.056	6
REP 993348	QC	0.7	17.3	44.7	158	0.3	11.1	9.5	829	2.71	10.5	<0.5	0.1	21	1.4	0.4	0.2	48	0.32	0.054	5
Reference Materials																					
STD DS9	Standard	13.2	111.5	135.6	316	1.8	41.5	7.8	574	2.34	25.8	113.8	6.8	73	2.5	5.7	7.0	41	0.71	0.085	13
STD DS9	Standard	12.5	108.2	127.1	304	2.0	40.2	7.9	577	2.36	25.4	114.0	6.5	75	2.5	6.1	7.0	41	0.75	0.080	14
STD DS9	Standard	13.3	110.5	131.6	314	2.0	42.4	7.7	621	2.41	24.9	146.3	7.3	80	2.2	5.9	6.8	46	0.76	0.081	16
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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**Project:** ZNT  
**Report Date:** November 07, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000522.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
992960	Soil	20	0.52	164	0.050	3	1.22	0.010	0.05	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
REP 992960	QC	20	0.53	169	0.055	2	1.28	0.011	0.06	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
992970	Soil	23	0.53	146	0.064	1	1.32	0.013	0.07	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
REP 992970	QC	23	0.54	149	0.063	2	1.34	0.015	0.07	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
993026	Soil	21	0.47	175	0.035	2	1.43	0.007	0.08	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
REP 993026	QC	22	0.45	181	0.046	3	1.41	0.009	0.09	0.2	0.03	3.5	<0.1	<0.05	5	0.5	<0.2
993037	Soil	14	0.25	230	0.039	2	0.85	0.007	0.08	0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
REP 993037	QC	14	0.24	223	0.040	1	0.85	0.005	0.08	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
993334	Soil	20	0.42	207	0.031	2	1.29	0.007	0.07	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
REP 993334	QC	20	0.41	215	0.043	2	1.30	0.007	0.07	0.2	0.02	3.8	<0.1	<0.05	5	1.8	<0.2
993348	Soil	16	0.20	478	0.017	2	1.05	0.005	0.06	0.1	0.05	2.8	<0.1	<0.05	5	<0.5	<0.2
REP 993348	QC	16	0.20	476	0.016	2	1.03	0.005	0.06	0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	122	0.62	303	0.113	2	0.92	0.082	0.39	3.1	0.22	2.5	5.5	0.20	5	5.4	5.5
STD DS9	Standard	121	0.63	302	0.118	3	0.93	0.088	0.40	3.0	0.21	2.8	5.5	0.17	5	5.2	5.0
STD DS9	Standard	126	0.66	309	0.130	3	0.99	0.091	0.40	2.9	0.21	2.7	5.5	0.18	5	6.6	5.2
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Submitted By: Email Distribution List

Receiving Lab: Canada-Smithers

Received: October 29, 2012

Report Date: November 08, 2012

Page: 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI12000523.1

## CLIENT JOB INFORMATION

Project: GALAXIE  
Shipment ID: GALA\_SSN12-11\_201210  
P.O. Number: QZM-ZNT-11  
Number of Samples: 18

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-500	18	Crush, split and pulverize 500 g rock to 200 mesh			VAN
3B01	18	Fire assay fusion Au by ICP-ES	30	Completed	VAN
7AX1	18	1:1:1 Aqua Regia digestion ICP-ES/ICP-MS analysis	1	Completed	VAN

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
RTRN-RJT Return

## ADDITIONAL COMMENTS

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

Invoice To: Quartz Mountain Resources Ltd.  
15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1  
Canada

CC:



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



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Project: GALAXIE  
 Report Date: November 08, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000523.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
G1-SMI	Prep Blank	<0.01	<2	<0.5	2.2	2.8	56	<0.5	3.8	4.1	570	1.95	<5	1.4	5.2	56	<0.5	<0.5	<0.5	35	0.43
G1-SMI	Prep Blank	<0.01	<2	<0.5	2.1	3.1	53	<0.5	4.3	4.2	605	2.08	<5	1.7	5.9	72	<0.5	<0.5	<0.5	34	0.54
991033	Rock	0.90	<2	0.6	23.7	4.4	43	<0.5	10.5	5.9	636	1.80	12	<0.5	6.8	31	<0.5	<0.5	<0.5	34	0.93
991090	Rock	0.76	<2	0.6	23.5	13.8	310	<0.5	5.8	15.2	2840	5.44	7	<0.5	0.6	16	0.7	<0.5	<0.5	87	2.11
988118	Rock	3.55	<2	0.6	5.8	3.7	15	<0.5	1.7	<0.5	30	1.11	466	<0.5	4.4	17	<0.5	1.3	<0.5	11	<0.01
988119	Rock	3.96	<2	<0.5	3.5	4.5	100	<0.5	0.8	3.0	1188	2.82	53	<0.5	0.9	6	<0.5	<0.5	<0.5	<10	0.08
988120	Rock	2.45	<2	0.7	4.8	3.7	18	<0.5	3.1	1.9	66	1.07	706	<0.5	5.0	14	<0.5	1.5	<0.5	13	0.03
988121	Rock	3.69	<2	<0.5	34.2	71.0	324	<0.5	3.9	13.0	2422	5.55	13	<0.5	0.9	13	0.6	<0.5	<0.5	95	1.25
988122	Rock	1.55	<2	<0.5	5.4	4.2	165	<0.5	0.6	1.7	462	2.14	33	<0.5	<0.5	<5	<0.5	<0.5	<0.5	14	0.07
988123	Rock	1.83	<2	<0.5	1.0	7.3	196	<0.5	<0.5	2.1	759	2.82	<5	<0.5	0.6	8	<0.5	<0.5	<0.5	<10	0.51
988124	Rock	1.52	<2	<0.5	10.8	56.5	202	<0.5	1.8	4.9	1132	3.52	6	<0.5	0.8	27	1.9	<0.5	<0.5	33	1.51
988125	Rock	1.72	<2	<0.5	9.1	0.8	63	<0.5	4.0	16.3	1554	5.42	<5	<0.5	0.7	34	<0.5	<0.5	<0.5	36	1.32
988126	Rock	1.09	<2	<0.5	0.6	1.3	245	<0.5	0.7	2.8	1126	2.83	<5	<0.5	<0.5	8	<0.5	<0.5	<0.5	<10	0.76
988127	Rock	2.09	<2	<0.5	1.6	4.6	270	<0.5	1.2	2.4	838	3.08	<5	<0.5	0.5	<5	<0.5	<0.5	<0.5	<10	0.33
988128	Rock	1.33	<2	0.8	132.9	73.1	4443	6.6	4.8	26.1	2344	6.52	34	<0.5	<0.5	9	32.2	2.0	<0.5	136	0.58
988129	Rock	1.09	<2	0.7	28.3	41.8	3090	4.9	2.7	12.1	1411	4.58	33	<0.5	0.6	19	29.8	1.5	<0.5	103	0.90
988130	Rock	1.78	<2	4.7	73.1	575.7	3569	2.5	4.8	20.8	2854	6.18	10	<0.5	0.6	38	37.7	<0.5	<0.5	108	2.63
988131	Rock	1.73	<2	0.5	3.9	9.7	143	<0.5	<0.5	1.8	462	2.68	<5	<0.5	0.9	8	<0.5	<0.5	<0.5	<10	0.28
998132	Rock	3.20	<2	<0.5	73.8	4.9	114	<0.5	1.1	1.2	621	2.07	10	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	0.07
998133	Rock	1.87	<2	<0.5	38.8	4.2	161	<0.5	1.1	1.7	614	2.53	8	<0.5	<0.5	16	<0.5	<0.5	<0.5	<10	0.13



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Project: GALAXIE  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000523.1

Method	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2	
G1-SMI	Prep Blank	0.080	10.8	9.5	0.58	252	0.135	0.93	0.07	0.39	<0.5	<0.05	2.1	<0.5	<0.05	<5	<2
G1-SMI	Prep Blank	0.080	13.0	11.5	0.58	261	0.148	1.07	0.12	0.44	<0.5	<0.05	2.4	<0.5	<0.05	<5	<2
991033	Rock	0.045	9.5	20.1	0.17	262	0.020	0.40	0.04	0.13	<0.5	<0.05	4.6	<0.5	<0.05	<5	<2
991090	Rock	0.071	5.9	10.9	1.57	436	0.020	2.15	0.07	0.07	<0.5	<0.05	14.8	<0.5	<0.05	13	<2
988118	Rock	0.018	8.5	8.4	<0.01	103	0.001	0.38	<0.01	0.09	<0.5	<0.05	1.9	<0.5	0.29	<5	<2
988119	Rock	0.018	7.9	4.0	0.04	152	0.002	0.39	0.02	0.13	<0.5	<0.05	5.4	<0.5	0.11	<5	<2
988120	Rock	0.026	7.9	9.8	<0.01	43	0.001	0.37	<0.01	0.11	<0.5	<0.05	2.8	<0.5	0.05	<5	<2
988121	Rock	0.075	11.2	6.1	0.88	155	0.005	1.41	0.08	0.05	<0.5	<0.05	21.3	<0.5	0.09	11	<2
988122	Rock	0.058	5.8	3.7	0.03	21	0.003	0.34	0.04	0.12	<0.5	<0.05	4.8	<0.5	<0.05	<5	<2
988123	Rock	0.080	11.9	3.3	0.31	105	0.021	0.81	0.06	0.16	<0.5	<0.05	6.5	<0.5	<0.05	<5	<2
988124	Rock	0.075	6.5	7.6	0.47	67	0.029	0.80	0.06	0.11	<0.5	<0.05	8.6	<0.5	<0.05	<5	<2
988125	Rock	0.201	9.0	5.8	1.80	456	0.036	2.55	0.03	0.29	<0.5	<0.05	4.6	<0.5	0.07	9	<2
988126	Rock	0.077	8.4	3.2	0.33	68	0.003	1.02	0.04	0.17	<0.5	<0.05	6.3	<0.5	<0.05	<5	<2
988127	Rock	0.067	7.5	5.3	0.31	81	0.016	0.82	0.05	0.13	<0.5	<0.05	5.0	<0.5	<0.05	<5	<2
988128	Rock	0.132	4.1	7.9	0.88	316	0.004	1.57	0.04	0.12	<0.5	0.31	13.5	<0.5	0.32	12	<2
988129	Rock	0.129	6.1	5.9	0.98	1184	0.009	1.45	0.03	0.10	<0.5	0.54	11.6	<0.5	0.20	12	<2
988130	Rock	0.093	6.7	6.7	1.41	816	0.026	2.00	0.08	0.03	<0.5	0.21	16.4	9.3	0.39	12	<2
988131	Rock	0.074	13.6	2.9	0.22	404	0.015	0.77	0.03	0.22	<0.5	<0.05	5.8	<0.5	<0.05	<5	<2
998132	Rock	0.048	7.0	8.7	0.02	149	0.010	0.29	0.04	0.14	<0.5	<0.05	3.6	<0.5	0.06	<5	<2
998133	Rock	0.055	6.0	11.2	0.02	1621	0.017	0.22	0.04	0.08	<0.5	<0.05	4.4	<0.5	0.14	<5	<2





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Client: **Quartz Mountain Resources Ltd.**

15th Floor - 1040 West Georgia Street  
Vancouver BC V6E 4H1 Canada

Project: GALAXIE

Report Date: November 08, 2012

Page: 1 of 1

Part: 1 of 1

# QUALITY CONTROL REPORT

SMI12000523.1

Method	WGHT	3B	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.5	0.5	0.5	5	0.5	0.5	0.5	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	
Pulp Duplicates																					
998133	Rock	1.87	<2	<0.5	38.8	4.2	161	<0.5	1.1	1.7	614	2.53	8	<0.5	<0.5	16	<0.5	<0.5	<0.5	<10	0.13
REP 998133	QC		<0.5	39.6	4.2	158	<0.5	1.3	1.6	600	2.47	8	<0.5	<0.5	16	<0.5	<0.5	<0.5	<10	0.13	
Core Reject Duplicates																					
988123	Rock	1.83	<2	<0.5	1.0	7.3	196	<0.5	<0.5	2.1	759	2.82	<5	<0.5	0.6	8	<0.5	<0.5	<0.5	<10	0.51
DUP 988123	QC	<0.01	<2	<0.5	1.3	6.7	204	<0.5	0.7	1.9	745	2.68	<5	<0.5	0.6	8	<0.5	<0.5	<0.5	<10	0.48
Reference Materials																					
STD OXD87	Standard		415																		
STD OXG99	Standard		965																		
STD SF-3A	Standard		320.8	7603	8426	10258	51.5	3447	189.0	3820	7.47	47	3.4	3.2	62	55.0	10.4	5.2	96	2.59	
STD SF-3A	Standard		309.3	7551	8267	10316	50.7	3430	188.5	3848	7.54	48	3.4	2.9	62	54.2	10.2	4.6	99	2.55	
STD OXD87 Expected			417																		
STD OXG99 Expected			932																		
STD SF-3A Expected			308	7705	8715	10750	54	3420	183	4100	7.75	46	3.3	2.8	58	50	10	4.6	102	2.59	
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<5	<0.01	<5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<10	<0.01	
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	<0.5	2.2	2.8	56	<0.5	3.8	4.1	570	1.95	<5	1.4	5.2	56	<0.5	<0.5	<0.5	35	0.43
G1-SMI	Prep Blank	<0.01	<2	<0.5	2.1	3.1	53	<0.5	4.3	4.2	605	2.08	<5	1.7	5.9	72	<0.5	<0.5	<0.5	34	0.54



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 Vancouver BC V6E 4H1 Canada

Project: GALAXIE  
 Report Date: November 08, 2012

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000523.1

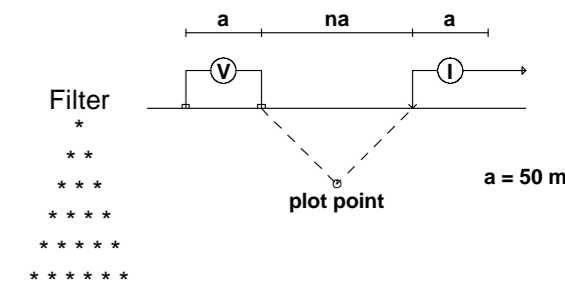
Method		7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	7AX	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		0.001	0.5	0.5	0.01	5	0.001	0.01	0.01	0.01	0.5	0.05	0.5	0.5	0.05	5	2
Pulp Duplicates																	
998133	Rock	0.055	6.0	11.2	0.02	1621	0.017	0.22	0.04	0.08	<0.5	<0.05	4.4	<0.5	0.14	<5	<2
REP 998133	QC	0.057	6.1	10.7	0.01	1607	0.017	0.21	0.04	0.08	<0.5	<0.05	4.4	<0.5	0.13	<5	<2
Core Reject Duplicates																	
988123	Rock	0.080	11.9	3.3	0.31	105	0.021	0.81	0.06	0.16	<0.5	<0.05	6.5	<0.5	<0.05	<5	<2
DUP 988123	QC	0.076	12.0	3.5	0.30	94	0.019	0.76	0.04	0.13	<0.5	<0.05	5.6	<0.5	<0.05	<5	<2
Reference Materials																	
STD OXD87	Standard																
STD OXG99	Standard																
STD SF-3A	Standard	0.063	9.9	178.2	4.16	316	0.110	1.00	0.51	0.92	3.1	0.55	3.2	2.4	4.98	<5	9
STD SF-3A	Standard	0.060	9.7	177.5	4.18	299	0.110	0.99	0.52	0.90	3.3	0.72	3.4	2.3	4.98	<5	7
STD OXD87 Expected																	
STD OXG99 Expected																	
STD SF-3A Expected		0.055	8.9	172	4.27	260	0.117	1.02	0.5	1.04	3.2	0.6	3	2.7	5	4	8.5
BLK	Blank																
BLK	Blank																
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<5	<0.001	<0.01	<0.01	<0.01	<0.5	<0.05	<0.5	<0.5	<0.05	<5	<2
Prep Wash																	
G1-SMI	Prep Blank	0.080	10.8	9.5	0.58	252	0.135	0.93	0.07	0.39	<0.5	<0.05	2.1	<0.5	<0.05	<5	<2
G1-SMI	Prep Blank	0.080	13.0	11.5	0.58	261	0.148	1.07	0.12	0.44	<0.5	<0.05	2.4	<0.5	<0.05	<5	<2

## **APPENDIX C**

### **Induced Polarization Pseudosections**

268+00 E

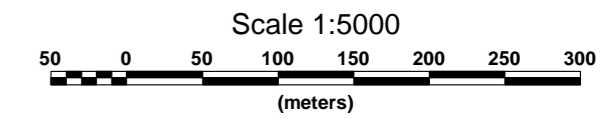
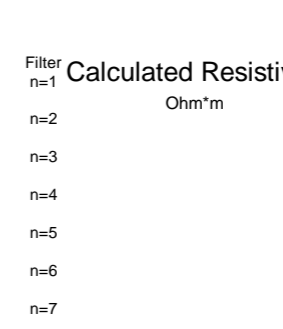
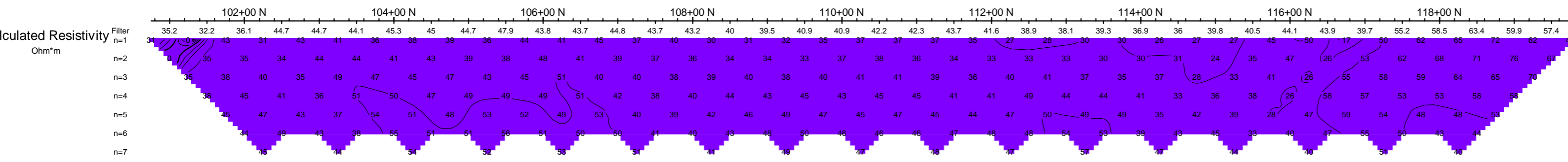
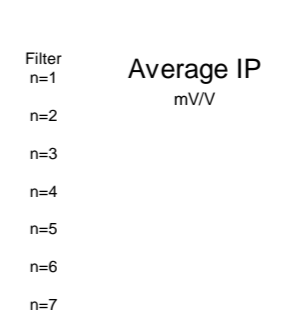
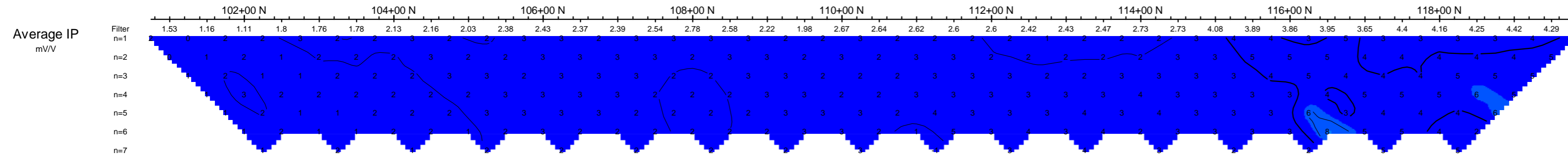
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

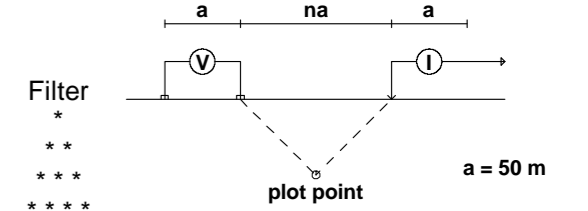
Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



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270+00 E

Dipole-Pole Array



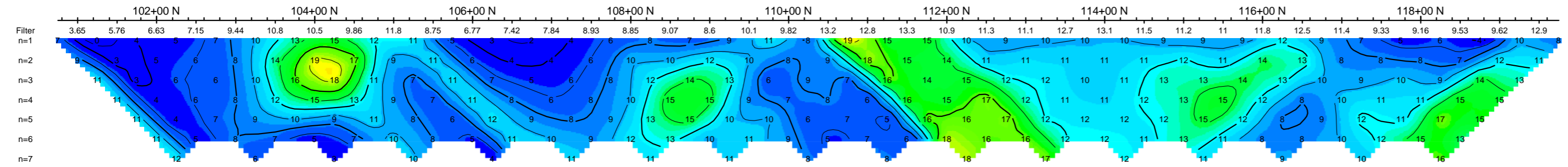
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Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

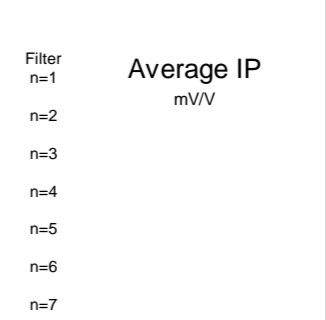
Frequency: 0.125 Hz.  
Operators: T.K.

Logarithmic  
Contours: 1.5, 2, 3, 5, 7.5, 10,...

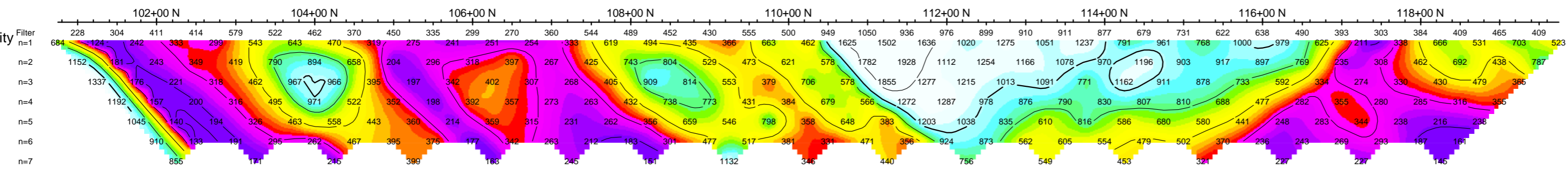
Average IP  
mV/V



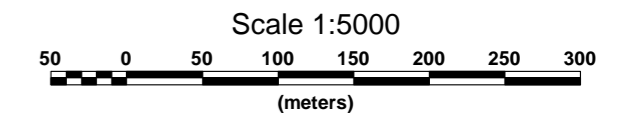
Average IP  
mV/V



Calculated Resistivity  
Ohm\*m



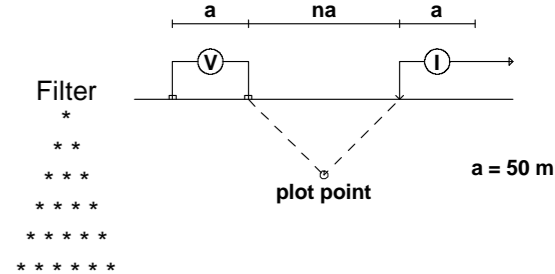
Calculated Resistivity  
Ohm\*m



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272+00 E

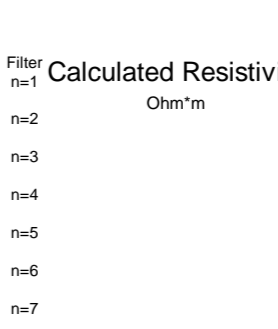
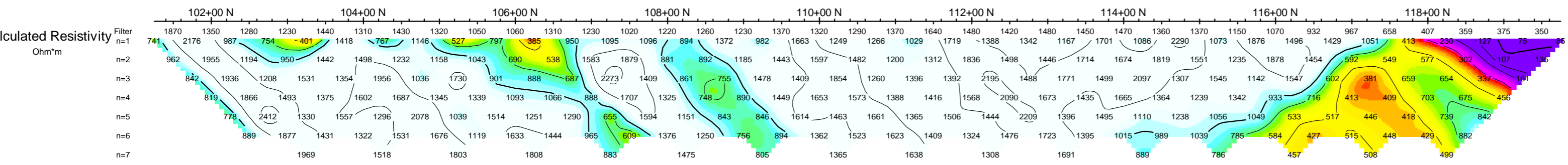
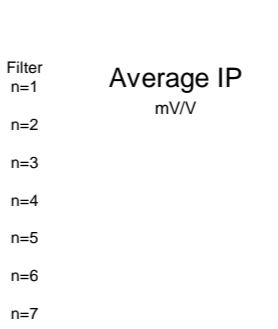
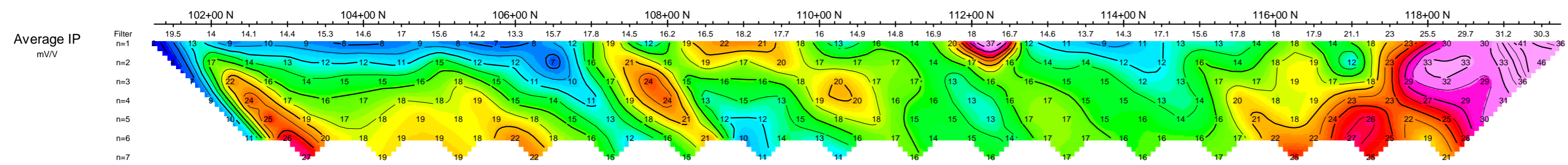
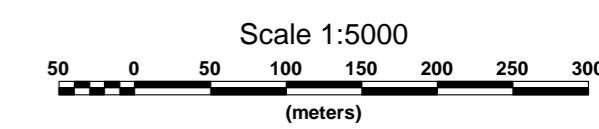
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

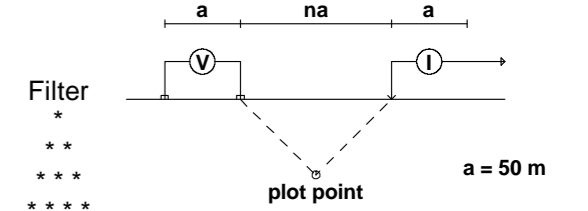
Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



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274+00 E

Dipole-Pole Array

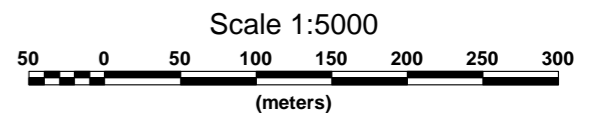


Filter  
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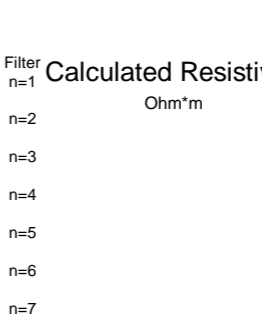
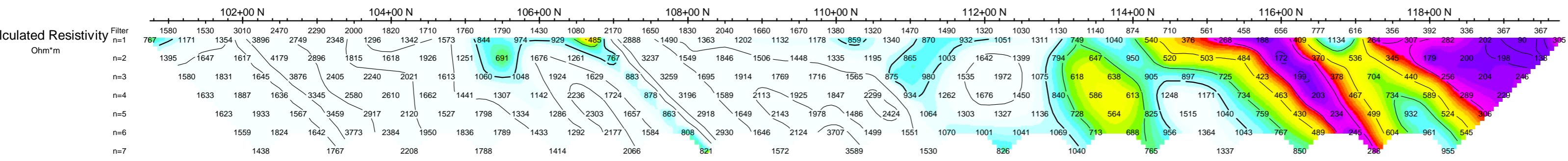
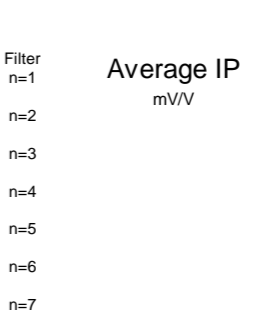
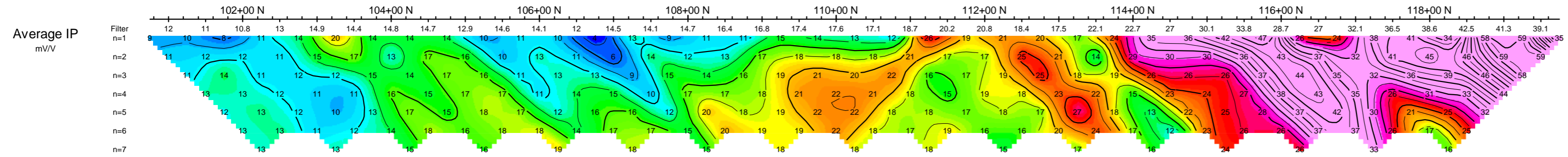
Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

Logarithmic  
Contours: 1.5, 2, 3, 5, 7.5, 10,...



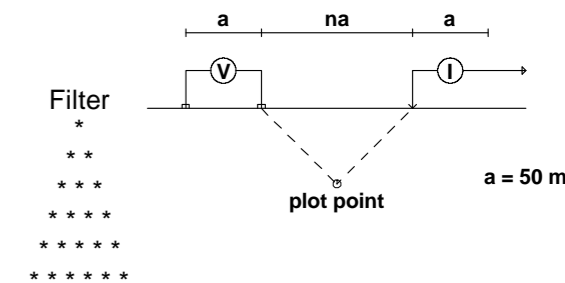
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276+00 E

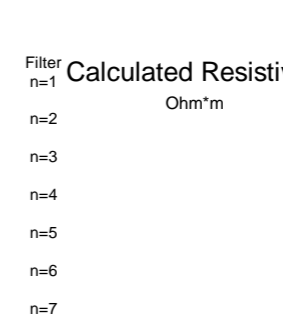
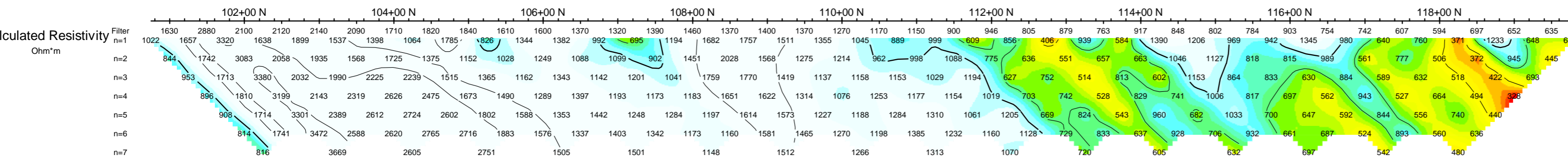
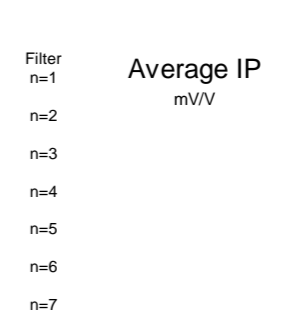
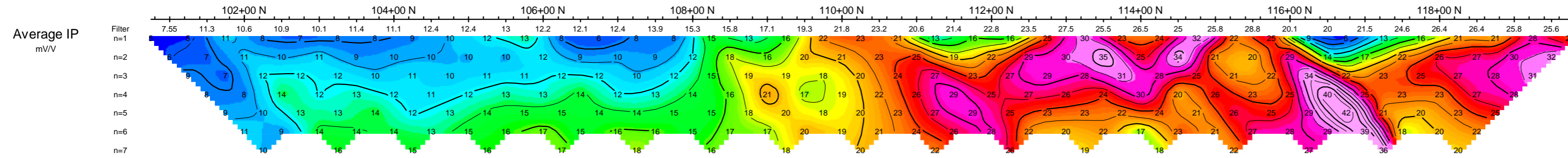
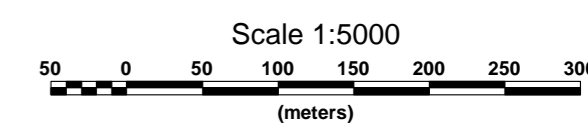
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

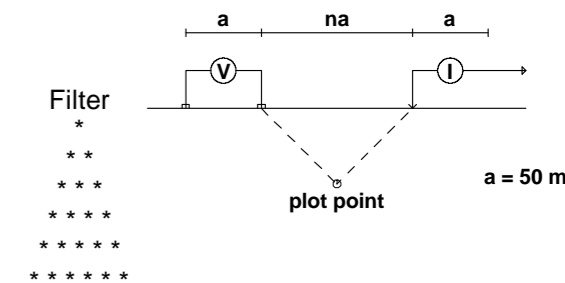
Logarithmic  
Contours: 1.5, 2, 3, 5, 7.5, 10,...



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278+00 E

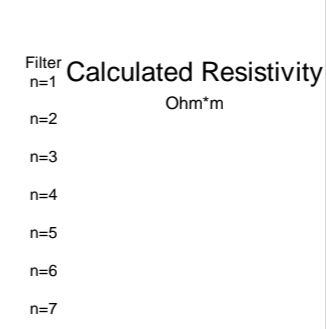
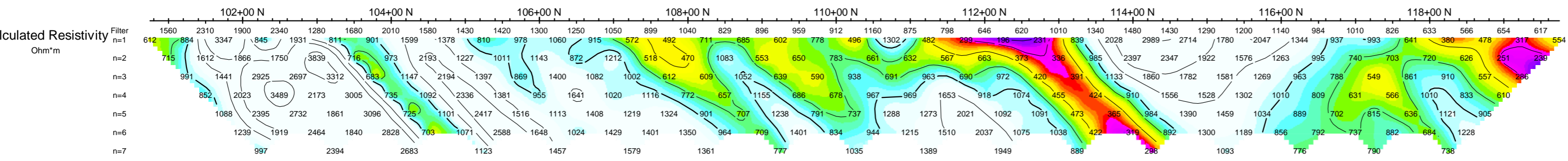
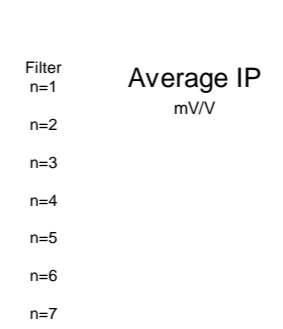
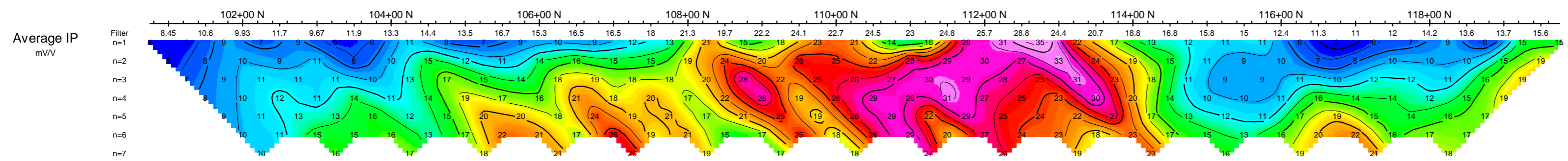
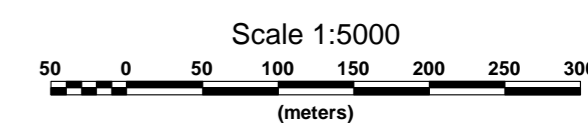
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

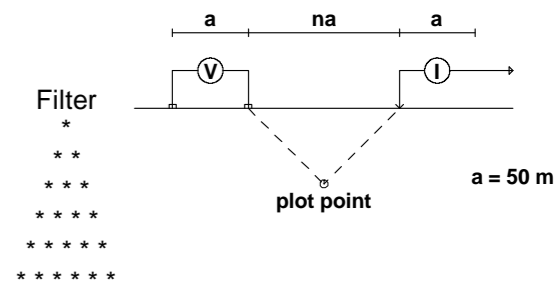
Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



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280+00 E

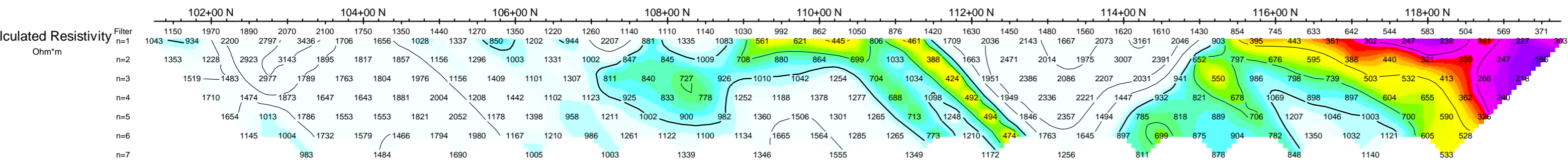
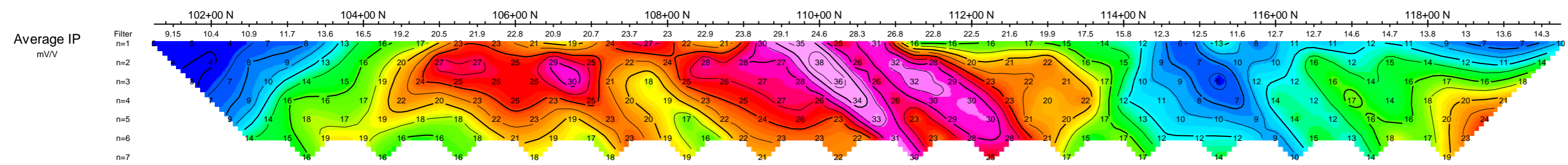
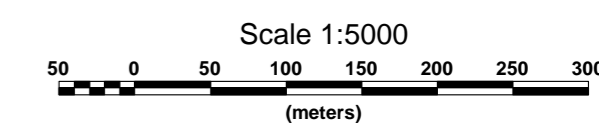
Dipole-Pole Array



Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

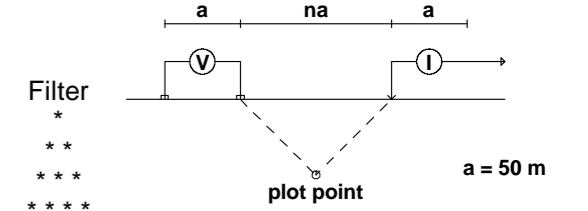
Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



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282+00 E

Dipole-Pole Array

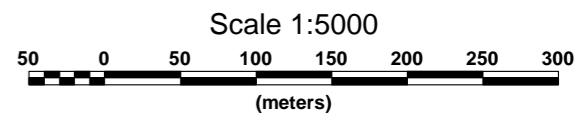


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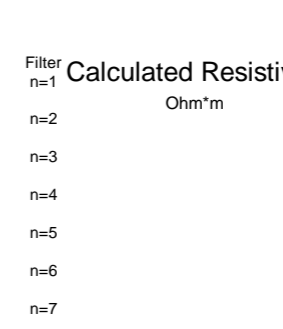
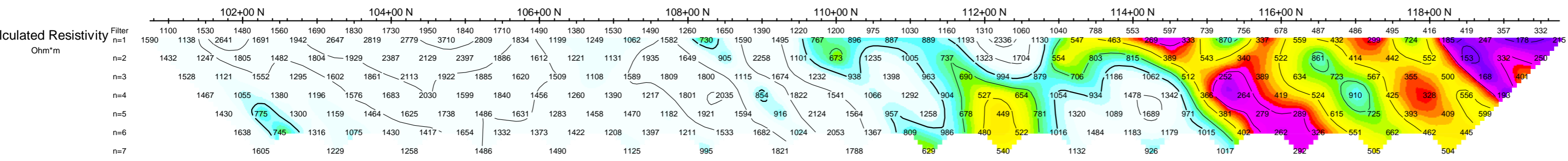
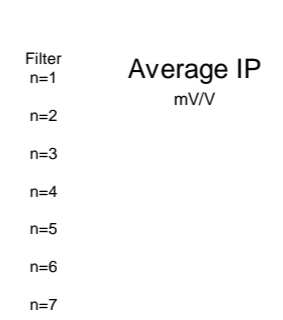
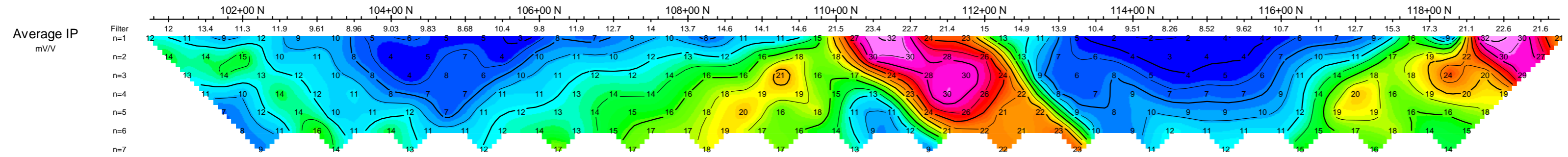
Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...



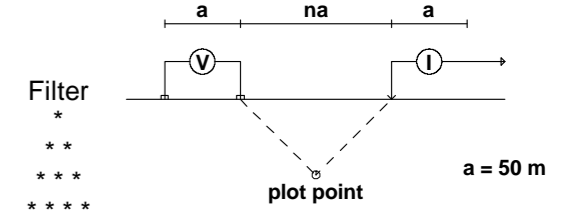
QUARTZ MOUNTAIN RESOURCES LTD.  
 INDUCED POLARIZATION SURVEY  
 ZNT PROPERTY  
 SMITHERS AREA, BRITISH COLUMBIA  
 Date: OCTOBER 2012  
 PETER E. WALCOTT & ASSOCIATES LIMITED





284+00 E

Dipole-Pole Array



Filter  
\*  
\*\*  
\*\*\*  
\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

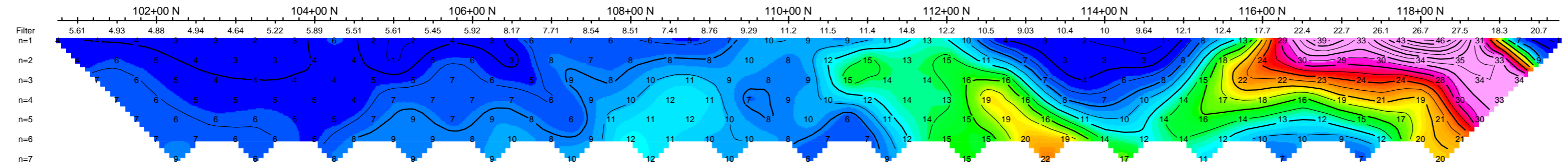
a = 50 m

Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

Logarithmic  
Contours: 1.5, 2, 3, 5, 7.5, 10,...

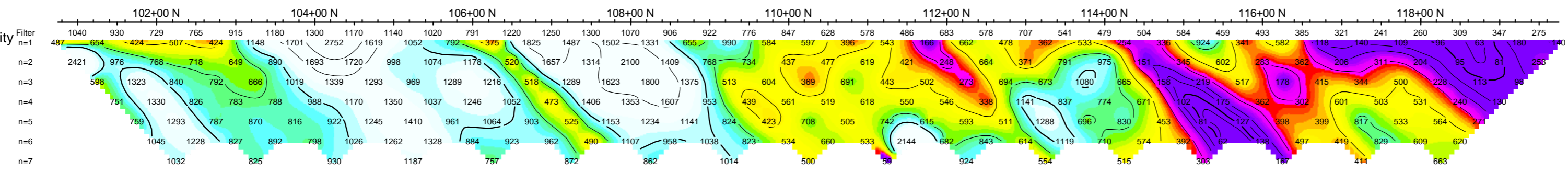
Average IP  
mV/V



Average IP  
mV/V

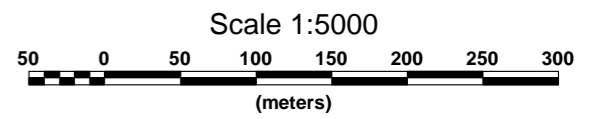
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6  
n=7

Calculated Resistivity  
Ohm\*m



Calculated Resistivity  
Ohm\*m

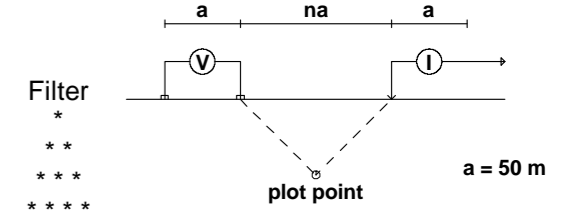
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6  
n=7



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SMITHERS AREA, BRITISH COLUMBIA  
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PETER E. WALCOTT & ASSOCIATES LIMITED

286+00 E

Dipole-Pole Array

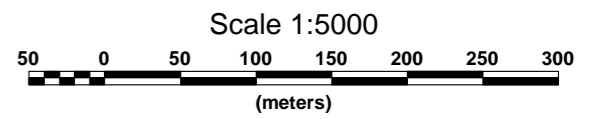


Filter  
\*  
\*\*  
\*\*\*  
\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

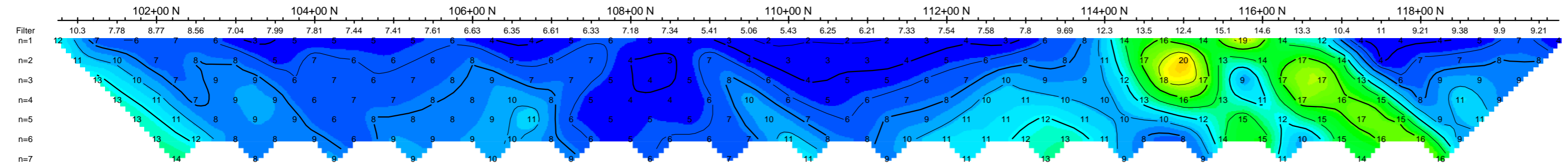
Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.  
Operators: T.K.

Logarithmic  
Contours: 1.5, 2, 3, 5, 7.5, 10,...



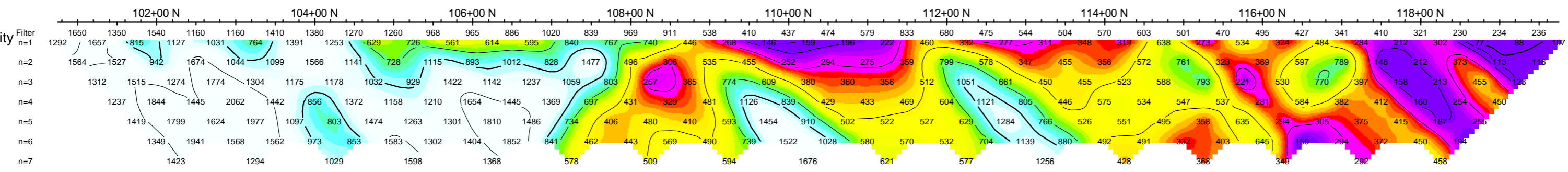
Average IP  
mV/V



Average IP  
mV/V

Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6  
n=7

Calculated Resistivity  
Ohm\*m



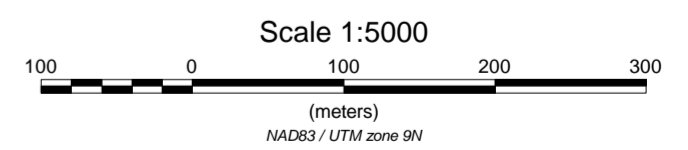
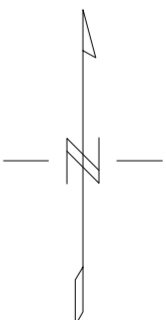
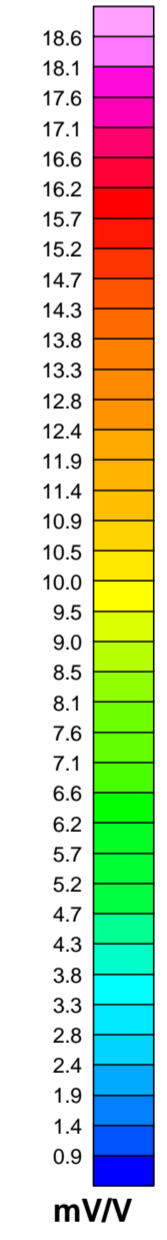
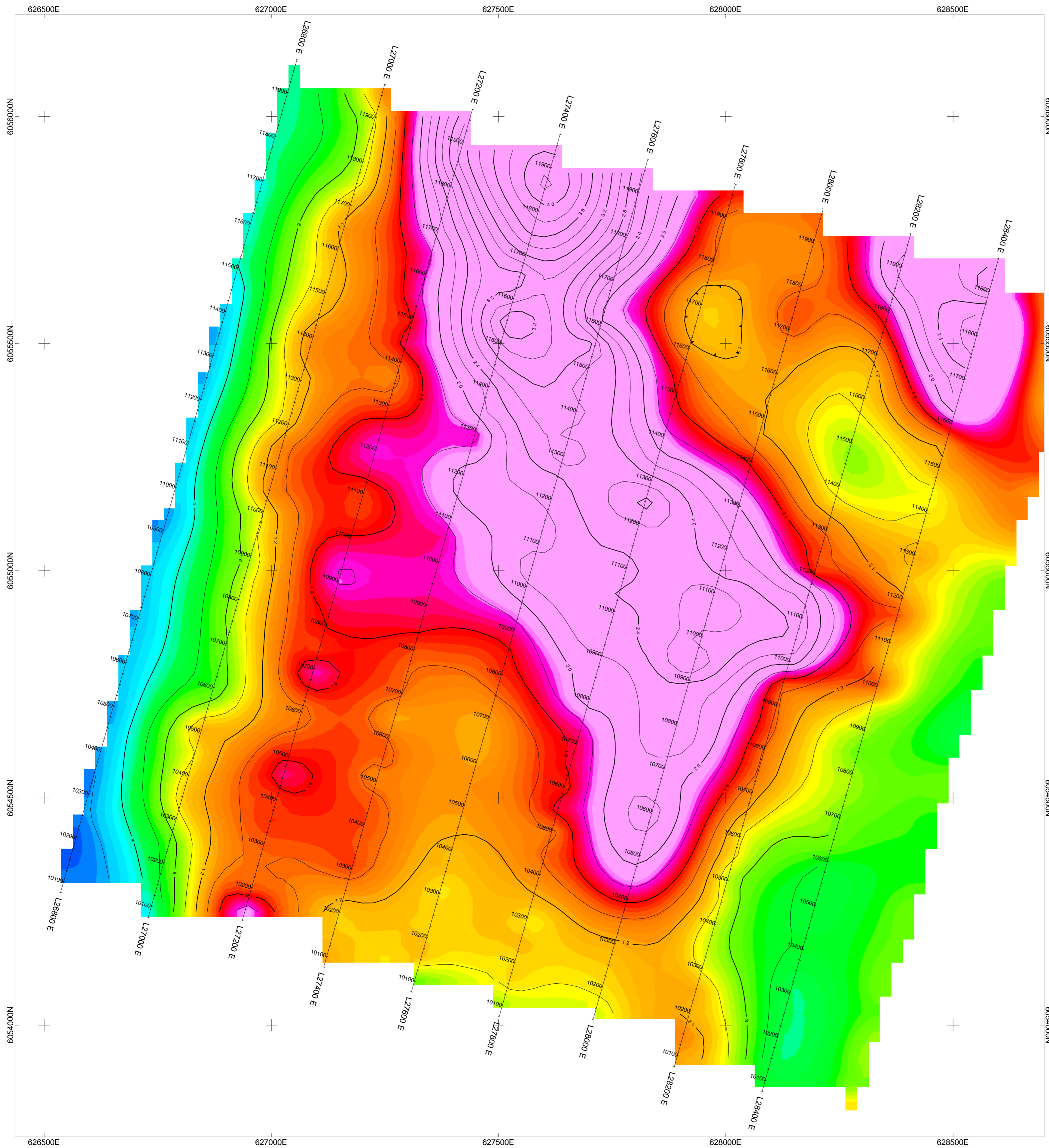
Calculated Resistivity  
Ohm\*m

Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6  
n=7

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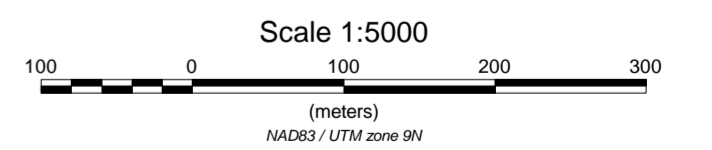
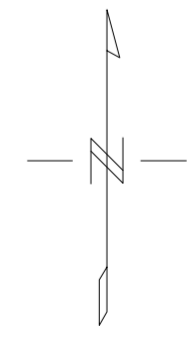
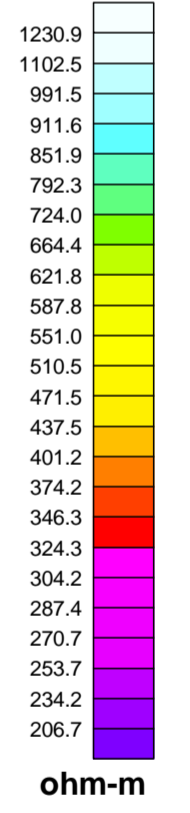
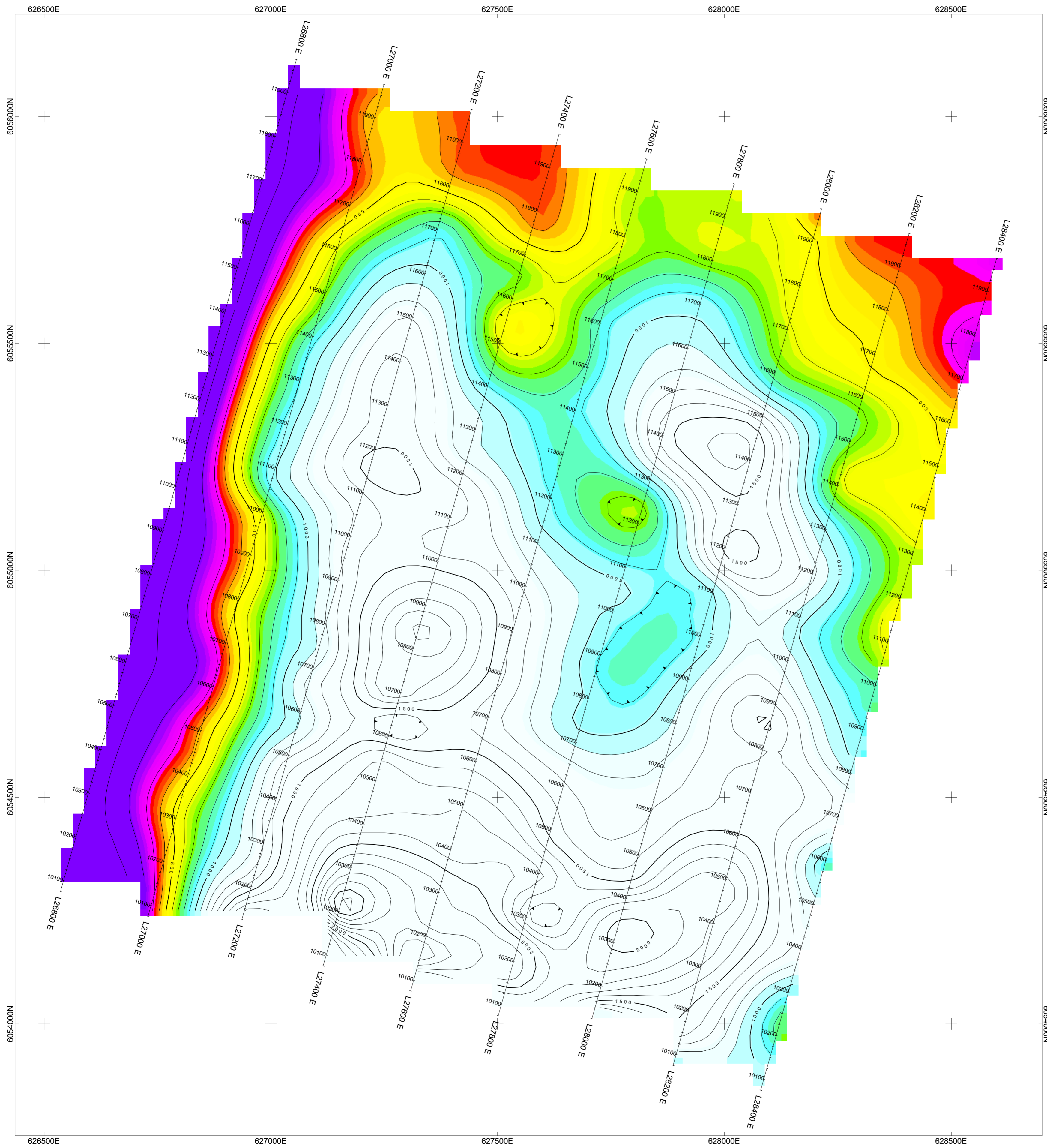






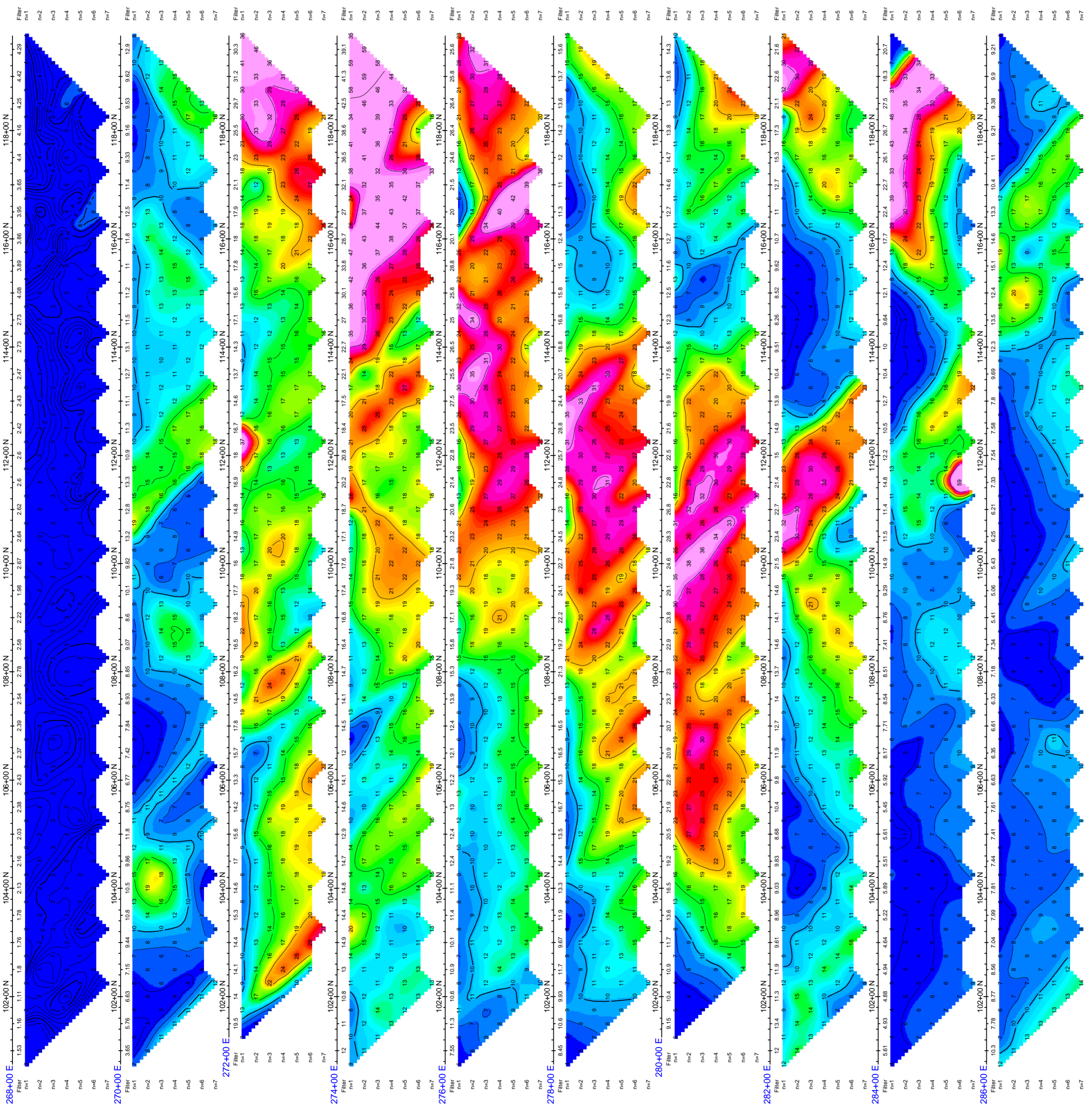
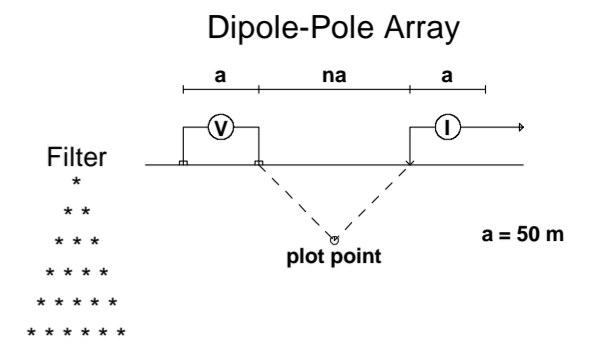
**QUARTZ MOUNTAIN RESOURCES LTD.**  
**INDUCED POLARIZATION SURVEY**  
**CONTOURS OF APPARENT CHARGEABILITY (mV/V)**  
**21 POINT FILTER**  
 ZNT PROJECT  
 SMITHERS AREA  
 OCTOBER/NOVEMBER 2012  
**PETER E. WALCOTT & ASSOCIATES LIMITED**





**QUARTZ MOUNTAIN RESOURCES LTD.**  
**INDUCED POLARIZATION SURVEY**  
**CONTOURS OF APPARENT RESISTIVITY (ohm-m)**  
**21 POINT FILTER**  
 ZNT PROJECT  
 SMITHERS AREA  
 OCTOBER/NOVEMBER 2012  
**PETER E. WALCOTT & ASSOCIATES LIMITED**



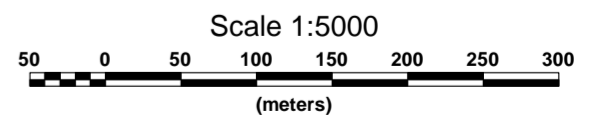


Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

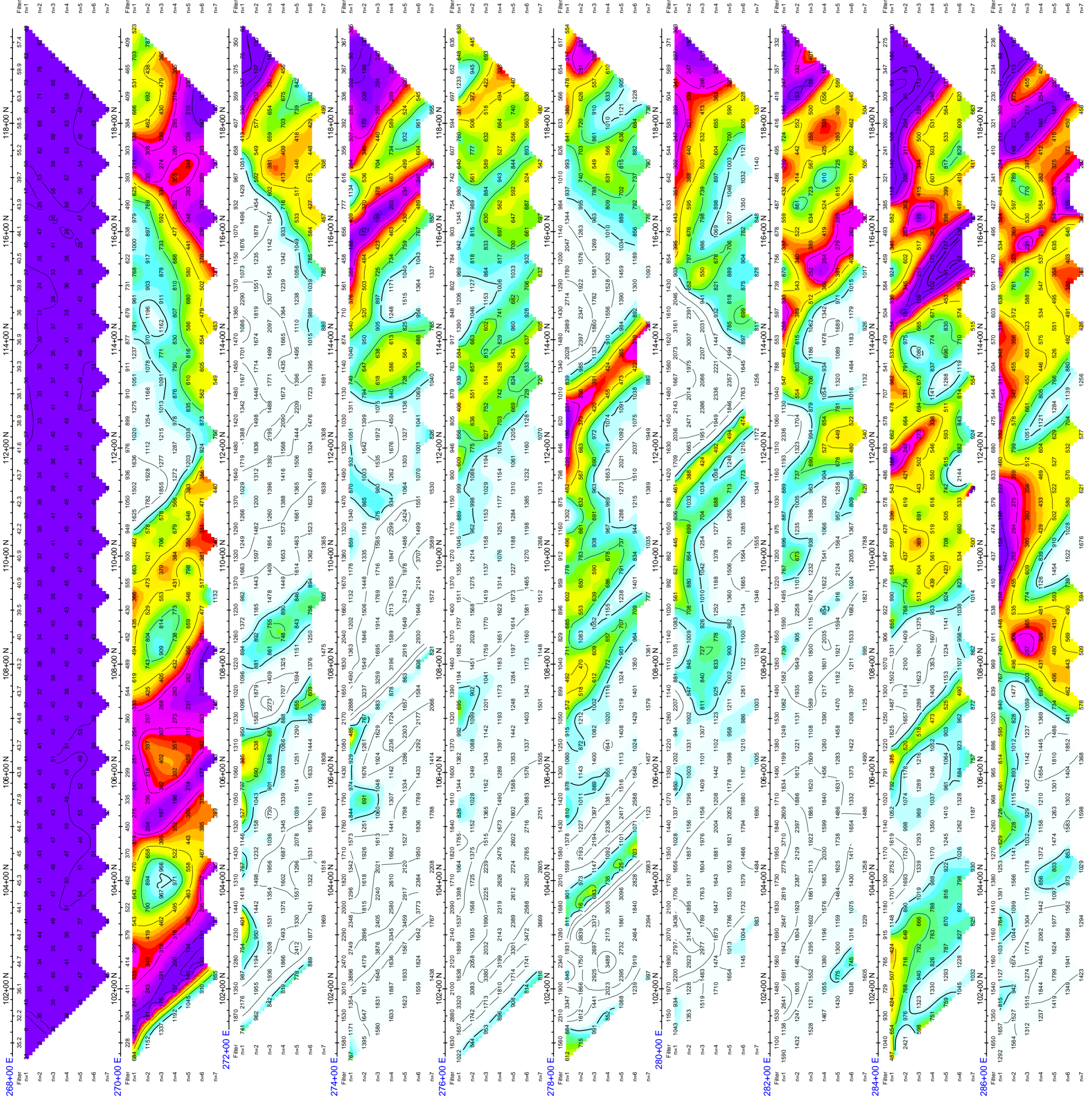
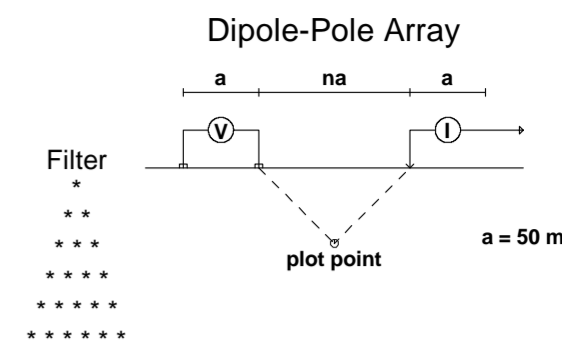
Frequency: 0.125 Hz.

Operators: T.K.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...







Instruments: Walcer 10.0kw Tx, GDD GRX8 Rx

Frequency: 0.125 Hz.

Operators: T.K.

Logarithmic Contours: 1.5, 2, 3, 5, 7.5, 10,...

