ASSESSMENT REPORT

2011 GEOCHEMICAL PROGRAM

on the

Josephine Property

Dawson Mining District, Yukon Territory

for

Goldspike Exploration Inc.

Claims filed for: 'JO' 1-100 (YD93501 – YD93600) and 'JO' 101-109 (YD14061 – YD14069)
NTS Mapsheets: 115P14, 115P15
UTM Coordinates: E400000, N7087000 (NAD83, Zone8)
Owner: Goldspike Exploration Inc.
Author: D. Ferraro, HBSc.
Dates worked performed: July 18th, 2011 to July 25th, 2011

TABLE OF CONTENTS

1.0 Summary 1
2.0 Introduction 2
3.0 Property Location and Access 2
4.0 Topography, Vegetation, and Climate 3
5.0 Property Description 4
6.0 Property History 8
7.0 Geology
    7.1 Regional Geology 9
    7.2 Property Geology 9
8.0 2011 Work Program
    8.1 Sampling Method and Approach 12
    8.2 Sample Preparation, Analysis, and QA/QC 12
    8.3 Results 13
9.0 Conclusions and Recommendations 19
References 20
Statement of Expenditures 21
Certificates of Qualifications 22

Figures, Photos, and Tables

Figure 1: General Location of the Josephine Property 2
Figure 2: Claim Location Map 7
Figure 3: Regional Bedrock Geology 11
Figure 4: Sample Location Map 15
Figure 5: Soil Geochemistry Map - Gold 16
Figure 6: Soil Geochemistry Map – Arsenic 17
Figure 7: Silt Sample Results in Josephine Creek and Tributaries 18

Photo 1: Example of physiography on the Property 3
Photo 2: Rock sample 1204334 14

Table 1: List of claims 4

Appendices

Appendix I: Soil Sample Descriptions 23
Appendix II: Silt Sample Descriptions 39
Appendix III: Rock Sample Descriptions 41
Appendix IV: Soil Sample Assay Certificates 46
Appendix V: Silt Sample Assay Certificates 122
Appendix VI: Rock Sample Assay Certificates 133

1.0 SUMMARY

An 8 day geochemical sampling program was conducted on the Josephine Property from July 18th, 2011 to July 25th, 2011. The property is owned 100% by Goldspike Exploration Inc. and consists of 109 contiguous quartz claims located in the Dawson Mining District.

The Josephine Property is situated in the Clear Creek area, approximately 122 km ESE of Dawson City. It can be reached by truck via Clear Creek road which begins at the Klondike Highway approximately 100 km west of Dawson. The majority of the property is best accessed by helicopter.

Geologically, the property is located in the Tintina gold belt. The region is underlain by Hyland Group metasedimentary rocks which have been intruded by a wide range of Cretaceous aged dykes, sills and stocks known as the Tombstone Plutonic Suite. Gold mineralization in the area is generally related to these intrusions. The property itself is proximal to the Josephine Stock and Josephine gold-tungsten occurrence, and is dominated by chlorite and mica schists, quartzite, and slate.

A total of 794 soil samples, 24 silt samples, and 90 rock samples were taken over the course of the program. Silt samples taken from Josephine Creek and its tributaries returned highly anomalous gold values. Pursuant to these results, the creek was staked for placer mining rights. Numerous gold anomalies were found in the soil samples. Many are located in the Josephine Creek valley and are likely a product of fluvial gold in the soil. However many samples at higher elevations in the northwest returned anomalous gold and arsenic values as well as a rock sample taken from a nearby bedrock outcrop. Another strong gold anomaly was discovered in the geochemical soil sampling in the central area of the property.

The geological setting of the property is favourable to intrusive-related gold mineralization. Silt sample results are very encouraging to potential placer operations and locating a possible source of the gold on the property. Soil sampling and prospecting outlined at least two areas in which further work is recommended. Grid-style soil sampling and, pending results, trenching would help outline a source of the geochemical gold anomalies.

2.0 INTRODUCTION

This assessment report has been prepared at the request of Mr. Bruce Durham, president of Goldspike Exploration Inc. of Toronto, Ontario. The report describes the 2011 geochemical and prospecting program on the Josephine Property. Field work was performed by Druid Exploration Inc. of Dawson City, Yukon. The report text and maps were written by D. Ferraro, of Ferraro Consulting Ltd. of Woodstock, ON.

3.0 PROPERTY LOCATION AND ACCESS

The Josephine Property is situated in the Clear Creek area, approximately 122 km ESE of Dawson City (Figure 1). It can be reached by truck via Clear Creek road which begins at the Klondike Highway approximately 100 km west of Dawson. Although the road gets progressively rougher, it is possible to reach the property about 50 km in. An ATV trail runs along Josephine Creek for further ground access. For the purposes of this soil sampling program, a helicopter was used based from a field camp.

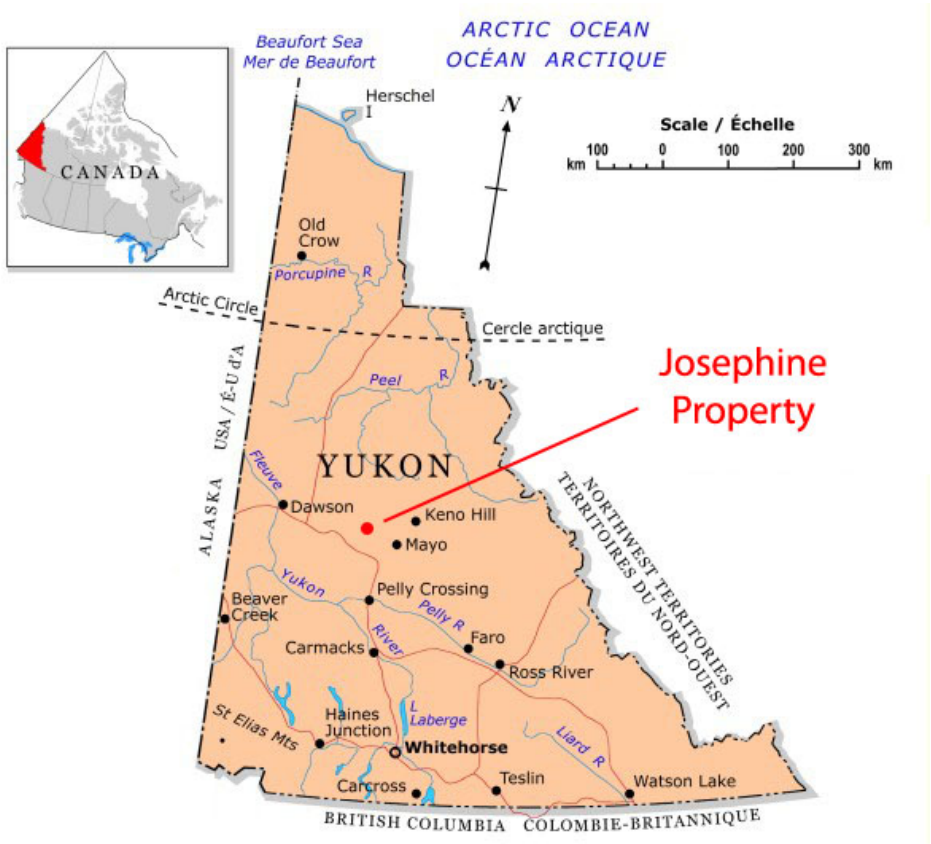


Figure 1: General location of the Josephine Property (modified from NRCAN, 2006).

4.0 TOPOGRAPHY, VEGETATION, AND CLIMATE

The Josephine Property is situated in a fairly high relief area of the Clear Creek – McQuesten River region. It straddles Josephine Creek (Photo 1) which has a number of small tributaries. The south is defined by the 'West Ridge' range and is incised by Big Creek. Elevations range from 3200 ft to 5500 ft.

Vegetation consists of evergreen and deciduous forest which dominates the slopes. The mountain tops are generally bare due to high elevations with buck brush covering. The treeline ranges from 4100 ft to 4500 ft. Outcrop exposure is fair on the mountain tops, but very limited at lower elevations.

The Yukon has a subarctic continental climate with a mean summer temperature of 10 degrees celcius and a mean winter temperature of -23 degrees celcius. Temperature extremes of 35 degrees and -55 degrees celcius are common in the summer and winter, respectively.



Photo 1: Josephine Creek on a typical rainy day (facing north).

5.0 PROPERTY DESCRIPTION

The present property consists of 109 contiguous quartz claims in the Dawon Mining District. The 109 'JO' claims can be found on NTS mapsheets 115P14 and 115P15 (see Figure 2). The claims are owned 100% by Goldspike Exploration Inc. of Toronto, Ontario.

A complete list of the mining claims that make up the Josephine Property is as follows:

Table 1: Claims comprising the Josephine Property.

Claim Name	Claim Number	Grant Number	Claim Owner	Status	Claim Expiry Date
JO	1	YD93501	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	2	YD93502	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	3	YD93503	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	4	YD93504	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	5	YD93505	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	6	YD93506	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	7	YD93507	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	8	YD93508	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	9	YD93509	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	10	YD93510	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	11	YD93511	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	12	YD93512	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	13	YD93513	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	14	YD93514	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	15	YD93515	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	16	YD93516	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	17	YD93517	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	18	YD93518	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	19	YD93519	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	20	YD93520	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	21	YD93521	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	22	YD93522	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	23	YD93523	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	24	YD93524	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	25	YD93525	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	26	YD93526	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	27	YD93527	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	28	YD93528	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	29	YD93529	Goldspike Exploration Inc. (100%)	Active	21/03/2016

JO	30	YD93530	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	31	YD93531	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	32	YD93532	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	33	YD93533	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	34	YD93534	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	35	YD93535	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	36	YD93536	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	37	YD93537	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	38	YD93538	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	39	YD93539	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	40	YD93540	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	41	YD93541	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	42	YD93542	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	43	YD93543	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	44	YD93544	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	45	YD93545	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	46	YD93546	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	47	YD93547	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	48	YD93548	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	49	YD93549	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	50	YD93550	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	51	YD93551	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	52	YD93552	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	53	YD93553	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	54	YD93554	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	55	YD93555	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	56	YD93556	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	57	YD93557	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	58	YD93558	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	59	YD93559	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	60	YD93560	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	61	YD93561	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	62	YD93562	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	63	YD93563	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	64	YD93564	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	65	YD93565	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	66	YD93566	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	67	YD93567	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	68	YD93568	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	69	YD93569	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	70	YD93570	Goldspike Exploration Inc. (100%)	Active	21/03/2016

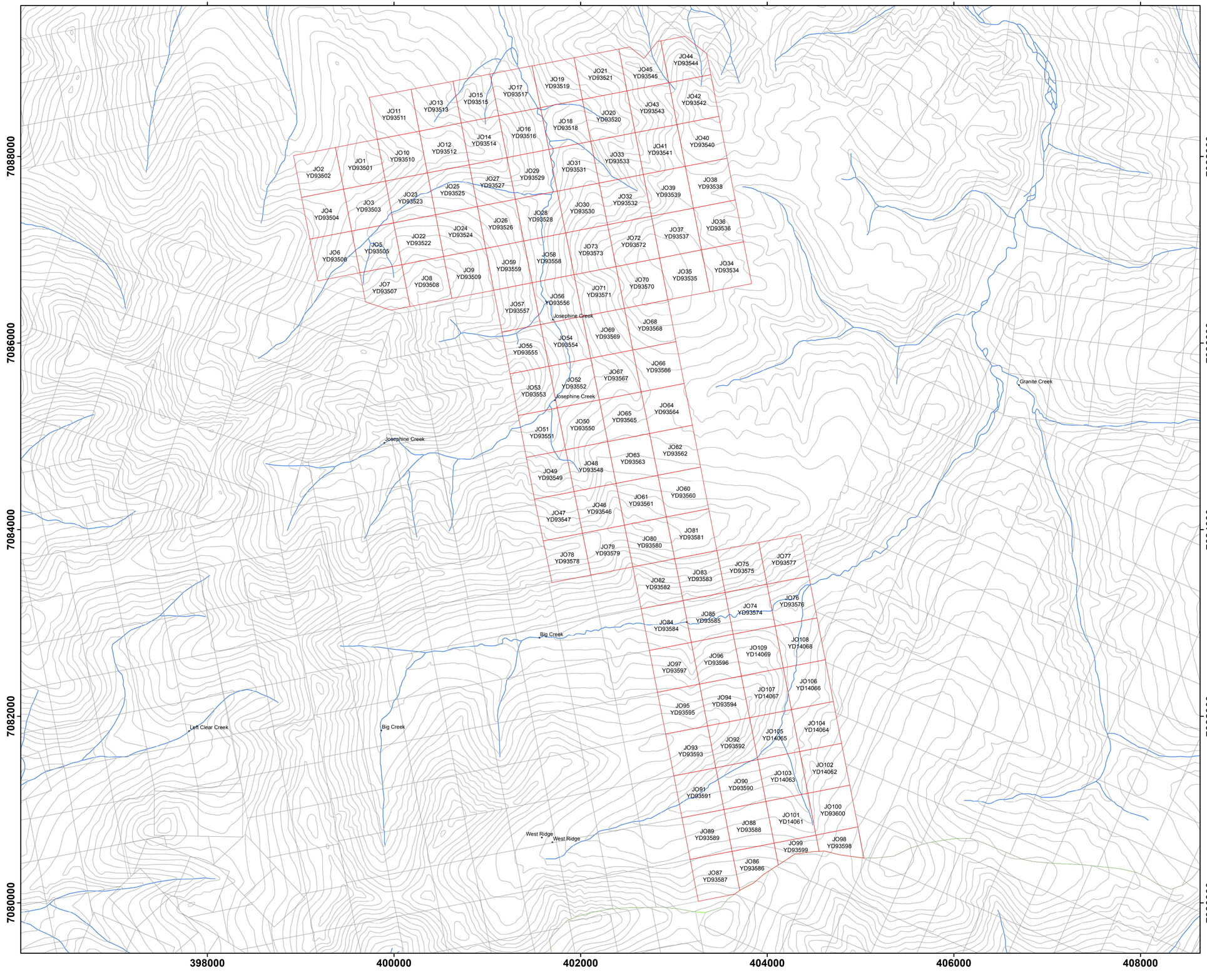
JO	71	YD93571	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	72	YD93572	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	73	YD93573	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	74	YD93574	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	75	YD93575	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	76	YD93576	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	77	YD93577	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	78	YD93578	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	79	YD93579	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	80	YD93580	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	81	YD93581	Goldspike Exploration Inc. (100%)	Active	21/03/2016
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JO	84	YD93584	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	85	YD93585	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	86	YD93586	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	87	YD93587	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	88	YD93588	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	89	YD93589	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	90	YD93590	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	91	YD93591	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	92	YD93592	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	93	YD93593	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	94	YD93594	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	95	YD93595	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	96	YD93596	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	97	YD93597	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	98	YD93598	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	99	YD93599	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	100	YD93600	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	101	YD14061	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	102	YD14062	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	103	YD14063	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	104	YD14064	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	105	YD14065	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	106	YD14066	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	107	YD14067	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	108	YD14068	Goldspike Exploration Inc. (100%)	Active	21/03/2016
JO	109	YD14069	Goldspike Exploration Inc. (100%)	Active	21/03/2016

Josephine Property

Fig. 2: Claim Location Map

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District



Legend

- Josephine Property claims
- Yukon quartz claims
- Mining district boundary

N

1:20,000

0 385 770 1,540 2,310 3,080 Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

6.0 PROPERTY HISTORY

The Josephine and Clear Creek areas have had a long history of placer gold production and hard rock exploration. Quartz claims in the area were recorded as early as 1902 at Josephine Creek and Lewis Gulch. The Lewis Gulch gold-pyrite showing is located southwest of the Josephine Property and was drilled in 1989 by Secret Pass Minerals. They intersected a 0.5 metre wide pyrite-sericite-quartz-clay gouge zone that assayed 18.7 g/t Au (Minfile 115P023).

The Josephine gold-tungsten occurrence is reportedly located 4 miles above the mouth of Josephine Creek. During 1902-03, M. Spisak drove three shallow adits, the longest being 20.7m. Further claims were added from 1912-1914. The area was fairly inactive until 1962 when the claims were restaked by T. Gergich then again in 1980 by Canada Tungsten. Government collected grab samples from the showing have yielded values of 5.14 g/t Au from an arsenopyrite bearing quartz vein and values of 7.63 g/t Au and 0.61% WO, from scheelite bearing quartz veinlets (Minfile 115P11).

During the late 1960's and early 1970's Canada Tungsten explored the Josephine, Rhosgobel, Pukelman stocks for tungsten potential. At the Rhosgobel and Pukelman occurrences, gold is associated with arsenopyrite bearing quartz veins in both the intrusive and hornfelsed country rocks. Drilling in 1988 by Goldrite Mining Corp. at the Pukelman intersected 1.1 metres of 8.57 g/t Au.

Currently, Golden Predator Corp. holds 300 quartz claims west of the Josephine Property covering the Josephine, Eiger, Pukelman, and Rhosgobel stocks. During 2010 reverse circulation drilling at the 'Contact Zone' of the Pukelman Stock intercepted significant gold mineralization. RC Hole CC10-22 intercepted 137.50 g/t Au over 1.52 m from a depth of 3.05 m and RC Hole CC10-20 intercepted 0.719 g/t Au over 30.48 m from a depth of 38.1 m (Golden Predator, 2011).

The most recent and comprehensive work on the current Josephine Property was done by Newmont Exploration Ltd. In 1997, Newmont obtained strongly anomalous gold values in silt along Josephine Creek (275, 175, 85, 80 and 80 ppb), as well as most of its tributaries (130, 115, 60 and 50 ppb Au). Arsenic values in silt were also highly anomalous (up to 410 ppm). Newmont also outlined a large Au-As soil anomaly 1 km northeast of the Josephine occurrence, with values up to 80 ppb Au, 2350 ppm As and 32 ppm Sb. It measures about 2 km long and 1 km wide. The east half of Newmont's anomaly is located on the present JO claims, and the west half extends onto Golden Predator's property. The southwest part of Newmont's anomaly would most likely have extended further west along the ridge, at least as far as the 32 ppb gold-arsenic silt anomaly, except that this area was not sampled because it was outside Newmont's claims. Samples of silicified and brecciated metasediments in the anomalous area returned values of 0.1 to 0.2 g/t Au, but rock sampling was limited by poor outcrop (Stammers, 1997, Bremner, 2010).

7.0 GEOLOGY

7.1 Regional Geology

The Josephine Property is located in the Tintina gold belt of the central Yukon. The regional geology was mapped by Murphy and Heon in 1993 as underlain by a large unit of Hyland Group rocks comprising quartzo-feldspathic psammite (metamorphosed sandstone), micaceous psammite and muscovite-chlorite phyllite (see Figure 3). Other lithologies include gritty or pebbly psammite, meta-pebble conglomerate, marble and calc-silicate rocks. Younger, unmetamorphosed stratigraphy outcrop to the north and include a Lower Paleozoic carbonate unit (Rabbitkettle Formation), Road River Group shale and siltstone and Earn Group fine chert pebble conglomerate, shale and sandstone (Murphy and Heon, 1994).

The entire package of sedimentary and metasedimentary rocks have been intruded by a wide range of Cretaceous (92 Ma) aged dykes, sills and stocks known as the Tombstone Plutonic Suite (Stephens et al., 2000). Composition of these intrusive rocks varies from quartz syenite and syenite at the large Syenite Range Stock to granitic and quartz monzonite bodies which include the Josephine, Eiger, Rhosgobel and Pukelman stocks. In a study of the Bear Paw Breccia Zone, Stephens and Weekes (2001) found that significant intrusive-related gold mineralization can be found outwards of 1.5 km away from Tombstone Plutonic Suite stocks.

Stephens and Weekes (2001) defined four main styles of gold mineralization recognized in the Clear Creek area:

1. East- to east-southeast-striking, sheeted, auriferous quartz sulphide veins occurring mostly within larger Tombstone Plutonic Suite stocks (ex. Pukelman, Rhosgobel stocks);
2. Silicified fault zones in both south to southeast and east to east-southeast orientations (ex. Contact zone of the Pukelman Stock);
3. Intrusive breccias with stockwork, auriferous quartz-sulphide veins (ex. Bear Paw breccia, Saddle Stock);
4. Calc-silicate rocks with replacement/skarn-style mineralization (ex. Bear Paw breccia).

7.2 Property Geology

The Josephine Property's dominant geological feature is the Josephine Creek Fault, a north-south fault that offsets stratigraphic contacts in the area. According to Murphy (1997), the Josephine Creek Fault is one of a number of younger north-south structures in the area. It juxtaposes Upper Proterozoic Hyland Group metasediments on the west side against Cambrian to Mississippian sediments on the east side. Hyland Group rocks have attracted considerable attention recently as the host for recent Carlin-style gold discoveries in Yukon, including ATAC's Osiris and Northern Tiger's 3 Aces prospects. Murphy reported numerous undated north-trending faults and topographic lineament swarms in the McQuesten area, and that the densest

concentration of these structures occurs along and in a NNW-striking zone straddling the Josephine Creek Fault.

It has been suggested that at least several of the smaller stocks outcropping in this area are the surface expression of a larger intrusion at depth. Radiometric data indicate that the Josephine stock and three nearby intrusions to the west may be part of a single intrusive body. Such a buried intrusion could have focused late stage gold-bearing solutions into structures that cut the overlying sediments, yielding structurally controlled arrays of gold-bearing veins as described at Dublin Gulch. This model is supported by the high density of structures reported to occur in a corridor either side of Josephine Creek, and widespread gold-arsenic soil and talus fines anomalies reported by companies that were previously active in the area, including Newmont and Kennecott.

The southern part of the block is close to the Big Creek Stock, a 2.7 x 1 km Cretaceous intrusion. The JO claims in this southern area are close to the BIG showing (Minfile 115P061), discovered by Don Murphy and Danielle Heon of the Yukon Geological Survey in 1993. Mineralized samples collected by Murphy and Heon assayed 377 ppb gold and 478 ppm manganese (vein), 435 ppb gold, 72 ppm bismuth, 88 ppm arsenic, 15.3 ppm silver, 242 ppm lead and 303 ppm tungsten (vein, disseminated); and 20 ppb gold and 789 ppm arsenic (breccia) (Murphy and Heon, 1994).

The JO claims cover two 98th percentile regional gold silt anomalies (43 and 39 ppb Au) in Josephine Creek. Both gold anomalies are coincident with 99th percentile As anomalies, and the 43 ppb Au anomaly also coincides with a 90th percentile Sb anomaly. Local silt sampling by Newmont in 1997 returned substantially higher values than this from Josephine Creek and its tributaries (see Property History). The JO claim block also covers the inferred source of a 95th percentile regional gold silt anomaly (19 ppb) and a 98th percentile tungsten anomaly in an east-flowing creek that drains the south part of the property. As mentioned, tungsten correlates strongly with Cretaceous intrusions and gold in this area (Modified from Bremner, 2010).

The 2011 work program involved reconnaissance level prospecting and mapping. The northeastern area of the property is dominated by well-foliated chlorite and mica schists and quartzite. One outcrop of quartz-pebble conglomerate was observed. Quartz vein stockwork was also common in this area as 1-10 cm quartz vein 'swarms' in varying orientations. Gossanous metasediments are observed with iron staining and oxidized, limonitic pyrite. Rocks generally strike EW and dip shallowly to the north. The northwestern area is comprised of chlorite and mica schists, slate, and isolated outcrops of porphyry, likely dikes related to the Josephine Stock. Quartz vein boulders up to 1 meter in diameter were also found. To the south of Big Creek the bedrock is generally well foliated metasedimentary mica schists with abundant quartz veining. The strike of this unit tends to be NW here, dipping shallowly to the northeast. Mineralization is very limited across the property. Arsenopyrite was observed in the metasediments and porphyry in the northwest, and minor pyrite in the metasediments south of Big Creek.

Josephine Property

Fig. 3: Bedrock Geology

Goldspike Exploration Inc.

Clear Creek area, Dawson Mining District

Legend

Bedrock Geology

Rock Type

- chert/siltstone/phyllite/limestone/conglo
- granite/quartz monzonite
- granite/quartz monzonite/granodiorite
- limestone
- mudstone/shale/siltstone/phyllite/schist
- phyllite/shale/sandstone/grit/conglomerate/limestone
- shale/chert
- shale/chert/siltstone
- shale/claystone/siltstone/sandstone/conglo/coal
- shale/quartzite
- siltstone/argillite/volcanic
- siltstone/sandstone/conglo
- slate
- syenite/quartz syenite/granite/monzogranite/clinopyroxenite
- Faults
- Josephine Property claims

Regional stream geochemisty

Au (ppb)

- 0.0 - 15.0
- 15.1 - 74.0
- 74.1 - 215.0
- 215.1 - 482.0
- 482.1 - 1170.0

1:50,000

0 950 1,900 3,800 5,700 7,600 Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

8.0 2011 WORK PROGRAM

8.1 Sampling Method and Approach

An 8 day geochemical sampling program was conducted on the Josephine Property from July 18th, 2011 to July 25th, 2011. Working out of a camp, a crew of 6 soil samplers, 2 prospectors and one geologist collected 794 soil samples, 24 silt samples, and 90 rock samples (see Figure 4 for sample locations). A Hughs 500D helicopter was used for the duration of the program.

A ridge and spur soil sampling program was planned before field work was conducted. Using ArcGIS, soil sample traverses were plotted at 50m spacings and downloaded onto samplers' GPS units. Once in the field, samplers used Dutch augurs to collect an adequate soil sample from the 'C' horizon, placing it in a Kraft paper bag, marking the location with GPS, and marking the location with flagging tape labeled with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. The GPS units were downloaded daily for plotting in ArcGIS. Soil samples were hung up to dry, then packed and shipped to the lab. Soil sample descriptions can be found in Appendix I.

Silt samples were taken in major creeks and tributaries. A low energy zone of the stream was located and a collapsible shovel, pan, or hand was used to collect a sample. Sample locations were marked with a GPS unit and flagged with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. Silt sample descriptions can be found in Appendix II.

Rock samples were taken based on mineralogy, structure and lithology. Samples were placed inside labeled plastic poly bags with the corresponding sample tag. Sample descriptions were recorded in a field notebook and the location recorded by GPS unit. Sample locations were marked with flagging tape labeled with the sample number. Rock sample descriptions can be found in Appendix III.

8.2 Sample Preparation, Analysis, and QA/QC

The soil and silt samples were dried at 60° C and sieved to -80 mesh (<177 microns). A 15.0 gram sub-sample was digested in hot (95° C) aqua regia (HCl-HNO3-H2O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques (Acme's Group 1DX2). Multi-elemental analysis of 36 elements was made.

The rock samples were crushed, split to 250 g, pulverized, and a split was sieved to -200 mesh. The same analytical procedure (Acme's Group 1DX2) was used.

Quality control samples from the lab include control blanks, duplicates and standards. Sample blanks (BLK), pulp duplicates and standards (STD DS8) were run with the batch analysis; no problems were noted with analytical accuracy or precision. Analytical results for the soil and rock samples are given in Appendices III and IV, respectively.

8.3 Results

Soil Samples

The soil sampling program conducted on the Josephine Property yielded numerous gold anomalies. Furthermore, arsenic and antimony levels tend to have a positive correlation with elevated gold values. Trends of multiple anomalous samples (as high as 85 ppb Au, 200 ppm As) are fairly obvious along Josephine Creek and its tributaries (Figures 5 and 6). Due to the results of the silt samples collected in these creeks (discussed below) and the history of the area, it is reasonable to assume that these numbers represent fluvial deposits rather than the in-situ underlying bedrock. However, in the southwestern corner of the northern block, there is a series of 10 gold anomalies ranging from 13 to 60 ppb Au starting at the top of a 4600 ft elevation 'knob' and continuing down to the valley bottom at 4000 ft. Arsenic levels are higher in these samples than at the valley bottom (up to 625 ppm As).

From the 794 samples, the highest concentration of gold in a soil sample on the property was found close to a peak south of Josephine Creek and north of Big Creek. Sample 1221355 yielded 100.6 ppb Au and 1416 ppm As. The next two samples downhill to the north were anomalous at 34.1 and 16.7 ppb Au. The arsenic to gold ratio is quite consistent in this area.

To the south of Big Creek in the West Ridge area there are numerous weakly anomalous samples. Also, one 25 ppb Au sample was recovered in the northeastern area of the property. Soil sample results can be found in Appendix IV.

Silt Samples

Twenty-four silt samples were taken from the property. In Josephine Creek, the northern section of the property, highly anomalous gold values were found (Figure 7). The main creek yielded multiple high gold values over a 1.5 km stretch including 985 ppb, 794 ppb, and 463 ppb Au. A large tributary joining Josephine Creek from the west yielded 134 ppb Au over 2 km away from the intersection. Arsenic is fairly high (up to 400 ppm) in all samples and only roughly correlates to gold values.

Three samples were taken from the southern extent of the property in a tributary of Big Creek. One of the samples yielded 27.3 ppb Au. Silt sample results can be found in Appendix V.

Rock Samples

Ninety rock samples were taking from the property. Although gossanous zones and abundant quartz veining was observed on the property, visible sulphide mineralization is rare. As such, the majority of samples did not yield favourable gold results. The highest value retrieved was from sample 1204334 (Photo 2), a gossanous, recrystallized porphyry near a metasedimentary contact. It yielded 225 ppb Au and >1% As. This sample was recovered in the northwest area of the property. Other samples yielding up to 40 ppb Au are generally heavily oxidized metasedimentary schists and quartzites with leached out remnant sulphides. Sample 1221793, taken from a porphyry boulder just south of Big Creek, is anomalous in lead, zinc and arsenic. Rock sample results can be found in Appendix VI.

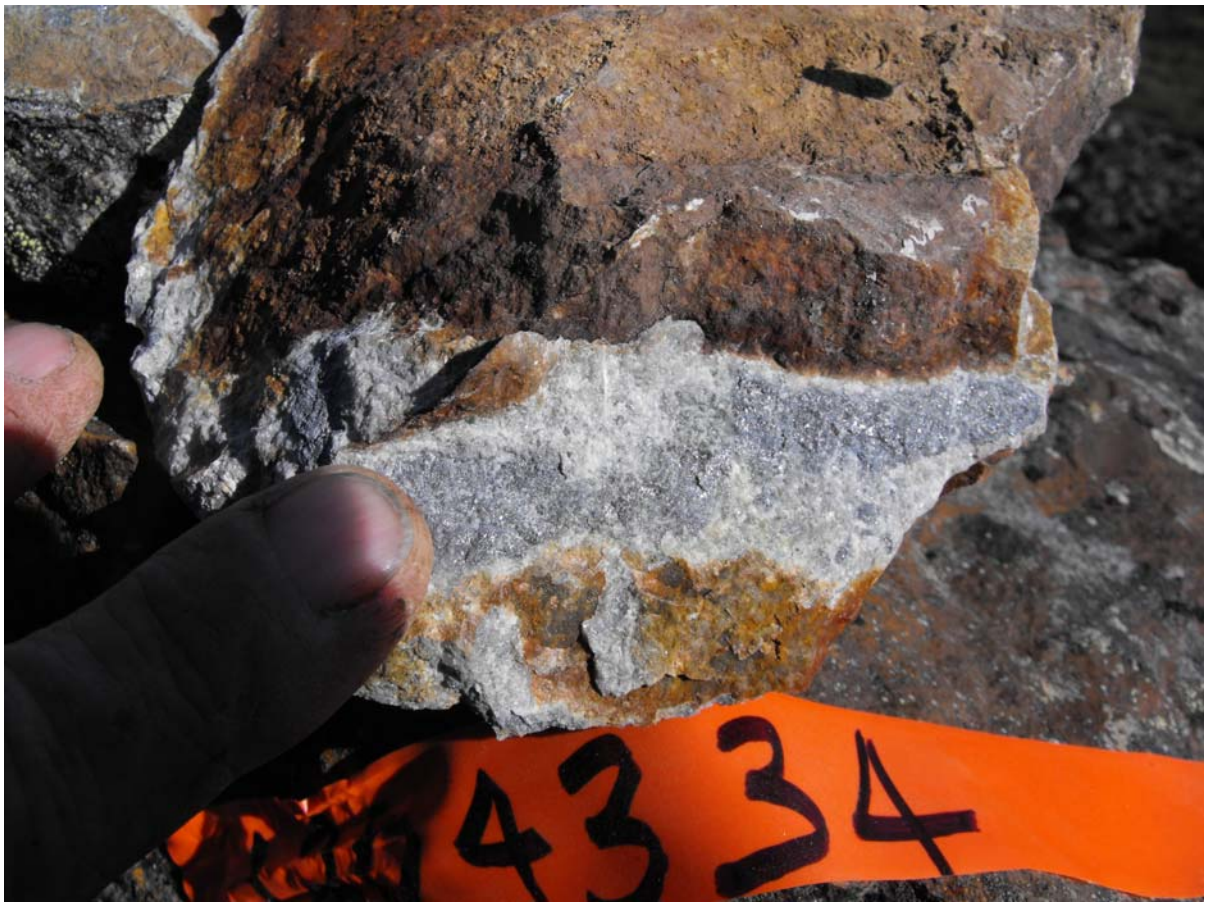


Photo 2: Rock sample 1204334 with visible arsenopyrite returned 225 ppb gold and >1% arsenic.

Josephine Property

Fig. 4: Sample Location Map

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

- Rock samples
- Silt samples
- Soil samples
- Josephine Property
- Mining district boundary

1:20,000

0 385 770 1,540 2,310 3,080
Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

397000 398000 399000 400000 401000 402000 403000 404000 405000 406000 407000 408000

7089000 7088000 7087000 7086000 7085000 7084000 7083000 7082000 7081000 7080000

Josephine Creek
Granite Creek
Big Creek
Left Clear Creek
West Ridge

Josephine Property

Fig. 5: Soil Geochemistry - Gold

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

Soil sample geochemistry

Au (ppb)

- 0-10
- 10-25
- 25-50
- 50-75
- 75-100.6

Josephine Property

Mining district boundary

N

1:20,000

0 385 770 1,540 2,310 3,080
Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

Josephine Property

Fig. 6: Soil Geochemistry - Arsenic

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

Soil sample geochemistry

As (ppm)

- 0 - 30
- 30 - 100
- 100 - 500
- 500 - 800
- 800 - 1416.7
- Josephine Property
- Mining district boundary

1:20,000

0 385 770 1,540 2,310 3,080 Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

397000 398000 399000 400000 401000 402000 403000 404000 405000 406000 407000 408000

7089000 7088000 7087000 7086000 7085000 7084000 7083000 7082000 7081000 7080000

Josephine Creek
Granite Creek
Big Creek
Left Clear Creek
West Ridge

Josephine Property

Fig. 7: Silt Sample Results in Josephine Creek and Tributaries

Goldspike Exploration Inc.

Clear Creek area, Dawson Mining District

Legend

Silt sample results Au (ppb)	Soil sample results Au (ppb)
1.5 - 10	0-10
10 - 50	10-25
50 - 100	25-50
100 - 500	50-75
500 - 985	75-100.6

Rock samples with select Au results

Regional stream geochem Au (ppb)

- 0.0 - 15.0
- 15.1 - 74.0
- 74.1 - 215.0
- 215.1 - 482.0
- 482.1 - 1170.0

Josephine Property

N

1:6,000

0 115 230 460 690 920 Meters

Date: March, 2012
Mapsheets: 115P14, 115P15
Datum: UTM NAD83 Zone 8

399500 400000 400500 401000 401500 402000 402500

7088500 7088000 7087500 7087000 7086500 7086000

4.1 27.5 9.7 30 42.9 24.2 794.4 985 14 42 30.9 106.6 43 14.8 134.3 66.3 9.1 35.7 51.5 226 463.1 22.3 30.2 11.8 10.7 22 30 39 31 Josephine Creek

9.0 CONCLUSIONS AND RECOMMENDATIONS

The Josephine Property is located in a geological setting favourable to intrusion-related gold deposits. The adjacent Josephine Stock, regional placer history, and GSC-collected silt anomalies on the property make it a desirable exploration target.

The silt samples taken from the property have returned highly anomalous gold values. Pursuant to these results, Goldspike has staked a 5 mile placer lease and 2 placer claims on Josephine Creek and its main tributary.

Although soil sampling returned many anomalous gold results, the majority are located in the Josephine Creek valley and are likely a product a fluvial gold transportation. That said, two areas of the property have shown promise for follow-up hard rock exploration. The first is related to the arsenopyrite-rich sample located in the northern block of the property, southwestern corner. This sample was taken from a small porphyry outcrop, likely related to the nearby Josephine Stock. The high arsenic values found in the rock combined with the arsenic/gold anomalous soil samples taken within 150 meters may indicate that the source of the soil anomalies is local bedrock rather than fluvial at this particular location. It also appears on government claim maps that there is a wedge at this location which should be staked. Grid-style soil sampling and further prospecting of the bedrock and scree slopes is recommended.

The second area involves the 100.6 ppb Au sample located near the middle of the property between Josephine Creek and Big Creek. This sample has two more anomalous samples downhill from it which may indicate gold mineralization locally or a short distance uphill. Grid-style soil sampling is recommended. Due to the lack of bedrock, and pending further positive soil results, a trenching operation is also recommended.

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Yukon Minfile 115P061 (2004): Big, Yukon Geological Survey.

STATEMENT OF EXPENDITURES

EXPLORATION COSTS ASSOICATED WITH THE JOESPHINE PROPERTY BETWEEN JULY18th and JULY 25th 2011			
ITEM	**COST/ UNIT**	**UNIT AMOUNT**	**TOTAL**
Hughes 500D Helicopter /Hr	$1,182.00	17.6	$20,803.20
ROCK ASSAY	$28.88	90	$2,599.20
SOIL ASSAY	$18.00	794	$14,292.00
SILT ASSAY	$18.00	24	$432.00
Project Geologist / Day	$500.00	8	$4,000.00
5 x Soil Samplers	$300.00	40	$12,000.00
Cook	$300.00	8	$2,400.00
2 x Prospector	$350.00	16	$5,600.00
Camp Rental / day	$1,000.00	8	$8,000.00
Food / day	$400.00	8	$3,200.00
Truck Rental	$140.00	8	$1,120.00
Fuel	$50.00	8	$400.00
		TOTAL	**$74,846.40**

CERTIFICATE OF QUALIFICATIONS

I, Daniel Ferraro, of 835 Berkshire Dr., Woodstock, Ontario, Canada, certify that:

1. I am a graduate of Lakehead University, 2008, and a hold an H. B.Sc. Geology degree.

2. I am an independent geological consultant.

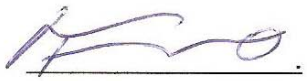
3. I am a member of the Ontario Prospectors Association (2010).

4. I have been employed as a geological assistant for the Ontario Geological Survey and the Geological Survey of Canada during the summers of, respectively, 2006 and 2007.

5. I have been working in the mineral exploration industry since 2008 for Pacific North West Capital Corporation, East West Resources Corporation, Rainy Mountain Royalty Corporation, Black Panther Mining Corporation, White Tiger Mining Corporation, Trillium North Minerals Ltd., and Goldspike Exploration Inc.

6. This report was prepared by myself.

7. I have no personal knowledge from the date of this certificate of any material fact or change not reflected in this report.



Date: Mar 1, 2012

Daniel Ferraro, H.B.Sc.

Appendix I: Soil Sample Descriptions

Soil Sample Descriptions

UTM NAD83 Zone 8

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1203301	399891	7087913	1353	20-Jul-11	Cat	45	b/c	light brown		60				40	weathered bedrock	dry	alpine	ridge top
1203302	399938	7087933	1337	20-Jul-11	Cat	35	b	light brown		20				80	weathered bedrock	moist	alpine	ridge top
1203303	399991	7087927	1325	20-Jul-11	Cat	30	b	dark brown		10				90	weathered bedrock	moist	alpine	ridge top
1203304	400033	7087952	1307	20-Jul-11	Cat	35	b/c	dark brown		30				70	weathered bedrock	moist	alpine	ridge top
1203305	400074	7087978	1294	20-Jul-11	Cat	30	b/c	yellow orange		40				60	weathered bedrock	moist	alpine	ridge top
1203306	400118	7087995	1276	20-Jul-11	Cat	30	b/c	light brown		20				80	weathered bedrock	moist	alpine	ridge top
1203307	400167	7088001	1257	20-Jul-11	Cat	30	b/c	light brown		10				90	weathered bedrock	moist	alpine	ridge top
1203308	400215	7088003	1245	20-Jul-11	Cat	20	b/c	light brown		20				80	weathered bedrock	moist	alpine	ridge top
1203309	400261	7088021	1236	20-Jul-11	Cat	20	b/c	light brown		30				70	weathered bedrock	moist	alpine	ridge top
1203310	400311	7088020	1235	20-Jul-11	Cat	20	b/c	light brown		70				30	weathered bedrock	moist	alpine	ridge top
1203311	400360	7088034	1231	20-Jul-11	Cat	25	b/c	light brown		10				90	weathered bedrock	moist	alpine	ridge top
1203312	400405	7088062	1227	20-Jul-11	Cat	15	b/c	light grey		60				40	weathered bedrock	moist	alpine	ridge top
1203313	400458	7088069	1222	20-Jul-11	Cat	25	b/c	light grey		5				95	weathered bedrock	moist	alpine	ridge top
1203314	400505	7088093	1233	20-Jul-11	Cat	55	b/c	light brown						100	weathered bedrock	moist	alpine	ridge top
1203315	400561	7088088	1233	20-Jul-11	Cat	30	b/c	light grey		10				90	weathered bedrock	moist	alpine	ridge top
1203316	400612	7088096	1236	20-Jul-11	Cat	30	b/c	light grey		30				70	weathered bedrock	moist	alpine	ridge top
1203317	400669	7088082	1227	20-Jul-11	Cat	30	b/c	light grey		70				30	weathered bedrock	moist	alpine	ridge top
1203318	400716	7088074	1218	20-Jul-11	Cat	35	b/c	light grey		50				50	weathered bedrock	moist	alpine	ridge top
1203319	400770	7088076	1220	20-Jul-11	Cat	25	b/c	light brown		80				20	weathered bedrock	moist	alpine	ridge top
1203320	400819	7088073	1212	20-Jul-11	Cat	30	b/c	dark grey		90				10	weathered bedrock	moist	alpine	ridge top
1203321	400902	7088058	1216	21-Jul-11	Cat and Chris	30	b/c	light brown		10				90	weathered bedrock	moist	buck brush	ridge top
1203322	400940	7088042	1219	21-Jul-11	Cat and Chris	20	b/c	light brown		20				80	weathered bedrock	moist	buck brush	ridge top
1203323	400983	7088028	1210	21-Jul-11	Cat and Chris	40	b/c	light grey		30				70	weathered bedrock	moist	buck brush	bench
1203324	401035	7087992	1207	21-Jul-11	Cat and Chris	30	b/c	white		20				80	weathered bedrock	moist	buck brush	bench
1203325	401080	7087977	1204	21-Jul-11	Cat and Chris	30	b/c	light grey		20				80	weathered bedrock	moist	buck brush	bench
1203326	401124	7087954	1197	21-Jul-11	Cat and Chris	30	b/c	light grey		40				60	weathered bedrock	moist	buck brush	mid slope
1203327	401161	7087928	1176	21-Jul-11	Cat and Chris	40	b/c	light grey		20				80	weathered bedrock	moist	evergreen forest	mid slope
1203328	401211	7087907	1153	21-Jul-11	Cat and Chris	60	b/c	light grey		40				60	weathered bedrock	moist	evergreen forest	mid slope
1203329	401252	7087878	1141	21-Jul-11	Cat and Chris	40	b/c	light grey		20				80	weathered bedrock	moist	evergreen forest	mid slope
1203330	401296	7087856	1139	21-Jul-11	Cat and Chris	60	b	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1203331	401334	7087832	1117	21-Jul-11	Cat and Chris	35	b/c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203332	401381	7087809	1096	21-Jul-11	Cat and Chris	30	c	light brown		5				95	weathered bedrock	moist	buck brush	mid slope
1203333	401430	7087784	1074	21-Jul-11	Cat and Chris	50	b/c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1203334	401467	7087758	1061	21-Jul-11	Cat and Chris	50	c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1203335	401505	7087728	1047	21-Jul-11	Cat and Chris	50	c	yellow orange		5				95	weathered bedrock	moist	buck brush	mid slope
1203336	401550	7087708	1026	21-Jul-11	Cat and Chris	50	c	yellow orange		5				95	weathered bedrock	moist	buck brush	mid slope
1203337	401591	7087679	1013	21-Jul-11	Cat and Chris	50	c	light brown		5				95	weathered bedrock	moist	buck brush	mid slope
1203338	401621	7087660	1004	21-Jul-11	Cat and Chris	30	b/c	light brown						100	weathered bedrock	moist	buck brush	valley bottom
1203339	401577	7087653	1013	21-Jul-11	Cat and Chris	50	b/c	light brown		10				90	weathered bedrock	moist	buck brush	valley bottom
1203340	401522	7087651	1022	21-Jul-11	Cat and Chris	30	b/c	light brown		5				95	weathered bedrock	moist	buck brush	valley bottom
1203341	401492	7087666	1041	21-Jul-11	Cat and Chris	30	b/c	yellow orange		20				80	weathered bedrock	moist	buck brush	mid slope
1203342	401442	7087674	1055	21-Jul-11	Cat and Chris	30	b/c	yellow orange				50		50	weathered bedrock	moist	evergreen forest	mid slope
1203343	401383	7087685	1062	21-Jul-11	Cat and Chris	60	c	white		90				10	weathered bedrock	moist	deciduous forest	mid slope
1203344	401343	7087705	1071	21-Jul-11	Cat and Chris	40	b/c	light brown		90				10	weathered bedrock	moist	deciduous forest	mid slope
1203345	401298	7087713	1082	21-Jul-11	Cat and Chris	40	b/c	dark brown		50				50	weathered bedrock	moist	deciduous forest	mid slope
1203346	401254	7087723	1088	21-Jul-11	Cat and Chris	30	b/c	dark brown		5				95	weathered bedrock	moist	deciduous forest	mid slope
1203347	401203	7087732	1102	21-Jul-11	Cat and Chris	30	b/c	dark brown		5				95	weathered bedrock	moist		
1203348	400312	7086666	1403	22-Jul-11	Cat and Chris	20	b/c	light brown		20				80	weathered bedrock	moist	alpine	ridge top
1203349	400269	7086635	1394	22-Jul-11	Cat and Chris	15	b/c	light grey		50				50	weathered bedrock	moist	alpine	ridge top
1203350	400239	7086594	1391	22-Jul-11	Cat and Chris	18	c	light grey		10				90	weathered bedrock	moist	alpine	ridge top
1203401	402549	7085103	1289	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	alpine	mid slope
1203402	402534	7085133	1285	24-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	wet	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1203403	402515	7085176	1277	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203404	402493	7085223	1270	24-Jul-11	Cat and Chris	30	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203405	402477	7085275	1259	24-Jul-11	Cat and Chris	40	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203406	402448	7085318	1250	24-Jul-11	Cat and Chris	40	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203407	402435	7085352	1244	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203408	402401	7085397	1232	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203409	402364	7085431	1223	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203410	402325	7085459	1217	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203411	402292	7085489	1204	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203412	402247	7085521	1191	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203413	402204	7085547	1180	24-Jul-11	Cat and Chris	10	b/c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203414	402159	7085573	1162	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203415	402119	7085599	1156	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203416	402077	7085627	1141	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203417	402034	7085656	1127	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203418	401996	7085685	1116	24-Jul-11	Cat and Chris	25	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203419	401976	7085703	1107	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203420	402905	7084040	1505	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203421	402896	7084092	1497	24-Jul-11	Cat and Chris	20	b/c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203422	402889	7084162	1470	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203423	402869	7084197	1462	24-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203424	402862	7084236	1451	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203425	402848	7084284	1442	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203426	402830	7084332	1438	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203427	402813	7084383	1428	24-Jul-11	Cat and Chris	15	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203428	402785	7084427	1420	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203429	402781	7084469	1399	24-Jul-11	Cat and Chris	30	c	dark brown		5				95	weathered bedrock	moist	evergreen forest	mid slope
1203430	402914	7083990	1506	24-Jul-11	Cat and Chris	30	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203431	402932	7083951	1502	24-Jul-11	Cat and Chris	25	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203432	404577	7081799	1309	25-Jul-11	Chris	15	b/c	light brown						100	weathered bedrock	moist	alpine	bench
1203433	404556	7081849	1300	25-Jul-11	Chris	20	b/c	light brown						100	weathered bedrock	moist	alpine	bench
1203434	404539	7081892	1292	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203435	404522	7081940	1284	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203501	400210	7086552	1391	22-Jul-11	Cat and Chris	18	c	light brown		5				95	weathered bedrock	moist	alpine	ridge top
1203502	400163	7086539	1397	22-Jul-11	Cat and Chris	18	b/c	light brown		10				90	weathered bedrock	moist	alpine	ridge top
1203503	400114	7086525	1408	22-Jul-11	Cat and Chris	30	b/c	light brown		15				85	weathered bedrock	moist	alpine	ridge top
1203504	400052	7086512	1411	22-Jul-11	Cat and Chris	30	b/c	light brown		5				95	weathered bedrock	moist	alpine	mid slope
1203505	400012	7086502	1415	22-Jul-11	Cat and Chris	20	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203506	399962	7086490	1422	22-Jul-11	Cat and Chris	15	b/c	light brown		50				50	weathered bedrock	moist	alpine	mid slope
1203507	399911	7086471	1426	22-Jul-11	Cat and Chris	30	b/c	light brown		50				50	weathered bedrock	moist	alpine	mid slope
1203508	399871	7086457	1423	22-Jul-11	Cat and Chris	20	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203509	399821	7086464	1412	22-Jul-11	Cat and Chris	30	c	light brown		15				85	weathered bedrock	moist	alpine	mid slope
1203510	399777	7086476	1393	22-Jul-11	Cat and Chris	50	c	dark grey		15				85	weathered bedrock	moist	alpine	mid slope
1203511	399727	7086485	1376	22-Jul-11	Cat and Chris	20	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203512	399680	7086496	1360	22-Jul-11	Cat and Chris	20	c	dark brown		15				85	weathered bedrock	moist	alpine	mid slope
1203513	399627	7086519	1355	22-Jul-11	Cat and Chris	40	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203514	399584	7086530	1351	22-Jul-11	Cat and Chris	20	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203515	399534	7086552	1344	22-Jul-11	Cat and Chris	20	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1203516	399491	7086563	1338	22-Jul-11	Cat and Chris	30	c	light brown		5				95	weathered bedrock	moist	buck brush	mid slope
1203517	399445	7086588	1327	22-Jul-11	Cat and Chris	40	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1203518	399403	7086618	1310	22-Jul-11	Cat and Chris	50	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1203519	399363	7086643	1295	22-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203520	399392	7086691	1289	22-Jul-11	Cat and Chris	30	c	light brown		5				95	weathered bedrock	moist	buck brush	mid slope
1203521	399426	7086724	1287	22-Jul-11	Cat and Chris	5	a/b	dark brown		50				50	weathered bedrock	moist	buck brush	mid slope
1203522	399467	7086763	1282	22-Jul-11	Cat and Chris	20	b	dark brown		5				95	weathered bedrock	moist	buck brush	mid slope
1203523	399496	7086802	1272	22-Jul-11	Cat and Chris	40	c	light brown						100	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1203524	399530	7086838	1262	22-Jul-11	Cat and Chris	40	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203525	399557	7086873	1256	22-Jul-11	Cat and Chris	30	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203526	399590	7086917	1249	22-Jul-11	Cat and Chris	50	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1203527	399630	7086959	1235	22-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203528	399661	7086992	1226	22-Jul-11	Cat and Chris	30	c	light brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203529	399685	7087033	1216	22-Jul-11	Cat and Chris	30	c	dark brown					40	60	weathered bedrock	wet	buck brush	valley bottom
1203530	399707	7087067	1212	22-Jul-11	Cat and Chris	30	c	dark brown		5				95	weathered bedrock	moist	buck brush	valley bottom
1203531	399779	7087107	1216	22-Jul-11	Cat and Chris	50	c	light brown						100	weathered bedrock	moist	buck brush	valley bottom
1203532	399800	7087134	1211	22-Jul-11	Cat and Chris	50	c	light brown						100	weathered bedrock	moist	evergreen forest	valley bottom
1203533	399838	7087164	1213	22-Jul-11	Cat and Chris	50	c	light brown						100	weathered bedrock	moist	evergreen forest	valley bottom
1203534	399870	7087204	1209	22-Jul-11	Cat and Chris	50	c	light brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203535	399913	7087242	1208	22-Jul-11	Cat and Chris	30	c	dark brown		5				95	weathered bedrock	moist	evergreen forest	mid slope
1203536	399943	7087276	1206	22-Jul-11	Cat and Chris	20	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203537	399975	7087310	1196	22-Jul-11	Cat and Chris	50	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203538	400016	7087346	1192	22-Jul-11	Cat and Chris	40	c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203539	400060	7087370	1194	22-Jul-11	Cat and Chris	20	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203540	400098	7087396	1195	22-Jul-11	Cat and Chris	30	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1203541	400473	7086751	1382	23-Jul-11	Chris	50	b/c	dark brown		50				50	weathered bedrock	moist	alpine	ridge top
1203542	400517	7086781	1372	23-Jul-11	Chris	20	b/c	light brown		10				90	weathered bedrock	moist	alpine	ridge top
1203543	400557	7086809	1366	23-Jul-11	Chris	20	b/c	light brown		50				50	weathered bedrock	moist	alpine	mid slope
1203544	400598	7086837	1348	23-Jul-11	Chris	20	b/c	light brown		50				50	weathered bedrock	moist	alpine	mid slope
1203545	400642	7086865	1330	23-Jul-11	Chris	20	b/c	dark brown		10				90	weathered bedrock	moist	alpine	mid slope
1203546	400677	7086893	1320	23-Jul-11	Chris	20	c	light brown		50				50	weathered bedrock	moist	alpine	mid slope
1203547	400717	7086923	1306	23-Jul-11	Chris	20	c	light brown		50				50	weathered bedrock	wet	buck brush	mid slope
1203548	400761	7086952	1294	23-Jul-11	Chris	30	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1203549	400803	7086980	1280	23-Jul-11	Chris	30	c	dark brown		20				80	weathered bedrock	moist	buck brush	mid slope
1203550	400845	7087011	1265	23-Jul-11	Chris	50	c	light brown		20				80	weathered bedrock	moist	evergreen forest	mid slope
1204314	402733	7086485	1431	18-Jul-11	Moses	30-50			2								bog birch alpine	
1204316	402647	708617	1347	18-Jul-11	Moses	30			1								bog birch alpine	colluvial slope
1217348	403383	7088445	1476	20-Jul-11	Lukas	30-40	c	brown	30	10				60	weathered bedrock	moist	buck brush	ridge top
1217349	403372	7088405	1467	20-Jul-11	Lukas	40-50	c	brown	30	50				20	weathered bedrock	moist	buck brush	ridge top
1217350	403354	7088349	1452	20-Jul-11	Lukas	30-40	c	light brown	50	30				20	weathered bedrock	moist	buck brush	ridge top
1217351	403339	7088297	1438	20-Jul-11	Lukas	40-50	c	light brown	30	10				60	weathered bedrock	moist	buck brush	ridge top
1217352	403328	7088247	1429	20-Jul-11	Lukas	40-50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	ridge top
1217353	403321	7088198	1417	20-Jul-11	Lukas	60-70	c	light brown	10					90	weathered bedrock	moist	buck brush	ridge top
1217354	403314	7088145	1403	20-Jul-11	Lukas	50-60	c	light brown	20					80	weathered bedrock	moist	buck brush	ridge top
1217355	403304	7088100	1396	20-Jul-11	Lukas	80	c	light brown	10					90	weathered bedrock	moist	buck brush	ridge top
1217356	403295	7088047	1387	20-Jul-11	Lukas	40-50	c	light grey	20					80	weathered bedrock	moist	buck brush	ridge top
1217357	403293	7088005	1380	20-Jul-11	Lukas	30-40	c	light grey	5	5				90	weathered bedrock	moist	buck brush	ridge top
1217358	403299	7087953	1373	20-Jul-11	Lukas	60-70	c	dark brown	30					70	weathered bedrock	moist	buck brush	ridge top
1217359	403287	7087905	1364	20-Jul-11	Lukas	40-50	c	light brown	10					90	weathered bedrock	moist	buck brush	ridge top
1217360	403279	7087857	1354	20-Jul-11	Lukas	30-40	c	light grey	10					90	weathered bedrock	moist	buck brush	ridge top
1217361	403268	7087810	1346	20-Jul-11	Lukas	50-60	c	light brown	20					80	weathered bedrock	moist	buck brush	ridge top
1217363	402701	7086858	1417	18-Jul-11	Lukas	30-40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	ridge top
1217364	402651	7086869	1446	18-Jul-11	Lukas	30-40	c	light brown	10	5				85	weathered bedrock	moist	buck brush	ridge top
1217365	402600	7086889	1470	18-Jul-11	Lukas	30-40	c	light brown		20				80	weathered bedrock	moist	buck brush	ridge top
1217366	402562	7086903	1369	18-Jul-11	Lukas	30-40	c	light brown		10				90	weathered bedrock	part frozen	buck brush	mid slope
1217367	402514	7086911	1393	18-Jul-11	Lukas	30-40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	mid slope
1217368	402462	7086932	1405	18-Jul-11	Lukas	30-40	c	light grey		10				90	weathered bedrock	moist	buck brush	mid slope
1217369	402416	7086941	1379	18-Jul-11	Lukas	30-40	c	light grey		10		10		80	weathered bedrock	moist	buck brush	mid slope
1217370	402367	7086950	1346	18-Jul-11	Lukas	40-50	c	brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1217371	402314	7086957	1342	18-Jul-11	Lukas	50-60	c	brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1217372	402277	7086981	1300	18-Jul-11	Lukas	40-50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1217373	402226	7087000	1299	18-Jul-11	Lukas	30-40	a	brown	70	30					weathered bedrock	dry	buck brush	mid slope
1217374	402189	7087027	1291	18-Jul-11	Lukas	30-40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1217375	402147	7087043	1279	18-Jul-11	Lukas	50-60	c	brown	40	10				50	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1217376	402103	7087072	1256	18-Jul-11	Lukas	50-60	poor - a	brown	60	40					weathered bedrock	moist	buck brush	mid slope
1217377	402059	7087106	1236	18-Jul-11	Lukas	40-50	c	brown	40	20				40	weathered bedrock	moist	buck brush	mid slope
1217378	402013	7087129	?	18-Jul-11	Lukas	40-50	poor - a	dk brown	70	10				20	weathered bedrock	moist	buck brush	mid slope
1217379	403257	7087758	1337	20-Jul-11	Lukas	40-50	c	light brown	20	10				70	weathered bedrock	moist	buck brush	ridge top
1217380	403241	7087708	1330	20-Jul-11	Lukas	50-60	c	light brown		10				90	weathered bedrock	moist	buck brush	bench
1217381	403236	7087652	1329	20-Jul-11	Lukas	40-50	c	light brown		10				90	weathered bedrock	moist	buck brush	bench
1217382	403235	7087601	1330	20-Jul-11	Lukas	40-50	c	light brown		10				90	weathered bedrock	moist	buck brush	bench
1217383	403236	7087556	1329	20-Jul-11	Lukas	50-60	c	light brown		10				90	weathered bedrock	moist	buck brush	bench
1217384	403234	7087502	1331	20-Jul-11	Lukas	30-40	c	light brown		30				70	weathered bedrock	moist	buck brush	bench
1217385	403223	7087458	1333	20-Jul-11	Lukas	30-40	c	light brown		10		10		80	weathered bedrock	moist	buck brush	plateau
1217386	403231	7087397	1334	20-Jul-11	Lukas	30-40	c	light brown		20				80	weathered bedrock	moist	buck brush	plateau
1217387	403214	7087361	1336	20-Jul-11	Lukas	30-40	c	light brown		20				80	weathered bedrock	moist	buck brush	plateau
1217388	403196	7087322	1339	20-Jul-11	Lukas	40-50	c	light brown		10				90	weathered bedrock	wet	buck brush	plateau
1217389	403175	7087277	1343	20-Jul-11	Lukas	40-50	c	light brown		20				80	weathered bedrock	moist	buck brush	plateau
1217390	403145	7087237	1348	20-Jul-11	Lukas	40-50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	plateau
1217391	403121	7087191	1353	20-Jul-11	Lukas	30-40	c	light brown		10				90	weathered bedrock	moist	buck brush	plateau
1217392	403090	7087151	1359	20-Jul-11	Lukas	50-60	c	light brown	10	10				80	weathered bedrock	moist	buck brush	plateau
1217393	403033	7087130	1364	20-Jul-11	Lukas	40-50	c	light brown	10	20				70	weathered bedrock	moist	buck brush	plateau
1217394	402983	7087099	1372	20-Jul-11	Lukas	40-50	c	light brown	10	20				70	weathered bedrock	moist	buck brush	ridge top
1217395	402937	7087073	1377	20-Jul-11	Lukas	40-50	c	light brown	5	10				85	weathered bedrock	part. frozen	buck brush	ridge top
1217396	400686	7088199	1220	21-Jul-11	Lukas	40	c	light brown							weathered bedrock	moist	buck brush	ridge top
1217397	400745	7088214	1206	21-Jul-11	Lukas	40	c	dark brown	20	50				30	weathered bedrock	moist	buck brush	ridge top
1217398	400787	7088210	1194	21-Jul-11	Lukas	40	b	dark brown	60	40					weathered bedrock	moist	buck brush	mid slope
1217399	400838	7088214	1176	21-Jul-11	Lukas	40	c	dark brown	40	40				20	weathered bedrock	moist	evergreen forest	mid slope
1217400	400889	7088222	1163	21-Jul-11	Lukas	50	c	grey	10	20				70	weathered bedrock	dry	alpine	mid slope
1220751	402746	7087200	1377	20-Jul-11	Sam	70	c	light grey		10		30	20	40	weathered bedrock	moist	alpine	ridge top
1220752	402697	7087184	1375	20-Jul-11	Sam	50	c	dark grey		10		10	20	60	weathered bedrock	moist	alpine	ridge top
1220753	402648	7087170	1354	20-Jul-11	Sam	55	c	light grey		70			10	20	talus	moist	alpine	mid slope
1220754	402608	7087157	1338	20-Jul-11	Sam	60	c	dark grey		60			10	30	talus	moist	buck brush	mid slope
1220755	402550	7087172	1316	20-Jul-11	Sam	55	c	light grey		50		10	10	30	talus	moist	buck brush	mid slope
1220756	402506	7087179	1305	20-Jul-11	Sam	60	c	light grey		50			20	30	talus	moist	buck brush	mid slope
1220757	402458	7087187	1286	20-Jul-11	Sam	90	c	dark grey		40		20	20	20	talus	moist	buck brush	mid slope
1220758	402406	7087187	1279	20-Jul-11	Sam	35	c	light brown		50		10	10	30	talus	moist	buck brush	mid slope
1220759	402359	7087205	1268	20-Jul-11	Sam	35	b/c	dark brown	10	50			10	30	talus	moist	buck brush	mid slope
1220760	402323	7087238	1254	20-Jul-11	Sam	50	c	dark brown		40		10	20	30	talus	moist	buck brush	mid slope
1220761	402287	7087262	1241	20-Jul-11	Sam	50	c	light brown		30		10	20	40	talus	moist	buck brush	mid slope
1220762	402249	7087298	1228	20-Jul-11	Sam	60	c	light brown		30		20	20	30	talus	moist	buck brush	mid slope
1220763	402220	7087338	1219	20-Jul-11	Sam	55	c	light brown		20		10	10	60	talus	moist	buck brush	mid slope
1220764	402186	7087380	1203	20-Jul-11	Sam	60	c	light brown		20		10	20	50	talus	moist	buck brush	mid slope
1220765	402161	7087425	1193	20-Jul-11	Sam	60	c	light brown		10		20	30	40	talus	moist	buck brush	mid slope
1220766	402141	7087468	1181	20-Jul-11	Sam	50	c	light brown		20		20	20	40	weathered bedrock	moist	buck brush	mid slope
1220767	402119	7087513	1168	20-Jul-11	Sam	60	c	light grey		30		20	10	40	weathered bedrock	moist	buck brush	mid slope
1220768	402109	7087564	1158	20-Jul-11	Sam	55	c	light brown		20		10	10	60	weathered bedrock	moist	buck brush	mid slope
1220769	402097	7087608	1149	20-Jul-11	Sam	50	c	light brown		10		20	10	60	weathered bedrock	moist	buck brush	mid slope
1220770	402094	7087660	1136	20-Jul-11	Sam	60	c	light brown		10		10	10	70	weathered bedrock	moist	buck brush	mid slope
1220771	402076	7087707	1125	20-Jul-11	Sam	50	c	light brown		10		20	20	50	weathered bedrock	moist	buck brush	mid slope
1220772	402059	7087753	1113	20-Jul-11	Sam	30	c	dark brown		30		20	10	40	talus	moist	buck brush	mid slope
1220773	402033	7087803	1099	20-Jul-11	Sam	50	c	light brown		10		20	10	60	weathered bedrock	moist	buck brush	mid slope
1220774	402009	7087844	1088	20-Jul-11	Sam	50	c	dark brown		10	10	20	20	40	talus	moist	buck brush	mid slope
1220775	401981	7087881	1080	20-Jul-11	Sam	60	c	light brown		20		10	20	50	weathered bedrock	moist	buck brush	mid slope
1220776	401947	7087922	1072	20-Jul-11	Sam	70	c	light brown					20	80	weathered bedrock	wet	buck brush	mid slope
1220777	401908	7087952	1063	20-Jul-11	Sam	50	c	light brown		10		10	10	70	weathered bedrock	moist	buck brush	ridge top
1220778	401874	7087989	1052	20-Jul-11	Sam	50	c	light brown		20		20	10	50	weathered bedrock	moist	buck brush	ridge top
1220779	401836	7088024	1037	20-Jul-11	Sam	70	c	dark grey		60		10	10	20	talus	moist	buck brush	ridge top
1220780	401801	7088050	1017	20-Jul-11	Sam	50	c	dark grey		30		20	20	30	talus	moist	buck brush	mid slope
1220781	401761	7088092	995	20-Jul-11	Sam	50	c	dark brown	10	30		10	10	40	talus	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1220782	401737	7088116	988	20-Jul-11	Sam	55	b/c	dark brown		10		10	20	60	weathered bedrock	saturated	buck brush	valley bottom
1220783	401761	7087601	1015	20-Jul-11	Sam	20	c	dark grey		20		20	20	40	talus	moist	buck brush	mid slope
1220784	401796	7087568	1031	20-Jul-11	Sam	50	c	light brown		20		10	20	50	weathered bedrock	wet	buck brush	mid slope
1220785	401732	7087622	1004	20-Jul-11	Sam	60	c	dark brown				10	20	70	weathered bedrock	wet	buck brush	mid slope
1220786	401812	7087531	1041	20-Jul-11	Sam	40	c	light brown		40		10	10	40	talus	moist	buck brush	mid slope
1220787	401793	7087486	1048	20-Jul-11	Sam	50	c	light brown	10	10			40	40	talus	moist	buck brush	mid slope
1220788	401778	7087437	1054	20-Jul-11	Sam	60	c	light brown			10	10	20	60	weathered bedrock	moist	buck brush	mid slope
1220789	401779	7087392	1068	20-Jul-11	Sam	80	c	light grey		20		20	30	30	weathered bedrock	moist	buck brush	mid slope
1220790	401810	7087351	1088	20-Jul-11	Sam	60	c	dark grey		30		20	20	30	talus	moist	buck brush	mid slope
1220791	401837	7087309	1106	20-Jul-11	Sam	50	c	light grey		30		10	10	50	weathered bedrock	moist	buck brush	mid slope
1220792	401872	7087273	1129	20-Jul-11	Sam	40	c	dark grey		40		10	10	40	talus	moist	buck brush	mid slope
1220793	401903	7087234	1150	20-Jul-11	Sam	50	c	light brown		20		10	20	50	weathered bedrock	moist	buck brush	mid slope
1220794	401938	7087199	1170	20-Jul-11	Sam	40	c	light brown		20		10	20	50	talus	moist	buck brush	mid slope
1220795	401651	7087561	1002	20-Jul-11	Sam	40	c	light brown				70	10	20	weathered bedrock	moist	buck brush	valley bottom
1220796	401625	7087548		20-Jul-11	Sam	45	c	light brown		20		20	10	50	weathered bedrock	moist	buck brush	mid slope
1220797	401588	7087521	1012	20-Jul-11	Sam	50	c	light brown		20		10	10	60	weathered bedrock	moist	buck brush	mid slope
1220798	401538	7087494	1027	20-Jul-11	Sam	55	c	dark brown		10		30	10	50	weathered bedrock	moist	buck brush	mid slope
1220799	401500	7087464	1034	20-Jul-11	Sam	60	c	dark brown		10		50	10	30	weathered bedrock	moist	buck brush	mid slope
1220800	401457	7087434	1042	20-Jul-11	Sam	50	c	dark grey		20		20	20	40	weathered bedrock	moist	buck brush	mid slope
1220801	399722	7087919	1373	21-Jul-11	Sam and Myles	35	c	dark brown		50		20		30	talus	moist	alpine	ridge top
1220802	399694	7087882	1368	21-Jul-11	Sam and Myles	40	c	dark brown		30			20	50	talus	moist	alpine	ridge top
1220803	399668	7087837	1367	21-Jul-11	Sam and Myles	30	c	dark brown		10		40		50	talus	moist	buck brush	ridge top
1220804	399643	7087805	1361	21-Jul-11	Sam and Myles	35	c	dark grey		30		40		30	talus	moist	buck brush	ridge top
1220805	399603	7087765	1355	21-Jul-11	Sam and Myles	45	c	dark brown		20		30		50	talus	moist	buck brush	ridge top
1220806	399573	7087727	1344	21-Jul-11	Sam and Myles	20	c	dark grey		30		20		50	talus	moist	buck brush	ridge top
1220807	399543	7087696	1333	21-Jul-11	Sam and Myles	30	b/c	dark brown		10		40		50	talus	moist	buck brush	ridge top
1220808	399509	7087658	1326	21-Jul-11	Sam and Myles	50	c	dark brown		20		20		60	talus	moist	buck brush	ridge top
1220809	399469	7087629	1319	21-Jul-11	Sam and Myles	45	c	light brown		10		30		60	weathered bedrock	moist	buck brush	ridge top
1220810	399436	7087580	1318	21-Jul-11	Sam and Myles	30	c	dark brown		10		20		70	talus	moist	buck brush	ridge top
1220811	399414	7087537	1316	21-Jul-11	Sam and Myles	25	c	olive grey		30		20		50	talus	moist	buck brush	ridge top
1220812	399389	7087497	1314	21-Jul-11	Sam and Myles	30	c	dark brown		10		40		50	talus	moist	buck brush	ridge top
1220813	399369	7087453	1314	21-Jul-11	Sam and Myles	35	c	olive grey		10		30		60	weathered bedrock	moist	buck brush	mid slope
1220814	399348	7087407	1313	21-Jul-11	Sam and Myles	45	c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1220815	399328	7087361	1314	21-Jul-11	Sam and Myles	40	c	light brown		25		20		55	weathered bedrock	moist	buck brush	mid slope
1220816	399316	7087313	1316	21-Jul-11	Sam and Myles	35	c	dark brown		40		20		40	weathered bedrock	moist	buck brush	mid slope
1220817	399297	7087258	1313	21-Jul-11	Sam and Myles	40	c	dark brown	10				30	60	weathered bedrock	moist	buck brush	mid slope
1220818	399288	7087214	1308	21-Jul-11	Sam and Myles	40	c	dark brown	10			20		70	weathered bedrock	moist	buck brush	mid slope
1220819	399283	7087167	1310	21-Jul-11	Sam and Myles	25	b/c	dark brown	20	30		10	10	30	weathered bedrock	moist	buck brush	mid slope
1220820	399279	7087119	1308	21-Jul-11	Sam and Myles	60	c	light brown		30		10		60	weathered bedrock	moist	buck brush	mid slope
1220821	399288	7087055	1295	21-Jul-11	Sam and Myles	30	c	dark brown		20		30		50	talus	moist	buck brush	mid slope
1220822	399289	7087019	1292	21-Jul-11	Sam and Myles	25	c	light brown		30		20		50	talus	moist	buck brush	mid slope
1220823	399280	7086969	1290	21-Jul-11	Sam and Myles	40	c	dark brown		30		30		40	weathered bedrock	moist	buck brush	mid slope
1220824	399274	7086910	1288	21-Jul-11	Sam and Myles	45	c	light brown		10		30		60	talus	moist	buck brush	mid slope
1220825	399285	7086863	1280	21-Jul-11	Sam and Myles	25	c	light brown		30				70	weathered bedrock	moist	buck brush	mid slope
1220826	399289	7086845	1276	21-Jul-11	Sam and Myles	30	c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1220827	399344	7086872	1261	21-Jul-11	Sam and Myles	45	c	dark brown	100						talus	moist	buck brush	mid slope
1220828	399383	7086910	1252	21-Jul-11	Sam and Myles	45	c	dark brown		20		30		50	weathered bedrock	moist	buck brush	mid slope
1220829	399413	7086950	1246	21-Jul-11	Sam and Myles	15	b/c	dark brown	10	10		20	20	40	talus	moist	buck brush	mid slope
1220830	399447	7086996	1241	21-Jul-11	Sam and Myles	40	c	light brown		10		20	30	50	weathered bedrock	moist	buck brush	mid slope
1220831	399512	7087085	1232	21-Jul-11	Sam and Myles	50	c	light brown				10	20	70	weathered bedrock	moist	buck brush	mid slope
1220832	399487	7087032	1239	21-Jul-11	Sam and Myles	50	c	light brown		30		10		60	weathered bedrock	dry	buck brush	mid slope
1220833	399520	7087114	1233	21-Jul-11	Sam and Myles	30	c	light brown		20			30	50	weathered bedrock	moist	buck brush	mid slope
1220834	399549	7087153	1229	21-Jul-11	Sam and Myles	30	c	dark brown			40	30		30	weathered bedrock	moist	buck brush	mid slope
1220835	399573	7087185	1227	21-Jul-11	Sam and Myles	25	c	light brown		10		10		80	weathered bedrock	moist	buck brush	mid slope
1220836	399606	7087228	1220	21-Jul-11	Sam and Myles	30	c	dark brown		20		10	10	60	weathered bedrock	moist	buck brush	mid slope
1220837	399638	7087258	1216	21-Jul-11	Sam and Myles	45	c	dark brown				50		50	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1220838	399672	7087292	1212	21-Jul-11	Sam and Myles	40	c	dark brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1220839	399718	7087324	1211	21-Jul-11	Sam and Myles	40	c	dark brown		20		20		60	weathered bedrock	moist	buck brush	mid slope
1220840	399754	7087366	1208	21-Jul-11	Sam and Myles	40	c	dark brown		30		10	20	40	weathered bedrock	moist	buck brush	mid slope
1220841	399781	7087406	1210	21-Jul-11	Sam and Myles	45	c	dark brown		20		40		40	weathered bedrock	moist	buck brush	mid slope
1220842	399832	7087436	1204	21-Jul-11	Sam and Myles	50	c	dark brown		20		20	20	40	weathered bedrock	moist	buck brush	mid slope
1220843	399862	7087468	1204	21-Jul-11	Sam and Myles	50	c	dark brown		10		20	30	40	weathered bedrock	wet	buck brush	mid slope
1220844	399922	7087499	1199	21-Jul-11	Sam and Myles	35	c	dark brown		30			40	40	weathered bedrock	moist	buck brush	mid slope
1220845	399951	7087519	1198	21-Jul-11	Sam and Myles	65	c	dark brown		100					weathered bedrock	wet	buck brush	mid slope
1220846	399990	7087523	1192	21-Jul-11	Sam and Myles	30	c	light brown		30				70	weathered bedrock	moist	buck brush	mid slope
1220847	400038	7087556	1191	21-Jul-11	Sam and Myles	15	b/c	dark brown	10	40				50	talus	moist	buck brush	mid slope
1220848	400068	7087596	1189	21-Jul-11	Sam and Myles	25	c	dark brown		30		40		30	weathered bedrock	moist	buck brush	mid slope
1220849	400109	7087626	1187	21-Jul-11	Sam and Myles	70	c	light brown		20				80	weathered bedrock	wet	buck brush	mid slope
1220850	400135	7087664	1192	21-Jul-11	Sam and Myles	25	c	dark brown	10	20		20	20	30	weathered bedrock	moist	evergreen forest	mid slope
1220851	401266	7085650	1302	23-Jul-11	Sam	100	c	light brown		20		10	10	10	weathered bedrock	moist	alpine	ridge top
1220852	401235	7085613	1295	23-Jul-11	Sam	30	c	light brown		10		10	30	50	talus	moist	buck brush	ridge top
1220853	401273	7085615	1304	23-Jul-11	Sam	55	c	light brown		30		10	20	40	talus	moist	buck brush	ridge top
1220854	401299	7085649	1318	23-Jul-11	Sam	30	c	dark brown		30			20	50	talus	moist	alpine	ridge top
1220855	401311	7085659	1322	23-Jul-11	Sam	25	c	dark brown		40		10	10	40	talus	moist	buck brush	ridge top
1220856	401308	7085641	1320	23-Jul-11	Sam	50	c	dark brown		60			10	30	talus	moist	alpine	ridge top
1220857	401326	7085653	1325	23-Jul-11	Sam	50	c	dark brown	10	20			20	50	weathered bedrock	dry	alpine	ridge top
1220858	401312	7085696	1308	23-Jul-11	Sam	35	c	dark brown		60				40	talus	moist	alpine	ridge top
1220859	401246	7085852	1222	23-Jul-11	Sam	55	c	dark brown		25			10	65	talus	moist	buck brush	ridge top
1220860	401265	7085875	1216	23-Jul-11	Sam	50	c	dark brown		20			10	70	talus	moist	buck brush	mid slope
1220861	401232	7085952	1179	23-Jul-11	Sam	55	c	light brown		20			20	60	talus	saturated	buck brush	mid slope
1220862	401189	7086095	1135	23-Jul-11	Sam	40	c	dark brown		25			25	50	weathered bedrock	wet	buck brush	valley bottom
1220863	401184	7086110	1139	23-Jul-11	Sam	70	c	dark brown	10	20			30	40	talus	moist	buck brush	valley bottom
1220864	401155	7086131	1156	23-Jul-11	Sam	50	c	dark brown		30				70	talus	dry	buck brush	mid slope
1220865	401134	7086144	1168	23-Jul-11	Sam	20	c	dark brown		80				20	talus	dry	buck brush	mid slope
1220866	401092	7086197	1204	23-Jul-11	Sam	30	c	dark brown		80				20	talus	moist	buck brush	mid slope
1220867	401107	7086226	1227	23-Jul-11	Sam	50	c	dark grey		50			10	40	talus	dry	buck brush	mid slope
1220868	401104	7086237	1231	23-Jul-11	Sam	30	c	light brown		10		10	20	60	weathered bedrock	dry	buck brush	ridge top
1220869	401363	7085755	1289	24-Jul-11	Sam	30	c	light brown		10		10	20	60	weathered bedrock	dry	buck brush	mid slope
1220870	401379	7085797	1272	24-Jul-11	Sam	45	c	dark brown		50			10	40	talus	dry	alpine	mid slope
1220871	401393	7085852	1245	24-Jul-11	Sam	40	c	light brown		30		10	10	10	talus	dry	buck brush	mid slope
1220872	401399	7085896	1222	24-Jul-11	Sam	50	c	dark brown		50			10	10	talus	moist	buck brush	mid slope
1220873	401396	7085952	1194	24-Jul-11	Sam	50	c	dark brown		60				40	talus	moist	buck brush	mid slope
1220874	401392	7086002	1170	24-Jul-11	Sam	45	c	dark brown		50				50	talus	moist	buck brush	mid slope
1220875	401387	7086047	1147	24-Jul-11	Sam	55	c	light brown		30			20	50	talus	moist	buck brush	mid slope
1220876	401410	7086081	1137	24-Jul-11	Sam	55	c	dark brown		30		10	10	50	talus	moist	buck brush	mid slope
1220877	401465	7086095	1134	24-Jul-11	Sam	50	c	light brown		20		20	10	50	weathered bedrock	moist	buck brush	mid slope
1220878	401513	7086111	1124	24-Jul-11	Sam	45	c	dark brown		25		15	20	40	talus	moist	evergreen forest	mid slope
1220879	401548	7086141	1111	24-Jul-11	Sam	50	c	dark brown		20			10	70	weathered bedrock	moist	evergreen forest	mid slope
1220880	401583	7086181	1096	24-Jul-11	Sam	80	c	dark brown				30	10	60	weathered bedrock	moist	evergreen forest	mid slope
1220881	401601	7086233	1082	24-Jul-11	Sam	45	c	dark brown		20		20	30	30	weathered bedrock	moist	evergreen forest	mid slope
1220882	401619	7086268	1074	24-Jul-11	Sam	55	c	light brown		10		10	20	60	weathered bedrock	moist	evergreen forest	mid slope
1220883	401622	7086325	1067	24-Jul-11	Sam	40	c	dark brown		20		10	10	60	weathered bedrock	moist	evergreen forest	valley bottom
1220884	401812	7085937	1085	24-Jul-11	Sam	50	c	dark grey		20		10	20	50	weathered bedrock	moist	evergreen forest	valley bottom
1220885	401800	7085918	1091	24-Jul-11	Sam	80	c	dark grey		30		20	40	10	talus	moist	evergreen forest	mid slope
1220886	401767	7085871	1108	24-Jul-11	Sam	40	c	light brown		60			10	30	talus	moist	evergreen forest	mid slope
1220887	401739	7085828	1120	24-Jul-11	Sam	45	c	dark brown		20		20	20	40	weathered bedrock	moist	evergreen forest	mid slope
1220888	401707	7085797	1130	24-Jul-11	Sam	50	c	dark grey		10		10	20	60	weathered bedrock	moist	evergreen forest	mid slope
1220889	401664	7085764	1154	24-Jul-11	Sam	80	c	dark brown		10		10	20	60	weathered bedrock	moist	evergreen forest	mid slope
1220890	401618	7085750	1176	24-Jul-11	Sam	50	c	dark brown		30		10	10	50	weathered bedrock	moist	buck brush	mid slope
1220891	401573	7085725	1200	24-Jul-11	Sam	70	c	light brown		20		20	20	40	weathered bedrock	moist	buck brush	mid slope
1220892	401538	7085706	1218	24-Jul-11	Sam	60	c	dark brown		25		15	20	40	weathered bedrock	moist	buck brush	mid slope
1220893	401491	7085689	1245	24-Jul-11	Sam	50	c	dark brown		10		10	20	60	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1220894	401431	7085676	1275	24-Jul-11	Sam	40	c	light brown		20		10	10	60	weathered bedrock	moist	buck brush	mid slope
1220895	401387	7085665	1297	24-Jul-11	Sam	30	b/c	dark brown		10		10		80	talus	moist	buck brush	mid slope
1220896	403359	7081759	1442	25-Jul-11	Sam	50	c	dark brown		20		10	20	50	weathered bedrock	moist	buck brush	mid slope
1220897	403385	7081700	1416	25-Jul-11	Sam	50	c	light brown		10		10	10	70	talus	moist	buck brush	mid slope
1220898	403468	7081632	1362	25-Jul-11	Sam	70	c	light brown		10		20	20	50	talus	moist	buck brush	mid slope
1220899	403528	7081661	1347	25-Jul-11	Sam	70	c	light brown		5		5	10	80	weathered bedrock	moist	buck brush	mid slope
1220900	403578	7081698	1346	25-Jul-11	Sam	35	c	dark brown		30		10	10	50	weathered bedrock	moist	buck brush	mid slope
1220901	403637	7081703	1317	25-Jul-11	Sam	30	c	light brown		30		10	20	40	weathered bedrock	moist	buck brush	mid slope
1220902	403703	7081784	1310	25-Jul-11	Sam	35	c	dark brown	10	30		10	10	40	talus	moist	buck brush	mid slope
1220903	403651	7081836	1348	25-Jul-11	Sam	40	c	light brown		10			10	80	weathered bedrock	moist	buck brush	mid slope
1220904	403617	7081857	1367	25-Jul-11	Sam	50	c	dark grey		10		10	20	60	weathered bedrock	moist	buck brush	mid slope
1220905	403408	7082028	1422	25-Jul-11	Sam	50	c	light brown		20		20	20	40	talus	moist	buck brush	mid slope
1221051	400885	7087038	1248	23-Jul-11	Chris	50	b/c	dark brown						100	weathered bedrock	moist	evergreen forest	mid slope
1221052	400928	7087063	1230	23-Jul-11	Chris	20	a/b	dark brown		50				50	weathered bedrock	moist	evergreen forest	mid slope
1221053	400969	7087093	1208	23-Jul-11	Chris	40	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221054	401010	7087122	1192	23-Jul-11	Chris	40	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221055	401050	7087149	1177	23-Jul-11	Chris	50	a/b	black	50					50	weathered bedrock	moist	evergreen forest	mid slope
1221056	401091	7087177	1167	23-Jul-11	Chris	50	b/c	black	20					80	weathered bedrock	moist	evergreen forest	mid slope
1221057	401130	7087207	1156	23-Jul-11	Chris	50	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221058	401173	7087235	1142	23-Jul-11	Chris	40	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221059	401215	7087263	1129	23-Jul-11	Chris	70	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221060	401257	7087290	1115	23-Jul-11	Chris	40	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221061	401294	7087321	1104	23-Jul-11	Chris	60	b/c	black		10				90	weathered bedrock	moist	evergreen forest	mid slope
1221062	401341	7087348	1090	23-Jul-11	Chris	40	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221063	401379	7087377	1076	23-Jul-11	Chris	60	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221064	401424	7087407	1062	23-Jul-11	Chris	60	b/c	black						100	weathered bedrock	moist	evergreen forest	mid slope
1221065	402732	7084620	1372	24-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	alpine	ridge top
1221066	402711	7084672	1364	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	alpine	ridge top
1221067	402692	7084713	1355	24-Jul-11	Cat and Chris	25	c	light brown		10				90	weathered bedrock	moist	alpine	mid slope
1221068	402685	7084758	1349	24-Jul-11	Cat and Chris	15	c	light brown						100	weathered bedrock	moist	alpine	mid slope
1221069	402657	7084801	1344	24-Jul-11	Cat and Chris	15	c	dark brown		10				90	weathered bedrock	moist	alpine	mid slope
1221070	402636	7084851	1335	24-Jul-11	Cat and Chris	15	c	dark brown						100	weathered bedrock	moist	alpine	mid slope
1221071	402623	7084899	1323	24-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	alpine	mid slope
1221072	402605	7084943	1316	24-Jul-11	Cat and Chris	20	b/c	dark brown						100	weathered bedrock	moist	alpine	mid slope
1221073	402587	7084996	1310	24-Jul-11	Cat and Chris	20	c	light brown						100	weathered bedrock	moist	alpine	mid slope
1221074	402569	7085038	1302	24-Jul-11	Cat and Chris	20	c	dark brown						100	weathered bedrock	moist	alpine	mid slope
1221075	404945	7080575	1474	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221076	404925	7080620	1466	25-Jul-11	Chris	30	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221077	404908	7080663	1461	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221078	404888	7080715	1453	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221079	404875	7080757	1449	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221080	404855	7080808	1444	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221081	404836	7080854	1438	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221082	404816	7080903	1431	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221083	404800	7080946	1423	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221084	404786	7080994	1417	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221085	404773	7081046	1411	25-Jul-11	Chris	40	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221086	404762	7081093	1406	25-Jul-11	Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221087	404759	7081142	1401	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221088	404756	7081191	1397	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221089	404757	7081240	1391	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221090	404760	7081291	1388	25-Jul-11	Chris	40	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221091	404756	7081341	1384	25-Jul-11	Chris	30	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221092	404749	7081389	1381	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221093	404741	7081441	1375	25-Jul-11	Chris	20	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221094	404733	7081488	1372	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221095	404712	7081532	1366	25-Jul-11	Chris	40	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221096	404687	7081581	1357	25-Jul-11	Chris	40	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221097	404668	7081627	1349	25-Jul-11	Chris	20	c	light brown						100	weathered bedrock	moist	buck brush	mid slope
1221098	404646	7081667	1339	25-Jul-11	Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221099	404623	7081712	1329	25-Jul-11	Chris	20	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221100	404599	7081761	1319	25-Jul-11	Chris	30	c	dark brown						100	weathered bedrock	moist	buck brush	mid slope
1221251	403325	7088535	1480	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221252	403278	7088529	1471	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221253	403302	7088588	1463	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221254	403325	7088642	1447	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221255	403292	7088680	1441	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221256	403255	7088594	1456	20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221257	402967	7088627		20-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221258	402924	7088652		20-Jul-11	Jason	45	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221259	402881	7088678		20-Jul-11	Jason	40	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221260	402838	7088703		20-Jul-11	Jason	40	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221261	402805	7088740		20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221262	402775	7088780		20-Jul-11	Jason	50	c	brown						x	weathered bedrock	moist	buck brush	mid slope
1221263	402745	7088819		20-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221264	402713	7088857		20-Jul-11	Jason	45	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221265	402671	7088884		20-Jul-11	Jason	45	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221266	402629	7088911		20-Jul-11	Jason	45	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221267	402589	7088938		20-Jul-11	Jason	40	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221268	402544	7088960	1284	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221269	402500	7088980	1281	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221270	402448	7089014	1272	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221271	402404	7089016		21-Jul-11	Jason	30	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221272	402362	7089007	1263	21-Jul-11	Jason	30	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221273	402308	7089001	1246	21-Jul-11	Jason	40	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221274	402259	7088992	1228	21-Jul-11	Jason	60	c	black		x				x	weathered bedrock	moist	buck brush	mid slope
1221275	402211	7088981	1211	21-Jul-11	Jason	60	c	black		x				x	weathered bedrock	moist	buck brush	mid slope
1221276	402164	7088955	1190	21-Jul-11	Jason	60	c	black		x				x	weathered bedrock	moist	buck brush	mid slope
1221277	402117	7088938	1175	21-Jul-11	Jason	40	c	black		x				x	weathered bedrock	moist	buck brush	mid slope
1221278	402070	7088921	1159	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221279	402023	7088904	1144	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221280	401980	7088887	1133	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221281	401937	7088850	1119	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221282	401900	7088826	1110	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221283	401855	7088793	1095	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221284	401814	7088763	1079	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221285	401779	7088734	1066	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221286	401739	7088700	1050	21-Jul-11	Jason	50	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221287	401701	7088668	1031	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221288	401660	7088642	1007	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221289	401620	7088611	984	21-Jul-11	Jason	60	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221290	401578	7088574	n/a	21-Jul-11	Jason	40	c	brown		x				x	weathered bedrock	moist	buck brush	mid slope
1221291	402774	7086589	1435	22-Jul-11	Jason	40	c	light brown		5				95	weathered bedrock	moist	alpine	ridge top
1221292	402778	7086530	1446	22-Jul-11	Jason	30	c	light brown				50		50	weathered bedrock	moist	alpine	ridge top
1221293	402774	7086487	1437	22-Jul-11	Jason	40	c	light brown						100	weathered bedrock	moist	buck brush	ridge top
1221294	402768	7086438	1426	22-Jul-11	Jason	50	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221295	402761	7086384		22-Jul-11	Jason	40	c	light brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221296	402758	7086334		22-Jul-11	Jason	30	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221297	402748	7086289		22-Jul-11	Jason	50	c	light brown	10	30				70	weathered bedrock	moist	buck brush	mid slope
1221298	402748	7086236		22-Jul-11	Jason	50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221299	402719	7086197		22-Jul-11	Jason	50	c	light brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221300	402691	7086158	1351	22-Jul-11	Jason	30	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221301	402644	7086140		22-Jul-11	Jason	60	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221302	402599	7086134		22-Jul-11	Jason	50	c	light brown		5				95	weathered bedrock	moist	buck brush	mid slope
1221303	402547	7086131		22-Jul-11	Jason	20	c	light brown	10	30				60	weathered bedrock	moist	buck brush	mid slope
1221304	402501	7086120		22-Jul-11	Jason	60	c	light brown	10					90	weathered bedrock	moist	buck brush	mid slope
1221305	402456	7086109	1277	22-Jul-11	Jason	30	c	light brown		30				70	weathered bedrock	moist	buck brush	mid slope
1221306	402398	7086114	1262	22-Jul-11	Jason	50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221307	402347	7086114	1249	22-Jul-11	Jason	60	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221308	402300	7086120	1237	22-Jul-11	Jason	60	c	light brown	50					50	weathered bedrock	moist	buck brush	mid slope
1221309	402250	7086108	1224	22-Jul-11	Jason	50	c	light brown	15					85	weathered bedrock	moist	buck brush	mid slope
1221310	402202	7086108	1206	22-Jul-11	Jason	60	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221311	402153	7086118	1195	22-Jul-11	Jason	50	c	light brown	10					90	weathered bedrock	moist	buck brush	mid slope
1221312	402109	7086141	1183	22-Jul-11	Jason	30	c	light brown	70					90	weathered bedrock	moist	buck brush	valley bottom
1221313	402057	7086156	1168	22-Jul-11	Jason	40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	valley bottom
1221314	402017	7086187	1158	22-Jul-11	Jason	50	c	light brown	15	20				65	weathered bedrock	moist	buck brush	valley bottom
1221315	401973	7086215	1144	22-Jul-11	Jason	60	c	light brown	10	30				60	weathered bedrock	moist	buck brush	valley bottom
1221316	401923	7086242	1126	22-Jul-11	Jason	30	c	light brown	40	20				40	weathered bedrock	moist	buck brush	valley bottom
1221318	401865	7083797	1521	23-Jul-11	Jason and Lukas	30	c	light brown	5	5				90	weathered bedrock	moist	alpine	ridge top
1221319	401853	7083845	1525	23-Jul-11	Jason and Lukas	30	a	dark grey	50	20				30	weathered bedrock	moist	alpine	ridge top
1221320	401842	7083892	1517	23-Jul-11	Jason and Lukas	30	a	dark brown	100						weathered bedrock	moist	alpine	ridge top
1221321	401821	7083946	1496	23-Jul-11	Jason and Lukas	30	a	dark brown	50	30				20	weathered bedrock	moist	alpine	ridge top
1221323	401789	7084033	1456	23-Jul-11	Jason and Lukas	30	a	light brown	30	20				50	weathered bedrock	moist	alpine	ridge top
1221324	401775	7084080	1430	23-Jul-11	Jason and Lukas	30	a	light brown	90	10					weathered bedrock	moist	alpine	mid slope
1221325	401768	7084123	1409	23-Jul-11	Jason and Lukas	30	a	light brown	70	30					weathered bedrock	moist	buck brush	mid slope
1221326	401751	7084180	1395	23-Jul-11	Jason and Lukas	30	a	dark brown	90	10					weathered bedrock	moist	buck brush	mid slope
1221327	401741	7084237	1377	23-Jul-11	Jason and Lukas	40	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221328	401726	7084268	1370	23-Jul-11	Jason and Lukas	20	a	dark brown	80	20					weathered bedrock	moist	buck brush	mid slope
1221329	401706	7084319	1358	23-Jul-11	Jason and Lukas	30	a	dark brown	40					60	weathered bedrock	moist	alpine	mid slope
1221330	401697	7084369	1341	23-Jul-11	Jason and Lukas	30	a	light brown	10	20		70			weathered bedrock	dry	buck brush	mid slope
1221332	401662	7084463	1300	23-Jul-11	Jason and Lukas	30	a	light brown	80	20					weathered bedrock	moist	alpine	mid slope
1221333	401652	7084521	1274	23-Jul-11	Jason and Lukas	30	a	light brown	60	40					weathered bedrock	moist	buck brush	mid slope
1221334	401637	7084561	1260	23-Jul-11	Jason and Lukas	50	a	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221336	401608	7084665	1261	23-Jul-11	Jason and Lukas	30	a	light brown	70	10		10		10	weathered bedrock	moist	alpine	mid slope
1221337	401603	7084730	1240	23-Jul-11	Jason and Lukas	30	c	light brown	20	20				60	weathered bedrock	moist	alpine	mid slope
1221338	401613	7084736	1214	23-Jul-11	Jason and Lukas	30	a	dark brown	90					10	weathered bedrock	moist	alpine	mid slope
1221339	401618	7084818	1196	23-Jul-11	Jason and Lukas	30	a	light brown	30	10				60	weathered bedrock	moist	buck brush	mid slope
1221340	401621	7084866	1171	23-Jul-11	Jason and Lukas	30	a	light brown	75	15				10	weathered bedrock	moist	buck brush	valley bottom
1221341	401624	7084916	1158	23-Jul-11	Jason and Lukas	30	a	light brown	20	20		20		40	weathered bedrock	moist	buck brush	valley bottom
1221342	401621	7084956	1152	23-Jul-11	Jason and Lukas	40	c	dark brown	45	10				45	weathered bedrock	moist	buck brush	valley bottom
1221343	401618	7085009	1146	23-Jul-11	Jason and Lukas	40	c	light brown	40					60	weathered bedrock	moist	evergreen forest	valley bottom
1221344	401613	7085065	1140	23-Jul-11	Jason and Lukas	50	c	light brown	10	10				80	weathered bedrock	moist	evergreen forest	valley bottom
1221345	401608	7085112		23-Jul-11	Jason and Lukas	40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	valley bottom
1221346	401615	7085150	1131	23-Jul-11	Jason and Lukas	40	c	light brown	5					95	weathered bedrock	moist	buck brush	valley bottom
1221348	402428	7084056	1502	24-Jul-11	Jason	30	c	light brown	20			20		80	weathered bedrock	moist	buck brush	ridge top
1221349	402427	7084100	1508	24-Jul-11	Jason	30	a	light brown	60	20				20	weathered bedrock	moist	buck brush	ridge top
1221350	402427	7084155	1505	24-Jul-11	Jason	30	a	light brown	40	10				50	weathered bedrock	moist	alpine	ridge top
1221351	402427	7084208	1495	24-Jul-11	Jason	20	c	dark brown	80	20					weathered bedrock	moist	alpine	ridge top
1221352	402427	7084251	1487	24-Jul-11	Jason	10	a	light brown	30	20		50			weathered bedrock	moist	alpine	ridge top
1221353	402413	7084294	1478	24-Jul-11	Jason	10	a	light brown	90	10					weathered bedrock	moist	alpine	ridge top
1221354	402399	7084351	1471	24-Jul-11	Jason	20	a	light brown	70	10		10		10	weathered bedrock	moist	alpine	ridge top
1221355	402398	7084395	1448	24-Jul-11	Jason	10	a	light brown	70	10		10		10	weathered bedrock	moist	alpine	mid slope
1221356	402382	7084446	1425	24-Jul-11	Jason	30	c	light brown	10	30				60	weathered bedrock	moist	alpine	mid slope
1221357	402370	7084491	1405	24-Jul-11	Jason	30	a	light brown	80	10				10	weathered bedrock	moist	alpine	mid slope
1221358	402350	7084546	1391	24-Jul-11	Jason	20	a	light brown	70	30					weathered bedrock	moist	buck brush	mid slope
1221359	402335	7084589	1386	24-Jul-11	Jason	30	c	light brown	10					90	weathered bedrock	moist	buck brush	mid slope
1221360	402314	7084639	1373	24-Jul-11	Jason	30	c	light brown	45	10				45	weathered bedrock	moist	buck brush	mid slope
1221361	402300	7084684	1363	24-Jul-11	Jason	20	a	light brown	90	10					weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221362	402274	7084731	1354	24-Jul-11	Jason	40	c	light brown	10	5		85			weathered bedrock	wet	buck brush	mid slope
1221363	402255	7084771	1344	24-Jul-11	Jason	50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221364	402234	7084823	1330	24-Jul-11	Jason	30	c	light brown	30	30				40	weathered bedrock	wet	buck brush	mid slope
1221365	402211	7084862	1321	24-Jul-11	Jason	40	c	light grey	10					90	weathered bedrock	wet	buck brush	mid slope
1221366	402192	7084910	1310	24-Jul-11	Jason	50	c	greenish grey		5				95	weathered bedrock	wet	buck brush	mid slope
1221367	402161	7084942	1300	24-Jul-11	Jason	50	c	greenish grey	5					95	weathered bedrock	moist	buck brush	mid slope
1221368	402127	7084984	1286	24-Jul-11	Jason	60	c	light brown	30					70	weathered bedrock	moist	buck brush	mid slope
1221369	402090	7085015	1269	24-Jul-11	Jason	40	c	dark brown	80	10				10	weathered bedrock	moist	buck brush	mid slope
1221370	402053	7085054	1249	24-Jul-11	Jason	30	c	dark brown	45	10				45	weathered bedrock	moist	buck brush	mid slope
1221371	402010	7085087	1229	24-Jul-11	Jason	30	c	light brown	10	30				60	weathered bedrock	moist	evergreen forest	mid slope
1221372	401978	7085117	1215	24-Jul-11	Jason	30	a	light brown	90	10					weathered bedrock	moist	evergreen forest	mid slope
1221373	401937	7085154	1210	24-Jul-11	Jason	30	c	dark brown	20					80	weathered bedrock	moist	evergreen forest	mid slope
1221374	401911	7085199	1189	24-Jul-11	Jason	50	c	dark brown	50					50	weathered bedrock	moist	evergreen forest	mid slope
1221375	401879	7085236	1173	24-Jul-11	Jason	40	c	dark brown		10				90	weathered bedrock	moist	evergreen forest	mid slope
1221376	401850	7085281	1156	24-Jul-11	Jason	30	c	dark brown	60					40	weathered bedrock	moist	evergreen forest	mid slope
1221377	401839	7085320	1143	24-Jul-11	Jason	30	c	dark brown	40					60	weathered bedrock	moist	evergreen forest	mid slope
1221378	401844	7085369	1134	24-Jul-11	Jason	20	c	dark brown	70					30	weathered bedrock	wet	evergreen forest	mid slope
1221379	401842	7085406	1124	24-Jul-11	Jason	20	a	dark brown	100						weathered bedrock	moist	evergreen forest	mid slope
1221380	403031	7081686	1457	25-Jul-11	Jason	20	a	light brown	50					50	weathered bedrock	moist	buck brush	ridge top
1221381	403029	7081733	1459	25-Jul-11	Jason	40	c	light brown		10				90	weathered bedrock	moist	buck brush	ridge top
1221382	403025	7081783	1460	25-Jul-11	Jason	40	c	light brown		15				85	weathered bedrock	moist	buck brush	ridge top
1221383	403028	7081831	1457	25-Jul-11	Jason	40	c	light brown		10				90	weathered bedrock	moist	buck brush	ridge top
1221384	403025	7081883	1452	25-Jul-11	Jason	40	c	light brown		5				95	weathered bedrock	moist	buck brush	ridge top
1221385	403021	7081928	1443	25-Jul-11	Jason	30	a	light brown		20				80	weathered bedrock	moist	buck brush	ridge top
1221386	403022	7081980	1427	25-Jul-11	Jason	40	c	light brown	10	20		40		30	weathered bedrock	moist	buck brush	ridge top
1221387	403017	7082032	1408	25-Jul-11	Jason	40	c	light brown	10	15				75	weathered bedrock	moist	buck brush	mid slope
1221388	403021	7082089	1385	25-Jul-11	Jason	40	a	light brown	90	5		5			weathered bedrock	moist	buck brush	mid slope
1221389	403018	7082133	1374	25-Jul-11	Jason	40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221390	403021	7082184	1360	25-Jul-11	Jason	40	c	light brown	5	10				85	weathered bedrock	moist	buck brush	mid slope
1221391	403014	7082236	1342	25-Jul-11	Jason	40	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221392	403013	7082283	1326	25-Jul-11	Jason	40	c	dark brown	10	50				40	weathered bedrock	moist	buck brush	mid slope
1221393	403017	7082331	1311	25-Jul-11	Jason	20	c	light brown	20	5				75	weathered bedrock	moist	buck brush	mid slope
1221394	403011	7082387	1294	25-Jul-11	Jason	40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221395	403007	7082433	1281	25-Jul-11	Jason	40	c	light brown	30	20				50	weathered bedrock	moist	buck brush	mid slope
1221396	403005	7082485	1266	25-Jul-11	Jason	40	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221397	403003	7082535	1252	25-Jul-11	Jason	40	a	dark brown	85	10				5	weathered bedrock	moist	buck brush	mid slope
1221398	403004	7082582	1241	25-Jul-11	Jason	30	c	dark brown	45	10				45	weathered bedrock	moist	buck brush	mid slope
1221399	403003	7082638	1225	25-Jul-11	Jason	20	a	dark brown	50	5				45	weathered bedrock	moist	buck brush	mid slope
1221400	403005	7082685	1212	25-Jul-11	Jason	30	a	dark brown	50	5				45	weathered bedrock	moist	buck brush	mid slope
1221401	402995	7082737	1153	25-Jul-11	Jason	20	a	dark brown	45	15				40	weathered bedrock	moist	buck brush	mid slope
1221402	403000	7082780	1186	25-Jul-11	Jason	20	c	light brown	15	10				75	weathered bedrock	moist	buck brush	mid slope
1221403	402995	7082832	1173	25-Jul-11	Jason	30	c	light brown	45	10				45	weathered bedrock	moist	buck brush	mid slope
1221404	402991	7082881	1163	25-Jul-11	Jason	40	c	dark brown	15	10				75	weathered bedrock	moist	buck brush	mid slope
1221405	402986	7082929	1154	25-Jul-11	Jason	40	c	dark brown	15	10				75	weathered bedrock	moist	buck brush	valley bottom
1221406	402990	7082945	1151	25-Jul-11	Jason	40	c	light brown	5	10				75	weathered bedrock	moist	buck brush	valley bottom
1221501	402975	7087647	1334	20-Jul-11	Chris and Myles	20	c	dk brown		30				70	weathered bedrock	moist	alpine	ridge top
1221502	402930	7087666	1326	20-Jul-11	Chris and Myles	25	b/c	light brown				40		60	weathered bedrock	moist	alpine	ridge top
1221503	402883	7087686	1316	20-Jul-11	Chris and Myles	30	b/c	l. grey		40				60	weathered bedrock	moist	buck brush	ridge top
1221504	402840	7087709	1305	20-Jul-11	Chris and Myles	15	b/c	l. grey		40				60	weathered bedrock	moist	buck brush	mid slope
1221505	402799	7087740	1285	20-Jul-11	Chris and Myles	40	c	dk brown				40		60	weathered bedrock	moist	buck brush	mid slope
1221506	402758	7087770	1273	20-Jul-11	Chris and Myles	30	c	dk grey			40			60	weathered bedrock	moist	buck brush	mid slope
1221507	402721	7087801	1260	20-Jul-11	Chris and Myles	20	b/c	dk grey		50				50	weathered bedrock	moist	buck brush	mid slope
1221508	402683	7087833	1248	20-Jul-11	Chris and Myles	20	b/c	l grey		60				40	weathered bedrock	moist	buck brush	mid slope
1221509	402645	7087867	1236	20-Jul-11	Chris and Myles	35	c	dk grey						x	weathered bedrock	moist	buck brush	mid slope
1221510	402605	7087896	1228	20-Jul-11	Chris and Myles	35	c	l brown						x	weathered bedrock	moist	buck brush	mid slope
1221511	402567	7087931	1222	20-Jul-11	Chris and Myles	10-20	c	l brown						x	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221512	402526	7087955	1211	20-Jul-11	Chris and Myles	10-20	c	dk brown						x	weathered bedrock	moist	buck brush	mid slope
1221513	402483	7087983	1202	20-Jul-11	Chris and Myles	10-20	b/c	dk brown		40				60	weathered bedrock	moist	buck brush	mid slope
1221514	402439	7088005	1195	20-Jul-11	Chris and Myles	10-20	c	dk grey						x	weathered bedrock	moist	buck brush	mid slope
1221515	402400	7088034	1188	20-Jul-11	Chris and Myles	10	c	dk brown						x	weathered bedrock	moist	buck brush	mid slope
1221516	402359	7088068	1168	20-Jul-11	Chris and Myles	20-30	b/c	dk grey						x	weathered bedrock	moist	buck brush	mid slope
1221517	402323	7088105	1151	20-Jul-11	Chris and Myles	20-30	c	dk brown						x	weathered bedrock	moist	buck brush	mid slope
1221518	402287	7088135	1140	20-Jul-11	Chris and Myles	20-30	c	dk brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221519	402250	7088171	1133	20-Jul-11	Chris and Myles	10-20	c	dk grey		50				50	weathered bedrock	moist	buck brush	mid slope
1221520	402219	7088209	1118	20-Jul-11	Chris and Myles	10-20	c	dk grey		50				50	weathered bedrock	moist	buck brush	mid slope
1221521	402180	7088242	1106	20-Jul-11	Chris and Myles	20-30	c	dk grey		50				50	weathered bedrock	moist	buck brush	mid slope
1221522	402137	7088265	1092	20-Jul-11	Chris and Myles	20-30	c	dk brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221523	402096	7088290	1081	20-Jul-11	Chris and Myles	30-40	c	dk brown				50		50	weathered bedrock	moist	buck brush	mid slope
1221524	402042	7088303	1073	20-Jul-11	Chris and Myles	40-50	c	dk brown		50				50	weathered bedrock	moist	buck brush	mid slope
1221525	401995	7088316	1063	20-Jul-11	Chris and Myles	30-40	c	l brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221526	401945	7088326	1053	20-Jul-11	Chris and Myles	30-40	c	l brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221527	401902	7088335	1047	20-Jul-11	Chris and Myles	50-60	c	l brown				40		60	weathered bedrock	moist	buck brush	mid slope
1221528	401848	7088346	1041	20-Jul-11	Chris and Myles	30	c	dk brown				40		60	weathered bedrock	moist	buck brush	mid slope
1221529	401803	7088364	1033	20-Jul-11	Chris and Myles	35	c	l brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221530	401759	7088386	1007	20-Jul-11	Chris and Myles	10-20	b/c	l. brown		40				60	weathered bedrock	moist	buck brush	mid slope
1221531	401713	7088409	986	20-Jul-11	Chris and Myles	60-70	b/c	dk brown				40		60	weathered bedrock	moist	buck brush	mid slope
1221532	401674	7088431	975	20-Jul-11	Chris and Myles	20-30	c	dk brown		20				80	weathered bedrock	moist	buck brush	valley bottom
1221533	401622	7088455	966	20-Jul-11	Chris and Myles	20-30	c	dk brown		20				80	weathered bedrock	moist	buck brush	valley bottom
1221534	402768	7084521	1386	24-Jul-11	Cat and Chris	20	c	dark brown		5				95	weathered bedrock	moist	alpine	ridge top
1221535	402756	7084569	1380	24-Jul-11	Cat and Chris	10	c	light brown		10				90	weathered bedrock	moist	alpine	ridge top
1221536	400356	7086714	1413	22-Jul-11	Myles	25	b/c	light brown		50		30		20	weathered bedrock	dry	alpine	ridge top
1221537	400369	7086762	1399	22-Jul-11	Myles	35	c	dark brown		40		30		30	weathered bedrock	dry	buck brush	mid slope
1221538	400375	7086815	1380	22-Jul-11	Myles	30	b/c	dark brown	10	30				60	talus	moist	alpine	mid slope
1221539	400389	7086857	1365	22-Jul-11	Myles	40	b/c	dark brown	10	40				50	talus	moist	buck brush	mid slope
1221540	400406	7086905	1340	22-Jul-11	Myles	25	b/c	dark brown	10	40				50	talus	dry	buck brush	mid slope
1221541	400415	7086957	1317	22-Jul-11	Myles	30	c	dark brown	10	20		40		30	weathered bedrock	moist	evergreen forest	mid slope
1221542	400421	7087008	1307	22-Jul-11	Myles	40	c	light brown		30		50		20	weathered bedrock	moist	evergreen forest	mid slope
1221543	400423	7087058	1294	22-Jul-11	Myles	30	b/c	dark brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221544	400425	7087107	1282	22-Jul-11	Myles	40	c	light brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221545	400427	7087154	1272	22-Jul-11	Myles	50	c	light brown		30		40		30	weathered bedrock	moist	buck brush	mid slope
1221546	400430	7087204	1260	22-Jul-11	Myles	45	c	light brown		30		30		40	weathered bedrock	moist	evergreen forest	mid slope
1221547	400429	7087256	1246	22-Jul-11	Myles	30	c	light brown		40		20		40	weathered bedrock	moist	evergreen forest	mid slope
1221548	400423	7087304	1230	22-Jul-11	Myles	45	c	light brown		50				50	weathered bedrock	moist	evergreen forest	mid slope
1221549	400415	7087354	1216	22-Jul-11	Myles	35	b/c	light brown		20		30		50	weathered bedrock	moist	evergreen forest	mid slope
1221550	400385	7087386	1200	22-Jul-11	Myles	35	c	dark brown		40		30		30	weathered bedrock	moist	evergreen forest	mid slope
1221551	400342	7087412	1191	22-Jul-11	Myles	30	c	light brown		30		30		40	weathered bedrock	moist	evergreen forest	mid slope
1221552	400295	7087432	1184	22-Jul-11	Myles	75	b/c	olive grey	10	20				70	weathered bedrock	wet	evergreen forest	mid slope
1221553	400246	7087423	1187	22-Jul-11	Myles	40	c	light brown		25	25			50	weathered bedrock	wet	evergreen forest	mid slope
1221554	400194	7087422	1193	22-Jul-11	Myles	45	c	light brown		30		40		30	weathered bedrock	moist	evergreen forest	mid slope
1221555	400142	7087414	1202	22-Jul-11	Myles	40	b/c	light brown		20		20		60	weathered bedrock	wet	evergreen forest	mid slope
1221556	400174	7087693	1181	22-Jul-11	Myles	30	c	dark brown		40			40	20	weathered bedrock	moist	evergreen forest	mid slope
1221557	400223	7087708	1168	22-Jul-11	Myles	45	b/c	dark grey			30	40		30	weathered bedrock	moist	evergreen forest	mid slope
1221558	400268	7087727	1158	22-Jul-11	Myles	55	c	light grey		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221559	400315	7087744	1153	22-Jul-11	Myles	40	c	light brown		35		15		50	weathered bedrock	moist	evergreen forest	mid slope
1221560	400364	7087756	1144	22-Jul-11	Myles	45	c	light brown			25	25		50	weathered bedrock	moist	evergreen forest	mid slope
1221561	400412	7087772	1146	22-Jul-11	Myles	25	c	light brown		10		30		60	weathered bedrock	moist	evergreen forest	mid slope
1221562	400458	7087790	1140	22-Jul-11	Myles	55	b/c	light brown		25		25		50	weathered bedrock	saturated	evergreen forest	mid slope
1221563	400499	7087813	1141	22-Jul-11	Myles	20	b/c	light brown			25	40		35	talus	moist	deciduous forest	mid slope
1221564	400556	7087822	1128	22-Jul-11	Myles	80	b/c	light grey	10	10				80	weathered bedrock	wet	evergreen forest	mid slope
1221565	400605	7087810	1120	22-Jul-11	Myles	40	c	dark brown			40	20		40	weathered bedrock	moist	evergreen forest	mid slope
1221566	400656	7087810	1116	22-Jul-11	Myles	40	c	light brown		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221567	400711	7087801	1112	22-Jul-11	Myles	55	c	dark grey		30		30		40	weathered bedrock	moist	evergreen forest	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221568	400749	7087805	1115	22-Jul-11	Myles	75	c	dark grey		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221569	400806	7087804	1114	22-Jul-11	Myles	50	c	dark grey		40		10		60	weathered bedrock	moist	evergreen forest	mid slope
1221570	400855	7087805	1115	22-Jul-11	Myles	50	c	dark grey			30	10		60	weathered bedrock	moist	evergreen forest	mid slope
1221571	400907	7087797	1118	22-Jul-11	Myles	40	c	dark grey		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221572	400953	7087793	1112	22-Jul-11	Myles	40	b/c	dark grey	10	30		10		50	weathered bedrock	moist	evergreen forest	mid slope
1221573	401002	7087785	1112	22-Jul-11	Myles	50	b/c	dark grey	10	25				65	weathered bedrock	dry	evergreen forest	mid slope
1221574	401056	7087777	1111	22-Jul-11	Myles	40	c	light brown		30		20		50	weathered bedrock	moist	evergreen forest	mid slope
1221575	401103	7087772	1114	22-Jul-11	Myles	40	c	light grey		25		25		50	weathered bedrock	wet	evergreen forest	mid slope
1221576	401150	7087760	1111	22-Jul-11	Myles	40	c	light grey				40		60	weathered bedrock	moist	evergreen forest	mid slope
1221577	400409	7086607	1386	23-Jul-11	Myles	45	c	dark brown		40		10		50	weathered bedrock	dry	buck brush	mid slope
1221578	400459	7086601	1386	23-Jul-11	Myles	30	c	light brown		10		40		50	weathered bedrock	moist	buck brush	mid slope
1221579	400511	7086597	1380	23-Jul-11	Myles	45	c	dark brown		10		20		70	weathered bedrock	moist	buck brush	mid slope
1221580	400562	7086593	1368	23-Jul-11	Myles	25	c	dark brown				40		60	weathered bedrock	moist	buck brush	mid slope
1221581	400610	7086592	1353	23-Jul-11	Myles	35	b/c	dark brown		25		25		50	weathered bedrock	moist	buck brush	mid slope
1221582	400667	7086594	1337	23-Jul-11	Myles	35	b/c	light brown		25		25		50	weathered bedrock	moist	buck brush	mid slope
1221583	400710	7086589	1325	23-Jul-11	Myles	40	c	light brown		20		20		60	weathered bedrock	moist	buck brush	mid slope
1221584	400760	7086594	1313	23-Jul-11	Myles	35	c	light brown		25		25		50	weathered bedrock	moist	buck brush	mid slope
1221585	400809	7086594	1299	23-Jul-11	Myles	45	c	light brown		20		20		60	weathered bedrock	moist	buck brush	mid slope
1221586	400858	7086605	1285	23-Jul-11	Myles	40	c	dark brown				30		70	weathered bedrock	moist	buck brush	mid slope
1221587	400907	7086612	1270	23-Jul-11	Myles	45	c	light brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221588	400958	7086611	1253	23-Jul-11	Myles	30	b/c	dark brown		20		20		60	weathered bedrock	moist	buck brush	mid slope
1221589	401009	7086612	1238	23-Jul-11	Myles	25	b/c	light brown		20				80	weathered bedrock	wet	buck brush	mid slope
1221590	401059	7086606	1224	23-Jul-11	Myles	35	b/c	light brown		30		10		60	weathered bedrock	moist	buck brush	mid slope
1221591	401100	7086586	1213	23-Jul-11	Myles	30	b/c	dark brown		10		20		70	weathered bedrock	moist	buck brush	mid slope
1221592	401145	7086560	1197	23-Jul-11	Myles	35	c	dark brown		25		25		50	weathered bedrock	moist	buck brush	mid slope
1221593	401177	7086530	1188	23-Jul-11	Myles	50	b/c	dark brown				20		80	weathered bedrock	moist	buck brush	mid slope
1221594	401185	7086483	1184	23-Jul-11	Myles	50	b/c	light brown		10		20		70	weathered bedrock	moist	evergreen forest	mid slope
1221595	401199	7086432	1185	23-Jul-11	Myles	50	c	light brown		25		25		50	weathered bedrock	moist	evergreen forest	mid slope
1221596	401205	7086383	1187	23-Jul-11	Myles	60	c	light brown		10		40		50	weathered bedrock	moist	buck brush	mid slope
1221597	401207	7086334	1183	23-Jul-11	Myles	30	c	light brown		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221598	401211	7086280	1194	23-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221599	401214	7086234	1196	23-Jul-11	Myles	15	b/c	dark brown		20		20		60	weathered bedrock	moist	buck brush	mid slope
1221600	401216	7086189	1184	23-Jul-11	Myles	20	b/c	light brown		25		25		50	weathered bedrock	moist	buck brush	mid slope
1221601	401261	7086180	1159	23-Jul-11	Myles	20	b/c	dark brown		40				60	weathered bedrock	moist	buck brush	mid slope
1221602	401315	7086185	1134	23-Jul-11	Myles	20	b/c	light brown		20		10		70	talus	moist	evergreen forest	mid slope
1221603	401359	7086202	1120	23-Jul-11	Myles	30	c	light brown		20		10		70	weathered bedrock	moist	deciduous forest	mid slope
1221604	401401	7086233	1110	23-Jul-11	Myles	30	c	light brown		30				70	weathered bedrock	dry	evergreen forest	mid slope
1221605	401446	7086260	1094	23-Jul-11	Myles	40	c	dark grey		40				60	weathered bedrock	moist	evergreen forest	mid slope
1221606	401476	7086294	1087	23-Jul-11	Myles	40	c	light brown		30		40		30	weathered bedrock	moist	evergreen forest	mid slope
1221607	401506	7086334	1078	23-Jul-11	Myles	30	c	light brown		40		20		40	weathered bedrock	moist	evergreen forest	mid slope
1221608	401528	7086373	1072	23-Jul-11	Myles	30	b/c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221609	401568	7086412	1065	23-Jul-11	Myles	35	c	light brown			40	20		40	weathered bedrock	moist	evergreen forest	mid slope
1221610	401605	7086445	1056	23-Jul-11	Myles	45	c	light brown		30				70	weathered bedrock	moist	buck brush	mid slope
1221612	403497	7080139	1499	25-Jul-11	Myles	25	b/c	light brown		25		25		50	talus	dry	buck brush	mid slope
1221613	403523	7080180	1489	25-Jul-11	Myles	15	b/c	light brown	10	20		20		50	talus	moist	buck brush	mid slope
1221614	403557	7080223	1478	25-Jul-11	Myles	20	b/c	light brown	10	10		30		50	talus	dry	buck brush	mid slope
1221615	403583	7080261	1472	25-Jul-11	Myles	30	c	light brown				40		60	talus	dry	buck brush	mid slope
1221616	403613	7080303	1467	25-Jul-11	Myles	20	b/c	light brown	20			20		60	talus	dry	buck brush	mid slope
1221617	403640	7080344	1460	25-Jul-11	Myles	30	c	light brown				40		60	talus	dry	buck brush	mid slope
1221618	403668	7080386	1452	25-Jul-11	Myles	30	c	light brown		20		20		60	talus	dry	buck brush	mid slope
1221619	403698	7080424	1449	25-Jul-11	Myles	40	c	light brown		20		20		60	talus	dry	buck brush	mid slope
1221620	403731	7080460	1442	25-Jul-11	Myles	25	b/c	light brown				20		80	weathered bedrock	dry	buck brush	mid slope
1221621	403760	7080507	1436	25-Jul-11	Myles	40	c	dark brown		25			25	50	weathered bedrock	moist	buck brush	mid slope
1221622	403790	7080546	1424	25-Jul-11	Myles	45	c	dark brown				30		70	weathered bedrock	dry	buck brush	mid slope
1221623	403816	7080585	1412	25-Jul-11	Myles	30	b/c	dark brown		20		20		60	weathered bedrock	dry	buck brush	mid slope
1221624	403844	7080626	1400	25-Jul-11	Myles	25	b/c	light brown		20		20		60	weathered bedrock	moist	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221625	403876	7080666	1394	25-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221626	403904	7080706	1386	25-Jul-11	Myles	50	c	light brown		20		10		70	weathered bedrock	dry	buck brush	mid slope
1221627	403935	7080751	1380	25-Jul-11	Myles	50	c	light brown		10		20		70	weathered bedrock	dry	buck brush	mid slope
1221628	403958	7080790	1375	25-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	dry	buck brush	mid slope
1221629	403991	7080828	1370	25-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221630	404017	7080872	1362	25-Jul-11	Myles	50	c	light brown		10		20		70	weathered bedrock	moist	buck brush	mid slope
1221631	404045	7080913	1354	25-Jul-11	Myles	50	c	light brown		10		30		60	weathered bedrock	moist	buck brush	mid slope
1221632	404075	7080952	1343	25-Jul-11	Myles	60	c	light brown		10		10		80	weathered bedrock	wet	buck brush	mid slope
1221633	404088	7080999	1332	25-Jul-11	Myles	40	c	light brown		10		10	10	70	weathered bedrock	dry	buck brush	mid slope
1221634	404090	7081050	1324	25-Jul-11	Myles	25	b/c	light brown	10	10				80	talus	dry	buck brush	mid slope
1221635	404088	7081100	1312	25-Jul-11	Myles	30	b/c	dark brown	10	10		30		50	talus	moist	buck brush	mid slope
1221636	404092	7081149	1302	25-Jul-11	Myles	45	c	light brown		20		30		50	talus	moist	buck brush	mid slope
1221637	404098	7081199	1289	25-Jul-11	Myles	45	c	light brown		10		40		50	weathered bedrock	moist	buck brush	mid slope
1221638	404098	7081250	1276	25-Jul-11	Myles	2	c	light brown		10		40		50	weathered bedrock	moist	buck brush	mid slope
1221639	404101	7081299	1262	25-Jul-11	Myles	30	b/c	light brown		10		20		70	weathered bedrock	dry	evergreen forest	mid slope
1221640	404101	7081350	1247	25-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	moist	evergreen forest	mid slope
1221641	404105	7081399	1235	25-Jul-11	Myles	50	c	dark brown		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221642	404108	7081448	1224	25-Jul-11	Myles	40	c	light brown		10		30		60	weathered bedrock	dry	evergreen forest	mid slope
1221643	404108	7081498	1211	25-Jul-11	Myles	40	c	dark brown		20		20		60	weathered bedrock	moist	evergreen forest	mid slope
1221644	404108	7081553	1204	25-Jul-11	Myles	40	c	olive grey		20		20		60	weathered bedrock	moist	buck brush	valley bottom
1221645	404128	7081599	1204	25-Jul-11	Myles	20	b/c	dark brown	10	10				80	weathered bedrock	moist	evergreen forest	mid slope
1221646	404114	7081649	1200	25-Jul-11	Myles	35	c	light brown				40		60	talus	moist	buck brush	mid slope
1221647	404117	7081669	1205	25-Jul-11	Myles	25	b/c	light brown		20		20		60	talus	moist	buck brush	mid slope
1221851	400942	7088219	1159	21-Jul-11	Lukas	70	a	dark brown	50	50					weathered bedrock	dry	alpine	mid slope
1221852	400988	7088201	1160	21-Jul-11	Lukas	60	a	dark brown	40	60					weathered bedrock	dry	alpine	mid slope
1221853	401030	7088210	1156	21-Jul-11	Lukas	60	a	dark brown	60	40					weathered bedrock	moist	buck brush	mid slope
1221854	401092	7088204	1160	21-Jul-11	Lukas	50	c	dark brown	40	50				10	weathered bedrock	dry	alpine	mid slope
1221855	401126	7088241	1151	21-Jul-11	Lukas	40	a	dark brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221856	401162	7088276	1137	21-Jul-11	Lukas	40	c	dark brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221857	401148	7088327	1130	21-Jul-11	Lukas	40	c	dark grey	10	10				80	weathered bedrock	wet	buck brush	mid slope
1221858	401143	7088381	1121	21-Jul-11	Lukas	40	c	dark grey		30				70	weathered bedrock	moist	buck brush	mid slope
1221859	401140	7088417	1113	21-Jul-11	Lukas	60	c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221860	401150	7088469	1098	21-Jul-11	Lukas	50	c	light brown	40	60					weathered bedrock	dry	buck brush	mid slope
1221861	401141	7088531	1082	21-Jul-11	Lukas	50	a	light brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221862	401140	7088578	1070	21-Jul-11	Lukas	50	c	dark grey	70	10				20	weathered bedrock	moist	buck brush	mid slope
1221863	401134	7088631	1055	21-Jul-11	Lukas	50	a	dark brown	90	10					weathered bedrock	moist	buck brush	mid slope
1221864	401133	7088666	1047	21-Jul-11	Lukas	50	a	dark brown	50	30				20	weathered bedrock	moist	buck brush	mid slope
1221865	401140	7088721	1037	21-Jul-11	Lukas	50	c	dark brown	20	20				60	weathered bedrock	moist	buck brush	mid slope
1221866	401153	7088766	1029	21-Jul-11	Lukas	50	c	grey	20	10				70	weathered bedrock	wet	buck brush	mid slope
1221867	401160	7088811	1020	21-Jul-11	Lukas	50	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221868	401168	7088868	1013	21-Jul-11	Lukas	50	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221869	401188	7088902	1002	21-Jul-11	Lukas	40	c	light brown	30	50				20	weathered bedrock	dry	evergreen forest	valley bottom
1221870	402809	7086158	1364	22-Jul-11	Lukas	40	c	light brown		10		40		50	weathered bedrock	moist	buck brush	mid slope
1221871	402832	7086131	1354	22-Jul-11	Lukas	50	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221872	402860	7086088	1345	22-Jul-11	Lukas	50	c	light grey		10				90	weathered bedrock	moist	buck brush	mid slope
1221873	402879	7086039	1332	22-Jul-11	Lukas	30	c	light brown	10			10		80	weathered bedrock	moist	buck brush	mid slope
1221874	402883	7085978	1315	22-Jul-11	Lukas	40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221875	402893	7085933	1308	22-Jul-11	Lukas	30	c	light brown	5	20				75	weathered bedrock	moist	buck brush	mid slope
1221876	402891	7085884	1296	22-Jul-11	Lukas	30	c	light brown		30		20		50	weathered bedrock	moist	buck brush	mid slope
1221877	402894	7085841	1290	22-Jul-11	Lukas	40	c	light brown	30					70	weathered bedrock	moist	buck brush	mid slope
1221878	402888	7085789	1281	22-Jul-11	Lukas	40	c	light brown		20				80	weathered bedrock	moist	buck brush	mid slope
1221879	402900	7085737	1273	22-Jul-11	Lukas	40	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221880	402904	7085688	1268	22-Jul-11	Lukas	40	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221881	402909	7085640	1262	22-Jul-11	Lukas	40	c	light brown		10				90	weathered bedrock	moist	buck brush	mid slope
1221882	402912	7085593	1257	22-Jul-11	Lukas	40	c	light brown		5				95	weathered bedrock	moist	buck brush	valley bottom
1221883	402919	7085538	1249	22-Jul-11	Lukas	50	c	light brown		5				95	weathered bedrock	moist	buck brush	valley bottom

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221884	402915	7085491	1249	22-Jul-11	Lukas	50	c	light brown	5					95	weathered bedrock	moist	buck brush	valley bottom
1221885	402923	7085442	1250	22-Jul-11	Lukas	40	c	light brown	5	5				95	weathered bedrock	moist	buck brush	valley bottom
1221886	402928	7085397	1252	22-Jul-11	Lukas	40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	valley bottom
1221887	402925	7085341	1255	22-Jul-11	Lukas	40	c	light brown	10	5				85	weathered bedrock	moist	buck brush	valley bottom
1221888	402938	7085285	1260	22-Jul-11	Lukas	40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	valley bottom
1221889	402945	7085244	1265	22-Jul-11	Lukas	50	c	light grey		10				90	weathered bedrock	moist	buck brush	valley bottom
1221890	403409	7081873	1437	24-Jul-11	Lukas	30	c	light brown	10	10				80	weathered bedrock	moist	alpine	ridge top
1221891	403428	7081925	1427	24-Jul-11	Lukas	30	c	light brown	20	10				70	weathered bedrock	moist	alpine	ridge top
1221892	403457	7081965	1417	24-Jul-11	Lukas	30	c	dark brown	80	20					weathered bedrock	moist	alpine	ridge top
1221893	403494	7082002	1408	24-Jul-11	Lukas	30	c	light brown	10	20				70	weathered bedrock	moist	alpine	ridge top
1221894	403515	7082048	1397	24-Jul-11	Lukas	30	c	light brown		10				90	weathered bedrock	part. frozen	alpine	ridge top
1221895	403536	7082089	1388	24-Jul-11	Lukas	40	c	light brown	5	10				85	weathered bedrock	part. frozen	alpine	ridge top
1221896	403564	7082127	1374	24-Jul-11	Lukas	40	c	dark brown	10	20				70	weathered bedrock	moist	alpine	mid slope
1221897	403599	7082178	1354	24-Jul-11	Lukas	40	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221898	403620	7082214	1345	24-Jul-11	Lukas	40	c	light brown	5	5				90	weathered bedrock	part. frozen	buck brush	mid slope
1221899	403651	7082259	1336	24-Jul-11	Lukas	40	c	light brown	40	10				50	weathered bedrock	moist	buck brush	mid slope
1221900	403686	7082294	1323	24-Jul-11	Lukas	50	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221901	403702	7082335	1307	24-Jul-11	Lukas	30	a	dark brown	80	20					weathered bedrock	moist	buck brush	mid slope
1221902	403730	7082380	1298	24-Jul-11	Lukas	30	a	dark brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221903	403755	7082420	1288	24-Jul-11	Lukas	30	a	dark brown	70	30					weathered bedrock	moist	buck brush	mid slope
1221904	403795	7082457	1278	24-Jul-11	Lukas	50	c	light brown	10	20		40		30	weathered bedrock	moist	buck brush	mid slope
1221905	403819	7082493	1267	24-Jul-11	Lukas	30	c	light brown		10				90	weathered bedrock	part. frozen	buck brush	mid slope
1221906	403845	7082541	1255	24-Jul-11	Lukas	40	c	dark brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221907	403872	7082578	1243	24-Jul-11	Lukas	40	c	light brown	10			60		30	weathered bedrock	moist	buck brush	mid slope
1221908	403904	7082631	1228	24-Jul-11	Lukas	40	c	light brown	10			30		60	weathered bedrock	moist	buck brush	mid slope
1221909	403943	7082664	1215	24-Jul-11	Lukas	30	a	dark brown	100						weathered bedrock	moist	buck brush	mid slope
1221910	403964	7082717	1203	24-Jul-11	Lukas	50	c	light brown		10				90	weathered bedrock	part. frozen	buck brush	mid slope
1221911	403988	7082746	1190	24-Jul-11	Lukas	40	c	light brown	20	10				20	weathered bedrock	moist	buck brush	mid slope
1221912	404013	7082796	1174	24-Jul-11	Lukas	50	c	light brown	30					70	weathered bedrock	moist	buck brush	mid slope
1221913	404044	7082837	1158	24-Jul-11	Lukas	40	c	light brown	20	10				70	weathered bedrock	moist	evergreen forest	mid slope
1221914	404065	7082873	1149	24-Jul-11	Lukas	40	c	light brown	20	10				70	weathered bedrock	moist	evergreen forest	valley bottom
1221915	404097	7082924	1138	24-Jul-11	Lukas	40	c	light brown	10					90	weathered bedrock	moist	buck brush	valley bottom
1221916	404130	7082956	1131	24-Jul-11	Lukas	40	c	light brown	5	5				90	weathered bedrock	moist	buck brush	valley bottom
1221917	404160	7083005	1120	24-Jul-11	Lukas	40	c	light grey				20		80	weathered bedrock	dry	buck brush	valley bottom
1221918	404182	7083035	1114	24-Jul-11	Lukas	50	c	light brown	8			5		90	weathered bedrock	dry	buck brush	valley bottom
1221919	404203	7083081	1109	24-Jul-11	Lukas	40	c	light brown	5					95	weathered bedrock	moist	buck brush	valley bottom
1221920	404233	7083121	1107	24-Jul-11	Lukas	40	c	light brown	10					90	weathered bedrock	moist	buck brush	valley bottom
1221921	404271	7083160	1103	24-Jul-11	Lukas	40	c	light brown	5			5		90	weathered bedrock	moist	buck brush	valley bottom
1221922	404299	7083205	1099	24-Jul-11	Lukas	50	c	light grey	5			5		90	fluvial	moist	buck brush	valley bottom
1221923	404308	7083223	1098	24-Jul-11	Lukas	40	c	light grey	20			20		60	fluvial	moist	buck brush	valley bottom
1221924	403343	7080164	1500	25-Jul-11	Lukas	40		light grey	10	20		20		50	weathered bedrock	moist	alpine	ridge top
1221925	403342	7080213	1487	25-Jul-11	Lukas	30	c	light brown	30	10		20		40	weathered bedrock	moist	alpine	ridge top
1221926	403351	7080263	1472	25-Jul-11	Lukas	30	a	dark brown	90	10					weathered bedrock	moist	alpine	ridge top
1221927	403348	7080313	1460	25-Jul-11	Lukas	30	a	light brown	100						weathered bedrock	moist	alpine	mid slope
1221928	403346	7080364	1447	25-Jul-11	Lukas	30	a	dark brown	70	30					weathered bedrock	moist	buck brush	mid slope
1221929	403347	7080414	1435	25-Jul-11	Lukas	30	a	light brown	40	10					weathered bedrock	moist	buck brush	mid slope
1221930	403354	7080460	1424	25-Jul-11	Lukas	30	c	light brown	40	20				40	weathered bedrock	moist	buck brush	mid slope
1221931	403350	7080516	1410	25-Jul-11	Lukas	30	c	light brown	40	10				50	weathered bedrock	moist	buck brush	mid slope
1221932	403344	7080565	1400	25-Jul-11	Lukas	30	c	light brown	10	10		20		60	weathered bedrock	moist	buck brush	mid slope
1221933	403345	7080614	1389	25-Jul-11	Lukas	30	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221934	403350	7080659	1380	25-Jul-11	Lukas	30	c	dark brown	70					30	weathered bedrock	moist	buck brush	mid slope
1221935	403352	7080712	1369	25-Jul-11	Lukas	40	c	light brown	20					80	weathered bedrock	moist	buck brush	mid slope
1221936	403347	7080765	1357	25-Jul-11	Lukas	40	c	dark brown	70					30	weathered bedrock	moist	buck brush	mid slope
1221937	403339	7080813	1344	25-Jul-11	Lukas	40	c	light brown	30	10				60	weathered bedrock	moist	buck brush	mid slope
1221938	403326	7080865	1326	25-Jul-11	Lukas	40	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221939	403326	7080918	1303	25-Jul-11	Lukas	40	c	dark brown	30	10				60	weathered bedrock	moist	evergreen forest	valley bottom

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Depth (cm)	Horizon	Colour	Sample Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1221940	403329	7080964	1290	25-Jul-11	Lukas	30	a	dark brown	90	10					weathered bedrock	moist	buck brush	valley bottom
1221941	403328	7081012	1278	25-Jul-11	Lukas	30	a	dark brown	100						weathered bedrock	moist	buck brush	valley bottom
1221942	403323	7081066	1269	25-Jul-11	Lukas	30	a	black	100						weathered bedrock	moist	buck brush	valley bottom
1221943	403329	7081109	1262	25-Jul-11	Lukas	40	c	dark brown	40					60	weathered bedrock	moist	buck brush	valley bottom
1221944	403339	7081160	1254	25-Jul-11	Lukas	40	c	light brown	30					70	weathered bedrock	moist	buck brush	valley bottom
1221945	403337	7081307	1248	25-Jul-11	Lukas	40	c	light brown	60	10				30	weathered bedrock	moist	evergreen forest	mid slope
1221946	403347	7081357	1260	25-Jul-11	Lukas	40	c	light brown	20	10				70	weathered bedrock	moist	buck brush	mid slope
1221947	403377	7081391	1268	25-Jul-11	Lukas	50	c	light brown	10	10				80	weathered bedrock	dry	buck brush	mid slope
1221948	403410	7081419	1270	25-Jul-11	Lukas	50	c	light brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1221949	403447	7081452	1264	25-Jul-11	Lukas	60	c	light brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1221950	403496	7081486	1263	25-Jul-11	Lukas	50	c	light brown	10	20				20	weathered bedrock	moist	buck brush	mid slope

Appendix II: Silt Sample Descriptions

Silt Sample Descriptions

UTM NAD83 Zone 8

Sample ID	Easting	Northing	Elevation (m)	Date	Sampler	Sample Environment	Medium	Medium depth (m)	Medium width (m)	Bank type	Water colour	Vegetation Cover
1220605	401671	7088193	980	18-Jul-11	Dan	low energy pool	creek	0.5	3	organics, alluvia	clear	buck brush
1220606	401690	7088166	982	18-Jul-11	Dan	tiny slow stream	stream	0.2	0.6	organics	clear	buck brush
1220607	401693	7088097	985	18-Jul-11	Dan	low energy pool	creek	0.5	3	organics, alluvia	clear	buck brush
1220608	401700	7087947	991	18-Jul-11	Dan	low energy pool	creek	0.4	3	organics, alluvia	clear	buck brush
1220609	401712	7087717	999	18-Jul-11	Dan	behind big rock	creek	0.5	3	organics, alluvia	clear	buck brush
1220651	401377	7087580	1029	20-Jul-11	Dan	low energy pool	creek	0.4	2	organics, alluvia	clear	buck brush,alpine
1220652	401587	7087566	1013	20-Jul-11	Dan	low energy pool	creek	0.4	2	organics, alluvia	clear	buck brush,alpine
1220662	403520	7081349	1228	7-Aug-11	Dan	low energy pool	creek	0.3	2	organics, alluvia	clear	buck brush,alpine
1220663	403815	7081542	1206	7-Aug-11	Dan	low energy pool	creek	0.3	1	organics, alluvia	clear	buck brush,alpine
1220664	404096	7081634	1206	7-Aug-11	Dan	low energy pool	creek	0.3	2	organics, alluvia	clear	buck brush,alpine
1220701	401687	7087825	991	22-Jul-11	Moses	higher energy zone	creek	0.5	3	organics, alluvia	clear	buck brush
1220702	401660	7088138	976	22-Jul-11	Moses	low energy pool	creek	0.5	3	organics, alluvia	clear	buck brush
1220703	401403	7088715	952	22-Jul-11	Moses	low energy pool	creek	0.5	3	organics, alluvia	clear	buck brush
1220704	399301	7086753	1262	23-Jul-11	Moses	behind rock	creek	0.4	3	organics, alluvia	clear	buck brush
1220705	399449	7086879	1238	24-Jul-11	Moses	low energy pool	creek	0.3	2	organics, alluvia	clear	buck brush
1220706	399666	7087028	1213	24-Jul-11	Moses	low energy pool	creek	0.3	1	organics, alluvia	clear	buck brush
1220707	399703	7087087	1206	24-Jul-11	Moses	slow stream	stream	0.2	0.6	organics, alluvia	clear	buck brush
1220708	399751	7087162	1196	24-Jul-11	Moses	low energy pool	creek	0.3	2	organics, alluvia	clear	buck brush
1220709	399990	7087450	1164	24-Jul-11	Moses	low energy pool	creek	0.3	2	organics, alluvia	clear	buck brush
1222101	401411	7086165	1051	24-Jul-11	Richard	high energy	creek	0.3	2	organics, alluvia	clear	buck brush
1222102	401484	7086255	1088	24-Jul-11	Richard	bend in creek	creek	0.3	2	organics, alluvia	clear	buck brush
1222103	401596	7086499	1052	24-Jul-11	Richard	north side small island	creek	0.3	2	organics, alluvia	clear	buck brush
1222104	401623	7086464	1048	24-Jul-11	Richard	where west tribute comes in	creek	0.3	2	organics, alluvia	clear	buck brush
1222105	401660	7086399	1051	24-Jul-11	Richard	trap after south curve	creek	0.4	2	organics, alluvia	clear	buck brush

Appendix III: Rock Sample Descriptions

Rock Sample Descriptions

UTM NAD83 Zone 8

Abbreviations: qtz - quartz, py - pyrite, cpy - chalcopyrite, po - pyrrhotite, chl - chlorite, fg - fine grained, mg - medium grained, metased - metasedimentary, min - mineralization, OC - outcrop

Sample ID	Easting	Northing	Elevation (m)	Date taken	Sampler	Description
1204313	402725	7086512	1434	18-Jul-11	Moses	Qtz veins crosscutting pebby conglomerate? And other qtz veins running sub horizontal w/ bedding of host. Pebbles qtz or chert. Some veins slightly crenulated, sub horizonal veins strike 270/18/N
1204315	402733	7086486	1431	18-Jul-11	Moses	Rock sample is float or talus retreived out of soil sampling hole, oxidized blebs within pebbly conglomerate
1204317	402553	7086123	1309	18-Jul-11	Moses	Huge, white quartz boulder with oxidized pockets 1-1.5 inches.
1204318	399783	7087943	1381	20-Jul-11	Moses	Qtz w/ oxidized pockets, oxidation colours are red, orange to yellow. Vein thickness varies from 3/8" to about a meter. Observing a lot of pinching as well. Striking 090/43/NW, crosscutting slateish bedrock at 100/21
1204319	399727	7087962	1376	20-Jul-11	Moses	Oxidized qtz pockets, bright yellow oxidation
1204320	399602	7088042	1356	20-Jul-11	Moses	Highly silicified altered slate, might be a sericite? Alteration with 2mm to 3mm qtz boudins. Stike 098/48/NW. Oxidized on outside of rock, no noticable sulphides in fabric of rock.
1204321	399683	7087853	1366	20-Jul-11	Moses	Oxidized qtz veins in situ more like a swarm of veins crosscutting a highly silicified sericite alteration with qtz. Boudins flattened about 5mm to 7mm long. 094/27/S?
1204322	399717	7087799	1370	21-Jul-11	Moses	Small fold, from ground of first plunge, 351/30. rock is sericite? Alteration w qtz boudins 3mm to 5mm, oxidized throughout the fabric of the rock, highly silicified
1204323	399819	7087850	1352	21-Jul-11	Moses	Oxidized chloritic slate w/ qtz fracture infill also oxidized
1204324	399822	7087848	1352	21-Jul-11	Moses	Oxidized green slate. Strike 096/50 N, sulfides visible with lens, py
1204325	399932	7087904	1339	21-Jul-11	Moses	Qtz vein, oxidized, 18-20" thick, 090/40N
1204326	400526	7088067	1235	21-Jul-11	Moses	Thinly bedded slate, light grey qtz carb vein sub horizontal 2.5" thick. 114/12. Heavy, possibly barite? Thinly bedded slate, light grey.
1204327	401305	7087836	1126	22-Jul-11	Moses	Oxidized graphitic slate. Brittle deformation, w remnant leached sulphides and silicified. Observed slickenslides on one rock. 068/11N (sub horizontal)
1204328	401306	7087842	1127	22-Jul-11	Moses	Silicified slate, brittle def, with oxidized remnant leached sulfides
1204329	401310	7087846	1127	22-Jul-11	Moses	Oxidized qtz veins, pinch and swell fracture infil 1/8 to 3/8 inch in a gritty slate, highly silicified, tiny vugs
1204330	400588	7086709	1370	23-Jul-11	Moses	Qtz vein or several all in one area. Approximately 10 to 15m wide. Qtz is mostly oxidized w rust filled vugs. Some of the boulders are quite large. Strike 320 NW, no apparent dip
1204331	400587	7086709	1370	23-Jul-11	Moses	Oxidized altered sericite schist w small qtz boudins right next to qtz vein material
1204332	400488	7086825	1365	23-Jul-11	Moses	Qtz vein striking 170/60 E. Width of vein between 1.5m to 4m and is visible for over 20m at surface. Qtz has oxidized pockets, some with calcite in close association w py cubes, not toally exsolved from the vugs
1204333	399621	7086705	1281	23-Jul-11	Moses	Looks like a well cooked intrusive porphyry. Plag? Oxidized on outside of rock
1204334	399601	7086664	1302	24-Jul-11	Moses	Porphyry? Recrystallized, grey, faint phenocrysts. Abundant arsenopyrite, no crystal form. Scree is all oxidized (gossan). Mirolatic cavities w drusy crystallized qtz. Width of exposed porphyry 2.5m in situ, NS strike. Width of scree slope is 50+m.

Sample ID	Easting	Northing	Elevation (m)	Date taken	Sampler	Description
1204335	404426	7080860	1348	25-Jul-11	Moses	FLOAT qtz breccia with sulphides
1204336	404393	7081209	1324	25-Jul-11	Moses	Heavily oxidized rock w small qtz veins. 260/40/S. Very rusty, no sulphides
1204337	404398	7081296	1315	25-Jul-11	Moses	142/64/E, sulphide in qtz next to sericite schist
1204338	404403	7081290	1314	25-Jul-11	Moses	Localized vein breccia? Minor sulphides, sericite schist.
1220601	402791	7086519	1441	18-Jul-11	Dan	260/28/N, 50X10EW OC on top of ridge. Shallow angle qtz veining 5-30cm, generally bull, some rusty brown. Host is weathered fg brown-grey metaseds, well foliated. Sample is mostly qtz.
1220602	402800	7086525	1439	18-Jul-11	Dan	Sample is of host, same area as previous sample, schistose, but full of 3mm qtz eyes, rusty, red weathering
1220603	402622	7086847	1413	18-Jul-11	Dan	3x3OC, same metaseds, 3mm qtz eyes, fine to med grain, brown-red, well foliated
1220604	402639	7087015	1398	18-Jul-11	Dan	Big ridge with multiple qtz veins 1-10cm crosscutting eah other, multiple hydrothermal events?.Sample is 80% qtz, 20% metased host. No visible min., intense foliation, 288/35/N, OC is 30x10m
1220610	399791	7087939	1381	20-Jul-11	Dan	FLOAT on top of ridge, has not travelled far, angular, rusty qtz vein with silvery metallics, some iron or Mn, hematite?. Host metaseds
1220611	399829	7087926	1371	20-Jul-11	Dan	Same metased host, anotherer 5-8cm qtz vein with rusty metallics, slightly crenulated
1220612	399964	7087903	1336	20-Jul-11	Dan	Metallic qtz vein partially mixed with surrounding metaseds, strong foliation, rusty
1220613	400070	7087957	1294	20-Jul-11	Dan	Small 10cm boundined qtz vein with purple-silverish metallic sheen above bleached metaseds. 264/34/N, lineament of 306/22.
1220614	402310	7084410	1440	22-Jul-11	Dan	Opposite peak. Bleached, light grey, fg metased, maybe a quartzite? Rusty seams, blockey structure, unable to read foliation
1220615	402242	7084569	1389	22-Jul-11	Dan	Recrystallized, rusty qtz with silvery metallics on top of chlorite schist. Photo of rounded sheared edge, fold hinge? fg, well foliated, brown-grey
1220616	402957	7081821	1462	24-Jul-11	Dan	Talus, cooked up metased, foliated, some metallics, fg, light grey, rusty, host looks recrystallized possibly from contact metamorphism of the Big Creek stock to the south
1220617	403372	7081617	1382	24-Jul-11	Dan	Qtz vein with chlorite
1220618	403436	7081632	1368	24-Jul-11	Dan	5x5m outcrop near posts, bit of rusty qtz w fg py? Host bleached and recrystallized metaseds with inch scale crenulations
1220619	403706	7081784	1311	24-Jul-11	Dan	Qtz vein, 30cm wide, rusty, within predescribed metased host, minor py?? Semi oxidized fg, green chl.
1221751	403335	7088543	1482	20-Jul-11	Richard	Carbonate peak, very silicous,minor py
1221752	403307	7088544	1490	20-Jul-11	Richard	Carbonate peak gossan, ?? Contact iron formation, slaty, very rusted bands
1221753	403304	7088542	1488	20-Jul-11	Richard	Carbonate peak, hanging wall, silicious and py
1221754	403276	7088615	1466	20-Jul-11	Richard	Metased with heavy sulfur and/or arsenic pits, subcrop, rusted with hollowed cavities
1221755	403278	7088617	1471	20-Jul-11	Richard	Same boulder as 1221754, contact rock with sulphides

Sample ID	Easting	Northing	Elevation (m)	Date taken	Sampler	Description
1221756	403279	7088631		20-Jul-11	Richard	Vuggy metased with bornite, cpy on fractures, heavy smell of As when breaking rock.
1221757	403279	7088631		20-Jul-11	Richard	Same as 1221756
1221758	403183	7088233	1402	20-Jul-11	Richard	S-SW of aticline, metased, hematitic, possible fuchite
1221759	403011	7088117	1346	20-Jul-11	Richard	Further along strike, silicified metased rock with py, possibly sampled before
1221760	403314	7088564	1477	21-Jul-11	Richard	Gabbroic with py, narrow dike-like feature, azimuth 62 degrees, rusty area with carbonate
1221761	403505	7088515	1463	21-Jul-11	Richard	NE limit of contact iron formation. Qtz boulder runoff, rainbow plume and rust, 0.5 cm py vugs
1221762	403512	7088586	1448	21-Jul-11	Richard	Ledge= thrusted up?. Azimuth 236 degs. Qtz with raindown plum with rust, cpy?
1221763	403536	7088632	1433	21-Jul-11	Richard	Near north boundary, very heavy iron formation boulder with thick graphite
1221764	403346	7088842		21-Jul-11	Richard	Bornite zone' north extension more abudant (maybe secondary) included with graphite at this location. subcrop appears to be in situ
1221765	403276	7088725	1421	21-Jul-11	Richard	Qtz boulder, bornite in fracture, arsenic smell
1221766	402711	7086732	1431	22-Jul-11	Richard	Rusty qtz boulder with very minor py and cpy
1221767	402669	7087107	1383	22-Jul-11	Richard	Heaved qtz boulder rusted with graphite
1221768	402643	7087091	1375	22-Jul-11	Richard	Qtz/graphite along diorite dike, azimuth 350 degs, hematite and bornite (fuchite?) with epidote alteration. Also qtz stringers within.
1221769	402643	7087091	1377	22-Jul-11	Richard	Oxidized metased
1221770	402638	7087088	1375	22-Jul-11	Richard	Contact rk, graphite and bornite
1221771	402636	7087084	1378	22-Jul-11	Richard	Part of diorite dike, mica and py, texture varies
1221772	401274	7085632	1309	23-Jul-11	Richard	Silicified felsic intrusive. Near top of ridge located silicified slate mineralized with py and/or po.
1221773	401298	7085650	1323	23-Jul-11	Richard	3 large qtz blocks. Sub crop. Vugs with rust and minor py
1221774	401329	7085652	1324	23-Jul-11	Richard	Rusty qtz boulder 1x1 m. Dug it out. Also many other smaller ones. Also see contact rock, rusty with very minor py and cpy
1221775	401309	7085693	1306	23-Jul-11	Richard	North traverse along lineament. Qtz boulder: bornite plume. Soil taken near sample (1220858)
1221776	401264	7085877	1228	23-Jul-11	Richard	Ultramafic? Float. Py, mica, large biotite 1-2cm, tetrahedral crystal.
1221777	401229	7085948	1192	23-Jul-11	Richard	Next to old pit. Large contact boulder. Qtz- silicified slate. Stibnite, cpy? Arseno? Extremely rusted
1221778	401152	7086134	1153	23-Jul-11	Richard	North side creek, up slope, rusted qz boulder, bornite or iron plume..next to soil 1220864

Sample ID	Easting	Northing	Elevation (m)	Date taken	Sampler	Description
1221779	401139	7086148		23-Jul-11	Richard	Anoter rusted qtz boulder. Nice cpy and bornite plume, next to 1220865
1221780	401101	7086232	1218	23-Jul-11	Richard	Interbedded qtz vein within seds.. Iron stained, cpy? Py still visible.
1221781	401068	7086244	1236	23-Jul-11	Richard	Qtz vein from gossan zone
1221782	401070	7086249	1236	23-Jul-11	Richard	Qtz vein from gossan zone
1221783	401044	7086264	1235	24-Jul-11	Richard	North limit exposed gossan. Possibly telluride? Qtz vein still in situ.
1221784	401208	7086175	1184	24-Jul-11	Richard	2x2 qtz boulder, rusty, silver metallics, fuchite green
1221785	401283	7086127	1129	24-Jul-11	Richard	Float in the creek, multiple 1x2 ft iron rich quartz boulders (magnetic)
1221786	401420	7085849	1243	24-Jul-11	Richard	Rustly qtz boulder next to OC. Amygdaloidal. Appears to be fracture filling; fine py visible in fractures only.
1221787	401642	7086467	1052	24-Jul-11	Richard	Float, metased with po
1221788	403481	7081638	1364	25-Jul-11	Richard	Large rusted qtz boulder (frost heave). Sampled qtz with bornite plume combined w some muscovite/chl schist
1221789	403576	7081694	1347	25-Jul-11	Richard	Qtz vein along ledge (rusty), bornite plume, Sam took soil 1220900 right beside.
1221790	403493	7081867	1418	25-Jul-11	Richard	Rusted qtz boulder along with wall rock. Sampled qtz only. Py, po
1221791	403149	7082394	1283	25-Jul-11	Richard	Large qtz and CTC boulder, bornite plume, extremely rusted, possible 1-2inch IR at one time
1221792	403139	7082598	1198	25-Jul-11	Richard	Boulder in creek, brecciated, chalcopyrite?
1221793	403201	7082766	1166	25-Jul-11	Richard	Boulder field runoff from hill. Qtz eye porphyry? With fg py
1221794	403637	7081699	1317	25-Jul-11	Richard	Qtz vein within muscovite/chl schist. Vein is parallel to bedding. Fe mineralization, bornite plume.
1221795	403651	7081837	1346	25-Jul-11	Richard	Qtz inclusion in chl/muscovite schist, bedrock in situ, viteous luster, Fe min on qtz, green and purple, shear zone?
1221796	403617	7081856	1367	25-Jul-11	Richard	Chlorite muscovite schist, subcrop, frostheave, silver metallic mineralization possibly arsenopyrite
1221797	403484	7082013	1406	25-Jul-11	Richard	Extrusive igneous, plagioclase, aphanitic, fg groundmass, mg phenocrysts of k-feld, 1cm phenocrysts of qtz, all float, 60 deg azimuth strike. Same unit as 1221793 with lesser py
1221798	403405	7082023	1423	25-Jul-11	Richard	Qtz vein in muscovite-chl schist, FLOAT, 30 deg strike, rainbow plume, Fe min, green purple, gold pink (bornite?)
1221799	403348	7081991	1431	25-Jul-11	Richard	Qtz boulder, top of hill, heavy Fe min, rainbow plume
1221701	402962	7081823	1456	24-Jul-11	Myles	Weathered and oxidized qtz vein running thru metallic banding possibly chl. Found on talus slope
1221702	403345	7081611	1378	24-Jul-11	Myles	Mica schist (metased), fg, rusted out seams 1mm to 1cm. Oxidized, fg py present. Seams offset a few mm. 270/19/N
1221703	403593	7081681	1317	24-Jul-11	Myles	Qtz vein running through a mica schist. Qtz has been oxidized, several spots of weathered py.

Appendix IV: Soil Sample Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: July 27, 2011
Report Date: November 02, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS WHI11000915.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO(1-4)
P.O. Number
Number of Samples: 296

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

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			WHI
SS80	296	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	296	Saving all or part of Soil Reject			WHI
1DX2	294	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

		Method	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
1203301	Soil		1.4	30.4	39.6	90	<0.1	31.0	29.6	1524	3.88	20.6	2.6	3.5	12	0.2	1.6	0.5	25	0.04	0.059	14
1203302	Soil		1.0	17.7	21.3	62	<0.1	17.9	7.5	350	2.33	15.0	3.4	1.3	14	0.2	1.2	0.3	37	0.13	0.068	11
1203303	Soil		0.8	13.3	22.7	41	<0.1	10.7	4.9	231	1.95	11.6	3.5	0.7	11	0.1	0.8	0.3	29	0.06	0.049	9
1203304	Soil		0.8	21.0	63.1	79	0.3	17.7	10.2	506	2.38	14.5	2.8	3.8	13	0.4	7.2	0.3	27	0.10	0.060	12
1203305	Soil		0.9	12.1	42.0	39	0.1	10.3	6.1	246	2.18	21.6	1.7	5.4	8	0.2	2.4	0.3	30	0.04	0.023	18
1203306	Soil		0.8	17.0	34.5	62	<0.1	16.7	8.6	391	2.55	14.4	3.8	3.5	10	0.2	1.2	0.3	30	0.07	0.054	11
1203307	Soil		0.9	23.4	29.1	62	<0.1	19.3	10.8	512	2.77	17.9	5.2	4.5	11	0.3	1.2	0.3	34	0.08	0.055	13
1203308	Soil		0.8	16.4	25.8	79	<0.1	19.1	10.0	619	2.44	15.1	3.9	4.1	11	0.3	1.5	0.3	29	0.08	0.059	12
1203309	Soil		0.9	22.6	73.0	101	0.3	19.0	9.6	553	2.48	49.9	8.4	5.8	11	0.6	5.6	0.3	27	0.08	0.049	16
1203310	Soil		3.7	18.3	31.4	81	0.2	17.3	7.4	172	2.82	12.0	2.3	8.1	10	0.2	1.8	0.5	25	0.02	0.042	40
1203311	Soil		1.7	40.2	17.0	51	<0.1	11.0	4.9	172	2.32	10.3	4.1	0.5	29	0.2	1.4	0.2	34	0.10	0.112	14
1203312	Soil		0.3	13.0	15.7	37	<0.1	16.9	10.2	555	2.30	5.5	1.4	5.2	290	<0.1	2.7	0.1	11	10.25	0.121	29
1203313	Soil		0.3	12.1	11.9	46	<0.1	19.1	10.0	272	2.46	2.3	<0.5	7.9	257	<0.1	2.6	0.2	8	10.66	0.113	24
1203314	Soil		0.5	12.2	17.0	39	<0.1	17.0	8.3	421	2.09	7.5	2.0	5.9	26	0.1	0.5	0.2	24	0.52	0.070	25
1203315	Soil		0.6	19.1	18.1	48	<0.1	20.0	7.5	178	2.21	4.4	1.9	6.4	40	<0.1	1.5	0.1	11	1.32	0.065	26
1203316	Soil		0.6	31.9	12.4	92	<0.1	31.4	12.6	297	2.89	7.8	3.1	9.5	59	0.1	2.9	0.1	23	1.74	0.061	34
1203317	Soil		0.9	28.0	15.5	53	<0.1	24.1	9.5	202	2.61	8.9	5.5	5.4	38	<0.1	0.7	0.2	39	1.13	0.059	20
1203318	Soil		1.5	15.8	14.3	52	0.1	16.0	7.8	260	2.34	7.7	2.2	1.0	14	0.3	1.0	0.2	34	0.16	0.065	22
1203319	Soil		3.0	97.3	17.5	138	1.3	36.1	9.0	287	3.27	23.8	7.1	3.1	20	0.5	4.3	0.2	47	0.10	0.118	10
1203320	Soil		5.7	189.2	23.2	234	0.6	55.5	11.2	355	3.11	34.9	12.9	2.4	44	0.5	19.2	0.2	47	0.23	0.223	17
1203321	Soil		0.8	8.4	12.7	37	<0.1	11.4	5.4	194	2.60	10.4	3.2	1.7	9	0.1	0.9	0.2	41	0.07	0.041	10
1203322	Soil		1.7	57.6	15.4	70	0.3	22.9	8.3	168	3.32	9.7	4.1	3.9	9	0.2	2.6	0.2	50	0.04	0.039	16
1203323	Soil		2.6	52.5	20.3	108	0.7	28.5	11.2	227	2.26	5.3	8.1	0.9	30	1.0	1.8	0.2	30	0.25	0.112	16
1203324	Soil		1.1	32.7	22.8	59	0.1	26.9	10.5	219	2.72	10.7	3.2	7.0	42	0.3	0.9	0.2	82	0.89	0.061	18
1203325	Soil		0.8	32.6	16.8	52	0.2	18.7	7.9	427	2.30	5.5	1.7	3.8	52	0.3	0.3	0.2	56	1.10	0.050	24
1203326	Soil		0.7	31.4	29.7	74	0.2	24.7	13.0	282	3.17	11.2	1.9	8.5	54	0.1	8.3	0.2	8	1.60	0.048	26
1203327	Soil		0.7	13.1	15.3	46	0.1	20.3	10.3	282	2.52	8.8	1.2	4.3	86	0.1	2.8	0.1	20	2.88	0.065	17
1203328	Soil		0.3	11.8	19.5	53	<0.1	18.0	9.9	336	2.14	4.5	0.7	3.0	165	0.2	2.2	0.1	10	5.40	0.102	25
1203329	Soil		0.5	10.4	16.7	55	<0.1	18.7	8.8	397	2.30	4.1	1.1	4.9	260	0.2	2.0	0.1	13	8.48	0.135	25
1203330	Soil		1.5	11.9	12.9	39	0.1	11.4	6.0	222	2.76	10.7	2.9	3.1	6	0.2	0.8	0.2	56	0.06	0.039	8

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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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1203301	Soil	24	0.50	57	0.011	<1	1.57	0.005	0.02	0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1203302	Soil	20	0.35	105	0.018	2	1.12	0.006	0.03	0.2	0.03	1.1	<0.1	<0.05	4	<0.5	<0.2
1203303	Soil	15	0.21	59	0.008	1	0.87	0.005	0.03	0.2	0.04	0.5	<0.1	<0.05	3	<0.5	<0.2
1203304	Soil	17	0.30	82	0.014	<1	1.02	0.004	0.03	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1203305	Soil	12	0.14	66	0.011	<1	0.82	0.004	0.02	0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
1203306	Soil	20	0.29	97	0.014	<1	1.33	0.005	0.03	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
1203307	Soil	23	0.35	114	0.018	<1	1.35	0.005	0.03	0.2	0.04	2.0	<0.1	<0.05	4	<0.5	<0.2
1203308	Soil	19	0.34	92	0.017	<1	1.26	0.005	0.04	0.2	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1203309	Soil	18	0.30	105	0.020	<1	0.96	0.004	0.04	0.1	0.04	1.8	<0.1	<0.05	3	<0.5	<0.2
1203310	Soil	17	0.15	52	0.017	<1	0.86	0.004	0.06	0.3	0.03	1.0	0.2	<0.05	3	1.1	<0.2
1203311	Soil	18	0.20	76	0.005	<1	1.05	0.004	0.03	0.1	0.06	0.3	0.1	<0.05	4	0.6	<0.2
1203312	Soil	15	0.49	83	0.003	<1	0.71	0.004	0.02	<0.1	0.03	2.9	<0.1	<0.05	2	<0.5	<0.2
1203313	Soil	13	0.86	70	0.001	<1	0.91	0.003	0.03	<0.1	0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1203314	Soil	17	0.58	143	0.007	<1	1.11	0.007	0.02	0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
1203315	Soil	14	0.92	92	0.001	<1	1.06	0.003	0.04	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1203316	Soil	30	1.91	85	0.002	<1	1.60	0.004	0.03	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
1203317	Soil	27	0.96	160	0.009	<1	1.49	0.005	0.03	0.1	0.04	2.7	0.1	<0.05	5	<0.5	<0.2
1203318	Soil	18	0.33	156	0.009	<1	1.11	0.005	0.04	<0.1	0.02	0.7	0.1	<0.05	5	<0.5	<0.2
1203319	Soil	26	0.31	116	0.013	<1	1.70	0.005	0.05	0.2	0.07	2.0	0.1	<0.05	4	2.1	<0.2
1203320	Soil	17	0.14	88	0.003	<1	1.10	0.003	0.06	<0.1	0.04	1.6	0.2	<0.05	2	2.2	<0.2
1203321	Soil	22	0.31	85	0.021	<1	1.43	0.005	0.03	0.1	0.04	1.4	0.1	<0.05	4	<0.5	<0.2
1203322	Soil	20	0.21	209	0.011	<1	1.46	0.004	0.05	<0.1	0.03	1.8	0.2	<0.05	6	<0.5	<0.2
1203323	Soil	18	0.29	166	0.010	<1	0.92	0.006	0.05	0.1	0.17	1.0	0.3	<0.05	3	1.5	<0.2
1203324	Soil	48	4.22	97	0.009	<1	2.92	0.006	0.02	<0.1	0.03	4.5	<0.1	<0.05	10	<0.5	<0.2
1203325	Soil	34	2.12	197	0.013	<1	2.01	0.007	0.03	<0.1	0.04	3.9	0.1	<0.05	8	<0.5	<0.2
1203326	Soil	10	0.26	180	<0.001	1	0.51	0.005	0.05	<0.1	0.02	3.5	<0.1	<0.05	1	<0.5	<0.2
1203327	Soil	17	0.77	146	0.006	1	1.02	0.009	0.03	<0.1	0.03	2.7	<0.1	<0.05	3	<0.5	<0.2
1203328	Soil	18	1.20	74	0.002	<1	1.20	0.005	0.03	<0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1203329	Soil	17	0.22	138	0.004	<1	0.44	0.005	0.02	0.1	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
1203330	Soil	28	0.28	83	0.024	<1	2.17	0.007	0.03	0.3	0.08	2.1	0.1	<0.05	6	0.5	<0.2

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Toronto ON M5X 1C9 Canada

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	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
1203331	Soil	2.9	39.1	38.9	62	1.2	12.4	4.6	133	2.50	19.4	4.3	0.2	29	0.2	3.0	0.2	44	0.09	0.133	13
1203332	Soil	2.2	15.3	15.4	39	0.2	10.0	4.0	138	2.62	13.3	3.0	2.5	11	0.2	1.5	0.2	44	0.05	0.052	11
1203333	Soil	2.5	30.3	38.7	80	0.4	22.4	11.3	334	2.26	9.6	3.9	3.7	17	0.4	4.1	0.2	29	0.11	0.076	28
1203334	Soil	0.7	30.2	35.0	87	<0.1	27.8	18.3	656	3.18	4.6	1.1	3.9	10	0.2	2.6	0.4	16	0.04	0.043	24
1203335	Soil	0.8	19.5	25.9	55	<0.1	18.6	10.2	315	2.68	8.0	2.4	5.5	8	0.2	0.9	0.3	29	0.04	0.030	18
1203336	Soil	0.7	18.5	37.2	70	<0.1	19.5	11.6	523	2.69	11.0	1.6	4.3	10	0.4	1.1	0.2	29	0.07	0.039	15
1203337	Soil	0.8	25.1	23.4	70	<0.1	22.7	10.7	381	2.57	28.1	6.8	7.3	17	0.2	1.5	0.4	36	0.16	0.054	25
1203338	Soil	0.8	27.8	28.4	75	<0.1	25.4	11.3	391	2.80	26.6	5.6	5.7	16	0.2	1.2	0.4	40	0.15	0.049	24
1203339	Soil	1.0	24.8	33.1	74	<0.1	23.0	11.1	358	2.78	22.4	4.2	6.7	12	0.3	1.3	0.4	40	0.11	0.040	22
1203340	Soil	1.3	16.6	90.8	96	0.2	16.7	9.7	366	2.95	22.4	2.5	8.3	14	0.5	1.7	0.4	33	0.11	0.044	24
1203341	Soil	1.2	15.7	163.5	105	0.7	12.6	6.7	273	2.90	36.4	3.0	11.1	10	0.4	2.8	0.5	28	0.03	0.037	30
1203342	Soil	1.9	17.5	145.3	631	0.1	24.7	22.4	1190	6.29	15.1	<0.5	23.3	38	3.7	4.6	0.1	93	0.48	0.182	38
1203343	Soil	0.2	55.5	13.0	89	<0.1	29.0	19.3	517	3.05	1.1	3.3	12.6	14	<0.1	0.5	0.5	9	0.02	0.029	36
1203344	Soil	0.9	27.4	34.6	83	0.3	25.3	11.3	388	2.75	10.4	1.9	7.2	11	0.3	3.8	0.2	28	0.08	0.043	25
1203345	Soil	3.9	49.3	96.9	212	1.2	38.0	16.2	899	3.97	27.9	2.2	4.8	44	2.3	7.4	0.4	59	0.25	0.089	33
1203346	Soil	2.6	28.1	43.1	95	0.5	19.7	10.6	484	2.49	12.2	1.4	3.0	30	0.8	4.2	0.3	43	0.37	0.061	19
1203347	Soil	1.8	30.1	24.5	72	0.4	22.2	10.2	276	2.71	14.0	7.6	5.6	23	0.3	2.5	0.2	47	0.24	0.056	21
1203348	Soil	0.8	35.0	29.4	78	<0.1	31.3	14.8	688	3.18	15.1	3.1	6.5	8	0.1	4.0	0.3	20	0.02	0.035	47
1203349	Soil	0.9	36.1	31.6	84	0.3	34.2	17.2	688	3.77	17.8	4.6	13.1	13	<0.1	3.9	0.3	27	0.02	0.032	37
1203350	Soil	2.4	46.8	26.3	87	0.1	35.3	15.5	269	4.06	17.5	13.2	14.4	16	<0.1	12.3	0.6	15	<0.01	0.040	49
1204314	Soil	1.0	9.9	18.8	35	<0.1	10.9	3.9	123	1.92	10.6	1.8	0.5	9	<0.1	0.8	0.2	42	0.08	0.056	13
1204316	Soil	0.9	23.1	25.3	69	<0.1	22.9	10.5	387	2.54	12.9	1.1	4.0	11	0.2	1.6	0.2	33	0.08	0.038	23
1217348	Soil	1.3	11.6	10.3	35	<0.1	12.9	5.8	181	2.60	8.2	2.4	1.7	12	0.3	0.7	0.2	52	0.09	0.038	12
1217349	Soil	5.6	95.1	30.9	272	0.5	61.1	22.6	364	3.43	14.2	6.7	5.1	63	1.3	3.5	0.2	42	0.36	0.174	28
1217350	Soil	0.7	22.5	18.1	71	0.1	22.5	11.1	378	2.73	6.2	2.2	2.9	107	0.2	1.1	0.2	20	3.41	0.104	16
1217351	Soil	0.5	17.0	14.9	56	<0.1	18.3	8.7	307	2.14	5.2	1.2	2.2	193	0.3	0.7	<0.1	16	7.54	0.108	10
1217352	Soil	0.8	21.7	18.1	67	0.1	23.7	11.1	418	2.81	7.7	1.8	3.7	66	0.4	1.2	0.1	28	1.85	0.108	18
1217353	Soil	0.6	18.2	14.9	73	<0.1	20.9	9.6	359	2.59	9.8	5.4	2.7	71	0.3	1.0	0.1	21	1.88	0.109	18
1217354	Soil	0.5	21.9	13.7	63	0.2	24.6	9.8	483	2.38	11.5	3.7	2.8	39	0.3	0.9	0.2	32	0.65	0.080	18
1217355	Soil	0.5	16.9	20.7	65	<0.1	24.2	10.9	466	2.67	7.7	3.8	5.1	31	0.2	0.9	0.2	22	0.60	0.130	19

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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
1203331	Soil	19	0.16	76	0.007	<1	0.86	0.007	0.05	0.5	0.09	0.3	0.2	<0.05	4	1.1	<0.2
1203332	Soil	19	0.20	81	0.012	<1	1.17	0.005	0.03	0.2	0.04	1.3	0.1	<0.05	4	0.6	<0.2
1203333	Soil	20	0.18	98	0.007	<1	0.71	0.004	0.03	0.2	0.20	1.9	0.4	<0.05	3	0.5	<0.2
1203334	Soil	16	0.25	49	0.005	<1	0.72	0.003	0.03	0.2	0.03	1.0	0.2	<0.05	3	<0.5	<0.2
1203335	Soil	20	0.28	81	0.013	<1	1.15	0.004	0.03	0.2	0.04	1.6	<0.1	<0.05	3	<0.5	<0.2
1203336	Soil	20	0.30	88	0.017	<1	1.00	0.005	0.03	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1203337	Soil	28	0.50	183	0.062	<1	1.29	0.010	0.12	0.5	0.03	2.7	0.2	<0.05	4	<0.5	<0.2
1203338	Soil	28	0.50	187	0.049	<1	1.37	0.008	0.08	0.5	0.04	2.8	0.2	<0.05	4	0.6	<0.2
1203339	Soil	27	0.44	151	0.037	<1	1.49	0.007	0.06	0.4	0.04	2.8	0.1	<0.05	4	<0.5	<0.2
1203340	Soil	19	0.22	85	0.016	<1	1.08	0.005	0.05	0.3	0.04	1.8	0.2	<0.05	4	0.5	<0.2
1203341	Soil	18	0.15	47	0.013	<1	0.81	0.004	0.04	0.3	0.04	1.6	0.2	<0.05	3	<0.5	<0.2
1203342	Soil	45	0.42	137	0.023	<1	1.18	0.006	0.05	<0.1	0.03	14.1	0.2	<0.05	6	<0.5	<0.2
1203343	Soil	15	0.40	26	0.007	<1	0.83	0.003	0.04	0.1	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1203344	Soil	20	0.25	92	0.012	<1	0.82	0.004	0.04	0.2	0.03	2.0	0.2	<0.05	3	<0.5	<0.2
1203345	Soil	28	0.09	205	0.008	<1	0.49	0.008	0.08	0.2	0.03	3.3	0.3	<0.05	2	1.0	<0.2
1203346	Soil	23	0.30	329	0.021	<1	0.91	0.006	0.10	0.2	0.04	1.9	0.2	<0.05	4	0.7	<0.2
1203347	Soil	31	0.40	295	0.027	<1	1.22	0.006	0.07	0.2	0.03	2.7	0.2	<0.05	4	0.8	<0.2
1203348	Soil	15	0.15	50	0.010	<1	0.70	0.004	0.05	<0.1	0.03	1.4	0.2	<0.05	3	0.7	<0.2
1203349	Soil	30	0.16	65	0.017	<1	0.80	0.005	0.05	0.1	0.03	2.4	0.3	<0.05	3	0.7	<0.2
1203350	Soil	14	0.02	36	0.003	<1	0.35	0.004	0.05	<0.1	0.02	1.3	0.1	<0.05	2	0.5	<0.2
1204314	Soil	17	0.20	81	0.015	<1	0.99	0.004	0.04	0.2	0.04	0.6	0.1	<0.05	4	<0.5	<0.2
1204316	Soil	21	0.38	128	0.016	<1	1.24	0.009	0.04	0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
1217348	Soil	21	0.29	147	0.020	<1	1.12	0.004	0.03	0.2	0.04	1.6	<0.1	<0.05	5	0.6	<0.2
1217349	Soil	17	0.28	287	0.004	<1	1.10	0.004	0.08	<0.1	0.05	3.5	0.2	<0.05	3	1.9	<0.2
1217350	Soil	18	0.44	239	0.003	<1	0.86	0.005	0.05	<0.1	0.07	2.6	<0.1	<0.05	2	0.8	<0.2
1217351	Soil	15	0.57	170	0.007	<1	0.67	0.008	0.04	<0.1	0.03	2.0	<0.1	<0.05	2	0.7	<0.2
1217352	Soil	21	0.40	249	0.006	<1	1.01	0.008	0.05	<0.1	0.07	3.3	<0.1	<0.05	2	0.8	<0.2
1217353	Soil	16	0.35	192	0.007	<1	0.93	0.006	0.04	0.1	0.04	2.9	<0.1	<0.05	2	0.8	<0.2
1217354	Soil	21	0.48	219	0.021	<1	1.10	0.009	0.04	0.2	0.07	3.1	<0.1	<0.05	3	0.7	<0.2
1217355	Soil	22	0.82	177	0.013	<1	1.33	0.005	0.05	<0.1	0.03	2.8	<0.1	<0.05	3	0.6	<0.2

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		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
1217356	Soil		0.4	22.9	15.0	55	<0.1	23.8	10.6	386	2.59	6.8	1.9	4.3	109	0.2	0.5	0.2	41	3.05	0.123	22
1217357	Soil		0.3	17.4	14.3	58	0.1	21.7	9.8	331	2.47	6.0	2.2	5.2	115	<0.1	0.4	0.3	30	3.51	0.093	21
1217358	Soil		0.3	16.7	13.7	54	0.1	19.2	8.0	304	2.36	5.2	1.0	3.3	46	<0.1	0.3	0.2	26	0.95	0.102	18
1217359	Soil		0.5	17.2	13.3	54	<0.1	20.8	8.9	360	2.34	7.8	3.8	6.3	20	<0.1	0.5	0.1	29	0.33	0.060	23
1217360	Soil		0.5	22.2	15.7	61	<0.1	23.4	8.7	323	2.50	7.7	4.4	5.0	42	<0.1	0.5	0.2	29	0.95	0.084	23
1217361	Soil		0.4	17.0	12.5	54	<0.1	18.0	7.9	301	2.36	7.0	0.9	2.7	32	<0.1	0.4	0.2	37	0.61	0.089	20
1217363	Soil		0.6	19.8	31.2	61	<0.1	18.8	7.9	162	2.66	10.3	1.7	6.6	10	0.1	2.2	0.3	24	0.06	0.044	42
1217364	Soil		1.0	18.6	45.1	71	0.1	16.4	7.6	300	2.89	16.8	2.5	7.9	12	0.3	3.8	0.4	29	0.08	0.048	34
1217365	Soil		1.1	34.2	47.5	92	0.2	27.0	13.9	454	3.39	18.0	8.3	7.4	20	0.3	2.6	0.3	38	0.16	0.078	27
1217366	Soil		0.8	25.4	44.2	73	0.1	19.2	9.4	323	2.80	13.2	2.9	7.1	11	0.1	3.2	0.3	25	0.05	0.051	39
1217367	Soil		1.1	24.8	33.6	64	<0.1	21.8	12.5	306	3.20	11.2	2.1	10.5	13	0.3	1.8	0.3	41	0.07	0.039	30
1217368	Soil		0.8	39.1	32.0	111	<0.1	34.4	15.0	375	3.39	9.8	2.3	16.4	20	<0.1	2.6	0.3	34	0.12	0.074	50
1217369	Soil		0.9	40.4	34.3	88	<0.1	32.5	18.5	678	3.69	8.1	2.5	10.5	28	0.1	1.4	0.5	65	0.22	0.096	36
1217370	Soil		0.9	19.5	15.7	52	<0.1	19.3	10.0	463	2.37	10.8	3.8	2.2	12	0.1	0.7	0.3	36	0.12	0.056	15
1217371	Soil		1.0	24.7	39.0	83	<0.1	24.6	11.0	364	3.12	11.0	2.0	4.3	15	0.2	1.5	0.4	43	0.11	0.060	29
1217372	Soil		0.8	17.8	29.3	53	<0.1	16.3	7.0	226	2.44	9.8	2.2	1.1	11	<0.1	0.9	0.3	38	0.09	0.057	21
1217373	Soil		0.9	11.4	22.5	56	<0.1	13.7	6.1	118	1.70	6.0	<0.5	1.6	7	<0.1	1.7	0.3	20	0.04	0.050	25
1217374	Soil		0.7	19.3	15.3	53	<0.1	17.0	9.3	316	2.32	9.4	2.0	2.7	12	0.1	0.7	0.2	33	0.13	0.062	17
1217375	Soil		0.9	15.8	17.9	47	<0.1	14.4	6.8	251	2.09	7.4	1.5	1.3	11	<0.1	0.6	0.2	30	0.08	0.047	19
1217376	Soil		0.8	13.4	20.8	47	<0.1	14.3	6.8	284	2.00	5.6	0.5	2.0	10	<0.1	0.8	0.3	23	0.07	0.045	21
1217377	Soil		0.8	9.9	18.4	31	<0.1	9.3	4.8	242	2.30	6.8	0.6	2.3	9	<0.1	0.5	0.2	34	0.07	0.057	17
1217378	Soil		0.6	15.7	24.5	45	0.3	12.7	5.6	336	1.68	5.5	1.5	0.7	38	0.1	1.1	0.2	23	0.75	0.064	18
1217379	Soil		1.0	20.3	11.2	58	0.4	17.6	6.8	249	2.40	8.3	2.4	1.1	24	0.1	0.5	0.2	52	0.39	0.063	15
1217380	Soil		0.8	24.8	11.6	67	0.1	26.0	8.4	244	2.40	8.9	2.4	2.4	22	0.2	0.6	0.2	43	0.31	0.075	19
1217381	Soil		0.6	16.9	10.3	68	<0.1	20.2	7.2	216	2.20	7.6	0.5	1.7	12	0.2	0.5	0.1	36	0.17	0.059	18
1217382	Soil		1.0	27.0	9.8	62	<0.1	19.7	6.9	236	2.03	6.9	1.9	2.7	12	0.2	0.8	0.1	35	0.12	0.058	19
1217383	Soil		1.0	21.7	10.6	49	<0.1	16.5	4.9	125	1.95	6.8	2.1	1.3	13	0.1	0.7	0.2	37	0.12	0.051	16
1217384	Soil		1.5	26.2	10.7	65	<0.1	20.9	6.9	202	2.05	6.7	1.4	2.0	15	0.2	1.0	0.2	33	0.10	0.058	18
1217385	Soil		1.1	22.9	9.0	58	<0.1	16.6	6.0	193	1.77	5.3	2.3	2.7	14	0.2	0.8	0.1	29	0.12	0.059	21
1217386	Soil		1.6	28.3	11.9	83	<0.1	22.0	7.5	260	2.25	9.4	2.4	2.9	21	0.3	1.4	0.1	37	0.13	0.071	22

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1217356	Soil	42	1.16	214	0.039	1	1.56	0.006	0.05	0.1	0.06	4.3	<0.1	<0.05	4	0.6	<0.2
1217357	Soil	29	1.30	191	0.026	<1	1.58	0.005	0.05	0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
1217358	Soil	25	1.04	278	0.008	<1	1.60	0.006	0.04	0.1	0.06	2.7	<0.1	<0.05	4	0.6	<0.2
1217359	Soil	23	1.11	226	0.016	<1	1.57	0.005	0.07	0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
1217360	Soil	25	1.19	240	0.016	<1	1.62	0.007	0.08	<0.1	0.06	3.2	<0.1	<0.05	4	<0.5	<0.2
1217361	Soil	29	0.92	335	0.015	<1	1.74	0.006	0.07	0.1	0.04	3.0	0.1	<0.05	5	<0.5	<0.2
1217363	Soil	17	0.30	107	0.012	<1	1.07	0.003	0.04	0.1	0.03	2.1	<0.1	<0.05	3	0.7	<0.2
1217364	Soil	18	0.25	80	0.016	2	1.03	0.004	0.05	0.1	0.02	1.5	0.1	<0.05	3	<0.5	<0.2
1217365	Soil	27	0.33	131	0.020	<1	1.05	0.005	0.05	<0.1	0.05	2.8	0.2	<0.05	3	0.6	<0.2
1217366	Soil	19	0.21	100	0.008	<1	0.81	0.004	0.05	<0.1	0.03	2.0	0.1	<0.05	3	0.6	<0.2
1217367	Soil	30	0.30	150	0.032	<1	1.19	0.005	0.06	0.1	0.04	2.5	0.1	<0.05	4	0.5	<0.2
1217368	Soil	36	0.35	134	0.040	<1	0.79	0.004	0.08	<0.1	0.02	3.6	0.2	<0.05	2	0.6	<0.2
1217369	Soil	70	0.84	369	0.093	3	1.36	0.005	0.29	0.1	0.01	4.6	0.5	0.05	5	<0.5	<0.2
1217370	Soil	22	0.36	156	0.024	2	1.31	0.005	0.04	0.2	0.02	1.9	0.1	0.06	4	<0.5	<0.2
1217371	Soil	39	0.38	114	0.025	2	1.22	0.004	0.06	0.1	0.03	2.5	0.1	0.06	4	<0.5	<0.2
1217372	Soil	27	0.29	103	0.019	2	1.18	0.005	0.05	0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
1217373	Soil	8	0.03	37	0.007	5	0.46	0.005	0.07	<0.1	0.03	0.5	<0.1	0.09	3	<0.5	<0.2
1217374	Soil	21	0.35	122	0.024	2	1.30	0.005	0.05	0.2	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1217375	Soil	16	0.24	70	0.013	2	1.02	0.005	0.06	0.1	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
1217376	Soil	12	0.17	42	0.012	2	0.72	0.004	0.04	0.1	0.03	0.9	<0.1	0.06	3	<0.5	<0.2
1217377	Soil	18	0.19	84	0.012	2	1.10	0.004	0.05	0.1	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1217378	Soil	14	0.20	157	0.007	2	0.93	0.007	0.04	<0.1	0.04	0.9	0.1	0.11	3	<0.5	<0.2
1217379	Soil	27	0.55	351	0.020	2	1.81	0.005	0.05	0.2	0.05	1.9	0.2	<0.05	6	<0.5	<0.2
1217380	Soil	26	0.59	264	0.024	1	1.61	0.007	0.06	0.2	0.02	2.4	0.1	<0.05	4	<0.5	<0.2
1217381	Soil	23	0.50	140	0.019	2	1.47	0.005	0.05	0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
1217382	Soil	21	0.34	128	0.032	1	1.24	0.004	0.05	0.1	0.02	2.4	0.1	<0.05	4	<0.5	<0.2
1217383	Soil	22	0.31	138	0.026	2	1.32	0.004	0.05	0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
1217384	Soil	18	0.26	112	0.032	1	1.07	0.003	0.07	0.1	0.02	1.6	0.1	<0.05	4	<0.5	<0.2
1217385	Soil	16	0.26	133	0.032	1	1.00	0.004	0.06	<0.1	0.03	1.7	0.1	<0.05	3	<0.5	<0.2
1217386	Soil	21	0.32	243	0.034	1	1.20	0.004	0.05	0.1	0.02	2.1	0.1	<0.05	4	<0.5	<0.2

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Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

		Method	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
1217387	Soil		2.4	28.5	11.5	114	0.1	29.3	8.3	209	3.31	10.3	2.7	1.0	19	0.5	1.8	0.1	47	0.10	0.078	21
1217388	Soil		1.4	37.3	14.2	111	<0.1	24.6	10.3	564	2.49	8.1	1.8	1.9	35	0.5	1.3	0.3	39	0.13	0.088	25
1217389	Soil		1.8	21.2	12.2	80	<0.1	18.8	6.1	210	2.53	9.8	5.6	0.8	17	0.3	1.4	0.2	37	0.12	0.078	16
1217390	Soil		0.8	19.2	9.8	58	<0.1	17.1	5.7	170	2.10	7.4	2.4	1.5	11	0.1	0.6	0.2	34	0.12	0.059	18
1217391	Soil		0.7	17.6	12.3	51	<0.1	16.8	5.8	177	2.06	6.3	2.1	1.8	11	0.1	0.7	0.2	35	0.10	0.055	22
1217392	Soil		0.9	16.2	14.0	50	<0.1	14.3	4.8	146	2.00	6.7	2.5	0.5	9	0.1	0.6	0.2	31	0.09	0.068	16
1217393	Soil		0.8	15.3	12.9	51	<0.1	13.4	5.2	157	1.99	6.1	0.9	0.8	9	0.1	0.6	0.2	33	0.09	0.058	21
1217394	Soil		0.6	15.4	11.3	45	<0.1	13.5	5.4	160	1.77	5.8	1.6	1.3	10	0.1	0.6	0.1	28	0.12	0.054	19
1217395	Soil		0.7	11.8	15.8	40	<0.1	10.8	4.0	102	1.93	6.0	3.1	0.7	9	<0.1	0.6	0.2	30	0.07	0.048	23
1217397	Soil		2.0	21.8	19.4	42	0.2	10.5	2.6	92	1.30	5.1	3.4	0.1	10	0.3	0.8	0.2	35	0.06	0.050	13
1217398	Soil		2.3	24.8	15.7	54	0.1	16.1	5.0	181	2.54	9.2	3.0	1.2	11	0.2	1.3	0.2	46	0.08	0.050	13
1217399	Soil		2.1	30.4	14.6	93	1.3	16.5	7.0	214	1.61	7.2	5.6	1.7	38	0.2	3.2	0.2	32	0.28	0.085	14
1217400	Soil		2.0	8.6	31.2	24	0.3	7.3	2.0	81	1.32	13.6	4.5	0.6	14	<0.1	3.2	0.2	33	0.05	0.038	14
1221851	Soil		2.8	22.4	24.7	58	0.3	15.1	9.8	594	2.66	15.7	8.9	0.6	60	0.2	5.7	0.2	35	0.09	0.101	19
1221852	Soil		2.7	27.7	42.2	70	0.4	16.1	4.9	173	2.21	9.5	7.1	1.2	32	0.5	2.9	0.2	35	0.16	0.072	17
1221853	Soil		2.0	33.4	16.6	72	0.8	19.5	6.2	197	2.41	8.9	7.2	1.5	57	0.2	4.0	0.2	30	0.20	0.105	22
1221854	Soil		4.4	35.3	42.0	67	0.2	16.8	2.8	63	0.90	4.9	3.6	<0.1	7	0.1	1.3	0.2	26	0.05	0.053	12
1221855	Soil		1.9	34.5	11.6	68	0.3	22.1	8.9	307	2.40	10.6	4.5	1.2	31	0.4	1.3	0.2	44	0.23	0.086	16
1221856	Soil		1.6	25.0	11.1	48	0.2	13.5	5.0	170	2.00	10.9	7.0	0.5	30	0.3	2.5	0.2	36	0.11	0.075	13
1221857	Soil		0.9	12.4	9.1	30	0.1	7.9	2.6	93	1.71	9.9	9.6	0.4	17	0.1	2.3	0.2	31	0.11	0.052	11
1221858	Soil		1.4	13.4	12.5	41	<0.1	13.1	3.6	129	1.83	8.7	3.9	0.4	10	0.4	0.8	0.2	36	0.08	0.043	12
1221859	Soil		1.1	52.7	11.9	78	0.5	26.3	9.1	267	2.51	11.8	4.7	1.0	20	0.7	1.0	0.2	42	0.21	0.082	16
1221860	Soil		6.4	119.7	29.1	229	0.8	49.7	10.4	325	2.78	12.1	18.2	0.5	27	1.5	2.6	0.2	46	0.26	0.183	13
1221861	Soil		7.8	97.8	15.6	231	1.0	52.5	9.6	202	2.20	12.5	13.0	4.1	39	2.2	4.7	0.2	32	0.38	0.121	17
1221862	Soil		1.5	34.6	15.2	74	0.8	20.9	7.1	373	1.76	7.4	5.4	0.3	42	0.5	1.4	0.2	30	0.42	0.097	11
1221863	Soil		1.0	13.8	8.7	18	0.4	7.2	1.6	41	1.12	5.3	4.0	0.1	15	0.2	1.0	<0.1	18	0.11	0.079	8
1221864	Soil		2.2	15.7	17.5	49	0.4	13.3	4.8	214	1.86	16.3	4.7	0.5	32	0.5	3.2	0.2	26	0.12	0.072	15
1221865	Soil		3.3	42.2	23.5	137	0.8	31.4	9.4	240	2.82	32.6	8.6	3.7	55	0.7	6.1	0.4	32	0.32	0.088	24
1221866	Soil		1.7	22.7	18.3	93	0.4	23.9	8.7	261	2.35	20.8	5.7	4.6	27	0.5	2.3	0.3	34	0.26	0.074	19
1221867	Soil		1.0	20.9	11.7	72	0.3	21.4	6.6	171	2.14	12.6	5.2	2.6	18	0.3	1.1	0.2	33	0.20	0.065	16

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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
1217387	Soil	25	0.39	181	0.015	1	1.31	0.004	0.05	0.1	0.03	1.6	0.2	<0.05	4	<0.5	<0.2
1217388	Soil	21	0.39	256	0.018	1	1.34	0.004	0.08	0.1	0.03	1.7	0.2	<0.05	4	<0.5	<0.2
1217389	Soil	21	0.30	157	0.010	<1	1.25	0.004	0.05	0.1	0.03	1.0	0.2	<0.05	4	<0.5	<0.2
1217390	Soil	22	0.39	107	0.019	1	1.31	0.004	0.05	0.1	0.05	1.6	<0.1	<0.05	4	<0.5	<0.2
1217391	Soil	22	0.35	132	0.021	1	1.25	0.006	0.05	0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
1217392	Soil	20	0.30	77	0.010	<1	1.13	0.004	0.04	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
1217393	Soil	20	0.32	83	0.015	1	1.23	0.004	0.04	0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
1217394	Soil	18	0.30	77	0.020	<1	1.03	0.006	0.04	0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
1217395	Soil	19	0.28	70	0.015	<1	1.12	0.004	0.04	0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
1217397	Soil	16	0.13	70	0.015	<1	0.93	0.007	0.04	<0.1	0.07	0.3	0.2	<0.05	5	0.5	<0.2
1217398	Soil	24	0.26	76	0.022	1	1.30	0.005	0.04	0.1	0.06	1.3	0.2	<0.05	5	0.6	<0.2
1217399	Soil	21	0.38	190	0.016	1	1.07	0.006	0.05	0.2	0.14	1.8	0.2	0.06	3	0.7	<0.2
1217400	Soil	16	0.11	69	0.017	1	0.53	0.005	0.06	0.1	0.05	0.6	0.2	0.08	5	0.6	<0.2
1221851	Soil	24	0.22	229	0.017	2	0.86	0.007	0.09	0.2	0.04	0.9	0.5	0.14	4	0.9	<0.2
1221852	Soil	22	0.28	124	0.033	2	0.75	0.009	0.09	0.3	0.06	1.0	0.4	0.12	4	1.2	<0.2
1221853	Soil	25	0.30	453	0.018	2	1.04	0.007	0.09	0.1	0.48	1.9	1.0	0.12	4	1.6	<0.2
1221854	Soil	13	0.05	55	0.011	2	0.43	0.008	0.05	<0.1	0.04	0.1	0.1	<0.05	3	0.7	<0.2
1221855	Soil	27	0.40	363	0.017	<1	1.55	0.007	0.06	0.1	0.13	1.8	0.2	<0.05	5	<0.5	<0.2
1221856	Soil	22	0.32	163	0.014	1	1.23	0.007	0.05	0.2	0.19	1.2	0.3	<0.05	5	1.0	<0.2
1221857	Soil	19	0.24	113	0.013	<1	1.05	0.005	0.03	0.1	0.14	1.2	0.2	<0.05	4	0.7	<0.2
1221858	Soil	18	0.20	81	0.013	4	1.04	0.006	0.03	0.1	0.09	0.9	0.1	<0.05	5	0.7	<0.2
1221859	Soil	24	0.38	225	0.019	3	1.48	0.009	0.05	0.2	0.16	2.0	0.1	<0.05	4	2.2	<0.2
1221860	Soil	22	0.33	125	0.015	3	1.00	0.009	0.10	0.1	0.12	1.1	0.2	<0.05	4	1.3	<0.2
1221861	Soil	19	0.33	142	0.024	<1	1.01	0.009	0.06	0.1	0.10	2.4	0.2	<0.05	3	1.4	<0.2
1221862	Soil	19	0.36	274	0.014	3	1.04	0.012	0.06	0.1	0.10	1.4	0.1	0.07	4	<0.5	<0.2
1221863	Soil	13	0.09	107	0.007	2	0.74	0.010	0.03	<0.1	0.15	0.4	0.1	0.05	3	<0.5	<0.2
1221864	Soil	18	0.20	230	0.012	1	0.76	0.006	0.06	0.1	0.13	0.8	0.2	<0.05	3	<0.5	<0.2
1221865	Soil	25	0.29	550	0.017	<1	1.03	0.007	0.09	0.4	0.16	2.8	0.4	<0.05	3	1.7	<0.2
1221866	Soil	25	0.44	462	0.033	<1	1.32	0.008	0.07	0.3	0.10	2.6	0.2	<0.05	4	0.6	<0.2
1221867	Soil	22	0.38	317	0.027	<1	1.27	0.007	0.05	0.3	0.05	2.2	0.2	<0.05	4	1.1	<0.2

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1221868	Soil	1.6	25.9	13.0	69	<0.1	19.3	5.6	162	2.18	11.5	3.9	0.8	13	0.3	1.7	0.2	40	0.13	0.054	14
1221869	Soil	1.3	37.0	13.4	68	0.2	24.8	7.0	237	2.33	10.5	4.2	2.7	19	0.2	2.0	0.2	31	0.16	0.059	17
1220751	Soil	0.3	14.8	15.7	58	<0.1	24.5	11.3	282	2.41	3.6	0.6	7.6	200	0.1	0.7	<0.1	10	9.03	0.133	26
1220752	Soil	0.5	15.3	16.2	53	<0.1	23.2	10.9	400	2.46	5.8	<0.5	6.5	167	<0.1	0.8	0.1	15	5.26	0.113	29
1220753	Soil	0.6	20.1	24.7	75	<0.1	28.2	13.8	329	2.79	4.3	<0.5	9.1	96	0.1	0.9	0.1	16	2.49	0.151	36
1220754	Soil	4.6	81.8	68.8	188	0.7	45.5	15.9	543	3.86	16.5	4.8	6.3	95	1.0	3.9	0.3	56	0.51	0.131	43
1220755	Soil	3.9	90.5	40.8	162	0.6	46.5	18.2	730	3.72	14.2	7.5	6.6	62	0.7	4.0	0.3	32	0.38	0.156	39
1220756	Soil	0.9	32.8	45.8	95	0.1	26.5	10.8	288	3.17	9.0	1.8	17.6	19	0.2	1.5	0.4	10	0.04	0.038	54
1220757	Soil	1.1	20.9	37.6	80	<0.1	26.2	12.5	642	2.44	9.2	2.4	12.1	21	0.2	1.9	0.2	16	0.13	0.045	39
1220758	Soil	0.7	15.6	18.8	55	<0.1	16.6	6.3	268	2.35	8.8	3.4	2.4	10	0.1	0.6	0.2	31	0.08	0.048	23
1220759	Soil	1.2	21.5	27.6	48	0.2	16.5	5.7	186	2.11	8.2	2.9	0.6	13	0.2	0.7	0.3	31	0.10	0.083	18
1220760	Soil	0.7	13.8	18.6	50	<0.1	15.8	6.2	300	2.10	9.8	5.1	1.2	12	0.2	0.6	0.2	33	0.10	0.047	18
1220761	Soil	1.0	13.0	20.0	57	<0.1	15.2	8.3	466	2.32	9.4	2.4	2.3	12	<0.1	0.7	0.2	33	0.11	0.062	21
1220762	Soil	1.0	17.8	29.2	47	<0.1	12.0	7.4	334	1.95	10.3	3.9	1.6	11	<0.1	1.2	0.3	30	0.09	0.053	18
1220763	Soil	0.7	20.3	26.5	67	<0.1	21.6	11.9	536	2.45	10.6	6.9	6.0	15	0.2	1.8	0.2	26	0.09	0.046	24
1220764	Soil	0.6	23.0	16.8	60	<0.1	22.6	10.0	535	2.23	12.3	4.0	5.3	14	0.1	1.0	0.2	32	0.12	0.049	17
1220765	Soil	0.5	27.9	13.2	60	0.1	20.5	8.3	381	2.21	11.4	2.4	4.0	16	<0.1	0.9	0.1	37	0.17	0.059	17
1220766	Soil	0.8	12.1	12.6	47	<0.1	13.0	8.5	347	2.48	8.8	2.5	4.2	11	0.1	0.5	0.1	43	0.11	0.035	14
1220767	Soil	0.9	21.4	19.4	50	<0.1	16.8	8.5	399	2.41	9.4	2.2	5.3	14	0.2	0.6	0.3	37	0.11	0.039	21
1220768	Soil	1.1	15.6	22.5	39	<0.1	12.6	5.2	145	2.07	7.6	3.4	0.7	17	0.1	0.7	0.2	44	0.11	0.063	23
1220769	Soil	1.0	15.4	12.9	44	<0.1	15.4	7.0	212	2.51	13.6	2.5	5.2	9	0.1	0.8	0.1	44	0.08	0.020	14
1220770	Soil	0.7	10.4	17.1	42	<0.1	12.1	4.8	178	1.86	7.6	1.2	1.2	12	<0.1	0.7	0.1	31	0.09	0.036	17
1220771	Soil	0.8	18.6	19.2	64	<0.1	18.0	8.0	305	2.40	9.7	2.7	3.9	14	0.2	1.0	0.1	38	0.14	0.049	20
1220772	Soil	0.9	7.5	14.1	28	<0.1	9.5	3.0	92	1.82	8.2	3.0	0.7	9	<0.1	0.5	0.1	37	0.08	0.033	11
1220773	Soil	1.0	17.1	30.8	65	<0.1	19.0	6.2	163	2.22	8.9	3.9	2.4	10	0.3	1.0	0.3	37	0.09	0.042	17
1220774	Soil	1.0	23.0	34.3	75	0.2	21.4	7.8	230	2.42	11.9	4.5	5.6	18	0.2	2.2	0.3	32	0.17	0.057	20
1220775	Soil	0.8	15.3	15.5	63	0.2	17.9	6.8	146	2.09	7.1	3.1	3.3	14	0.2	0.7	0.2	35	0.16	0.067	15
1220776	Soil	0.6	15.6	15.4	54	0.2	15.2	5.8	123	1.95	7.3	3.7	3.4	13	0.1	0.8	0.2	30	0.15	0.059	16
1220777	Soil	0.8	17.3	17.9	49	<0.1	16.1	8.7	278	2.30	8.7	7.7	3.1	13	0.2	0.8	0.2	33	0.13	0.058	21
1220778	Soil	3.1	17.0	20.4	53	0.3	18.3	7.4	228	2.26	15.8	3.2	3.5	27	0.2	2.8	0.2	33	0.12	0.084	17

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1221868	Soil	20	0.32	186	0.022	<1	1.31	0.006	0.05	0.2	0.04	1.5	0.1	<0.05	5	0.7	<0.2
1221869	Soil	20	0.82	196	0.031	<1	1.32	0.009	0.10	0.2	0.03	2.0	0.2	<0.05	5	0.7	<0.2
1220751	Soil	17	0.62	104	0.004	4	0.72	0.004	0.07	<0.1	<0.01	2.2	<0.1	<0.05	2	0.8	<0.2
1220752	Soil	20	0.90	105	0.008	1	1.19	0.006	0.06	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1220753	Soil	24	1.12	130	0.007	3	1.34	0.007	0.07	<0.1	0.02	2.8	<0.1	<0.05	4	1.0	<0.2
1220754	Soil	41	0.64	241	0.017	2	1.26	0.006	0.07	<0.1	0.03	4.2	0.1	<0.05	4	2.3	<0.2
1220755	Soil	26	0.68	167	0.013	<1	1.12	0.004	0.07	<0.1	0.03	3.2	0.1	<0.05	4	1.5	<0.2
1220756	Soil	12	0.21	50	0.003	<1	0.63	0.004	0.05	<0.1	0.01	1.4	<0.1	<0.05	3	0.7	<0.2
1220757	Soil	13	0.23	90	0.016	<1	0.61	0.004	0.04	0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1220758	Soil	20	0.36	88	0.018	1	1.20	0.005	0.04	0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
1220759	Soil	21	0.28	107	0.017	2	1.26	0.015	0.04	0.2	0.07	1.1	<0.1	<0.05	5	0.7	<0.2
1220760	Soil	19	0.30	82	0.021	<1	1.06	0.005	0.05	0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
1220761	Soil	20	0.33	69	0.026	<1	1.05	0.005	0.04	0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1220762	Soil	16	0.23	49	0.021	<1	0.87	0.006	0.04	0.2	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
1220763	Soil	18	0.28	103	0.016	2	1.24	0.005	0.04	<0.1	0.05	2.0	<0.1	<0.05	3	<0.5	<0.2
1220764	Soil	20	0.39	129	0.029	<1	1.22	0.006	0.05	0.2	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
1220765	Soil	22	0.39	252	0.029	2	1.11	0.008	0.05	0.2	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
1220766	Soil	24	0.33	88	0.034	<1	1.76	0.007	0.04	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
1220767	Soil	21	0.36	127	0.031	<1	1.31	0.006	0.04	0.2	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
1220768	Soil	28	0.17	105	0.009	1	1.00	0.004	0.04	0.2	0.06	1.0	0.1	<0.05	5	<0.5	<0.2
1220769	Soil	27	0.39	119	0.037	<1	1.70	0.007	0.04	0.2	0.05	3.0	0.1	<0.05	4	0.6	<0.2
1220770	Soil	18	0.21	73	0.016	<1	1.15	0.005	0.04	0.1	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
1220771	Soil	23	0.35	124	0.031	1	1.30	0.008	0.05	0.2	0.04	2.3	0.1	<0.05	4	<0.5	<0.2
1220772	Soil	19	0.22	77	0.021	<1	1.14	0.005	0.04	0.2	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
1220773	Soil	20	0.31	116	0.026	2	1.11	0.006	0.04	0.2	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
1220774	Soil	20	0.34	158	0.031	2	0.97	0.007	0.05	0.2	0.03	2.0	0.1	<0.05	3	<0.5	<0.2
1220775	Soil	21	0.35	229	0.027	2	1.16	0.006	0.04	0.2	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
1220776	Soil	18	0.29	157	0.022	2	0.96	0.005	0.04	0.2	0.05	1.4	0.1	<0.05	3	<0.5	<0.2
1220777	Soil	18	0.26	111	0.022	2	0.93	0.005	0.04	0.2	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
1220778	Soil	19	0.30	98	0.024	2	0.89	0.006	0.05	0.2	0.06	1.5	0.2	<0.05	3	0.7	<0.2

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Project: JO
Report Date: November 02, 2011

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		Method	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
1220779	Soil		6.9	24.1	28.0	62	0.5	9.0	2.4	65	2.18	14.4	2.5	2.0	21	<0.1	3.3	0.4	32	0.03	0.103	19
1220780	Soil		18.7	62.0	41.0	87	0.5	7.6	2.4	54	3.60	26.0	2.4	2.8	37	<0.1	9.1	0.5	21	0.02	0.132	39
1220781	Soil		2.3	22.1	15.8	58	0.4	15.4	6.8	222	2.08	6.6	2.0	1.2	23	0.3	1.3	0.2	31	0.19	0.084	16
1220782	Soil		1.1	14.8	10.4	41	0.3	10.9	5.6	143	1.61	7.1	2.9	0.7	14	0.3	0.5	0.2	29	0.15	0.063	13
1220783	Soil		0.6	23.0	71.5	118	0.5	24.2	14.3	527	2.89	5.0	2.6	6.8	26	0.5	1.0	0.3	20	0.22	0.053	30
1220784	Soil		0.7	11.1	27.5	57	0.2	14.3	9.5	339	2.35	7.8	9.9	1.7	13	0.1	0.7	0.3	29	0.11	0.055	18
1220785	Soil		0.7	32.9	48.6	120	0.2	38.6	27.0	1114	3.93	3.7	2.9	11.7	25	0.2	1.0	0.4	30	0.20	0.060	32
1220786	Soil		1.7	26.1	36.4	64	0.2	19.2	8.3	257	2.75	10.1	1.3	1.4	9	0.1	2.0	0.4	33	0.04	0.072	29
1220787	Soil		0.5	14.7	26.5	55	0.2	11.2	6.4	447	1.88	6.6	1.8	4.0	30	0.1	1.1	0.3	15	0.35	0.042	17
1220788	Soil		0.6	24.0	28.5	60	0.2	19.9	11.1	585	2.41	5.7	2.8	8.2	33	0.1	3.2	0.4	12	0.63	0.053	28
1220789	Soil		0.7	23.9	28.3	68	0.2	24.2	11.6	353	3.14	8.7	2.0	11.3	31	<0.1	2.2	0.4	14	0.44	0.050	39
1220790	Soil		0.7	16.8	30.5	62	<0.1	20.5	12.8	808	2.75	6.0	1.3	6.3	20	0.1	2.1	0.3	17	0.17	0.055	20
1220791	Soil		0.7	16.8	23.7	53	<0.1	17.1	9.8	432	2.35	7.3	1.6	4.8	19	<0.1	0.9	0.3	24	0.16	0.052	20
1220792	Soil		0.7	16.3	32.4	76	0.2	16.0	8.3	581	2.05	6.6	2.4	3.0	35	0.2	0.9	0.3	12	1.08	0.059	29
1220793	Soil		0.8	16.7	23.1	55	<0.1	19.8	9.6	377	2.61	8.7	1.5	3.6	18	<0.1	1.0	0.3	31	0.25	0.046	28
1220794	Soil		0.7	11.9	16.1	40	<0.1	12.7	5.0	159	2.00	7.6	3.0	0.7	10	<0.1	0.5	0.2	34	0.09	0.052	16
1220795	Soil		0.8	27.0	21.5	70	<0.1	24.0	12.0	571	2.73	153.9	35.7	6.9	36	0.3	2.2	1.7	38	0.34	0.064	22
1220796	Soil		0.9	19.7	31.5	65	0.2	19.9	9.8	342	2.72	146.2	27.3	5.4	19	0.5	1.9	1.9	41	0.17	0.055	23
1220797	Soil		0.7	26.2	18.5	60	0.1	25.3	11.6	463	2.77	89.2	24.2	9.3	19	0.2	1.9	1.0	39	0.23	0.051	26
1220798	Soil		1.1	14.2	14.9	42	<0.1	15.5	8.3	254	2.68	50.3	85.5	4.9	11	0.1	0.9	0.8	49	0.11	0.040	16
1220799	Soil		0.8	16.7	12.6	50	<0.1	16.6	7.6	250	2.27	43.4	6.9	2.6	16	0.2	0.8	0.5	43	0.17	0.044	17
1220800	Soil		0.7	20.3	11.1	56	0.1	19.8	8.4	311	2.20	31.1	6.4	3.1	27	0.1	0.9	0.4	42	0.47	0.058	16
1220801	Soil		0.9	25.7	37.3	73	0.2	21.5	10.1	433	4.66	26.8	5.7	9.1	5	0.2	3.7	0.6	22	0.03	0.044	35
1220802	Soil		1.0	26.9	31.2	64	0.2	16.2	12.7	905	2.98	153.7	5.9	5.8	10	0.2	4.3	0.7	24	0.04	0.049	36
1220803	Soil		1.0	14.7	22.3	50	<0.1	16.1	9.1	375	2.72	12.8	2.4	5.9	10	0.1	1.2	0.3	40	0.08	0.040	19
1220804	Soil		0.9	29.0	26.2	86	0.1	23.2	12.3	535	2.59	20.0	2.3	4.6	14	0.3	1.2	0.4	33	0.12	0.065	23
1220805	Soil		0.9	10.9	28.6	47	<0.1	10.8	5.8	230	2.20	14.6	2.0	3.6	8	0.2	2.1	0.3	30	0.06	0.040	23
1220806	Soil		0.8	10.2	42.8	35	0.1	8.5	3.2	90	1.45	7.3	2.6	1.2	6	<0.1	1.8	0.3	28	0.04	0.029	19
1220807	Soil		1.0	6.5	23.8	23	<0.1	6.7	2.8	83	1.88	10.1	2.3	0.3	6	<0.1	0.7	0.2	42	0.04	0.046	12
1220808	Soil		1.0	14.4	32.0	53	<0.1	14.0	6.7	220	2.36	31.3	5.5	6.1	8	0.2	3.2	0.2	34	0.06	0.026	26

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1220779	Soil	14	0.07	47	0.015	2	0.58	0.004	0.03	0.2	0.05	0.7	0.2	<0.05	3	1.8	<0.2
1220780	Soil	11	0.02	75	0.003	2	0.38	0.004	0.04	0.2	0.04	0.5	0.2	<0.05	2	4.5	<0.2
1220781	Soil	18	0.36	260	0.018	2	0.96	0.010	0.03	0.2	0.07	1.4	0.1	<0.05	3	0.6	<0.2
1220782	Soil	17	0.26	180	0.016	1	0.87	0.005	0.03	0.2	0.06	0.9	0.1	<0.05	3	<0.5	<0.2
1220783	Soil	22	0.41	122	0.013	2	0.98	0.004	0.05	0.1	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1220784	Soil	19	0.32	122	0.015	2	1.07	0.006	0.04	0.2	0.04	1.2	0.1	<0.05	4	<0.5	<0.2
1220785	Soil	36	0.82	111	0.034	1	1.44	0.004	0.07	<0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
1220786	Soil	21	0.12	45	0.010	1	0.68	0.006	0.04	0.2	0.04	0.9	0.2	<0.05	4	<0.5	<0.2
1220787	Soil	9	0.12	190	0.004	2	0.79	0.005	0.10	<0.1	0.04	1.0	0.1	<0.05	2	<0.5	<0.2
1220788	Soil	9	0.12	61	0.006	1	0.47	0.004	0.06	<0.1	0.03	1.6	<0.1	0.08	2	<0.5	<0.2
1220789	Soil	11	0.17	82	0.008	2	0.65	0.005	0.06	<0.1	0.03	2.0	<0.1	0.07	2	<0.5	<0.2
1220790	Soil	12	0.14	92	0.005	1	0.68	0.005	0.07	<0.1	0.02	1.2	0.1	<0.05	2	<0.5	<0.2
1220791	Soil	15	0.22	124	0.014	1	0.87	0.005	0.06	0.1	0.02	1.5	0.1	<0.05	3	<0.5	<0.2
1220792	Soil	8	0.07	106	0.008	2	0.52	0.007	0.04	<0.1	0.04	1.2	<0.1	0.11	2	<0.5	<0.2
1220793	Soil	16	0.27	89	0.017	2	0.96	0.005	0.05	0.2	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
1220794	Soil	19	0.26	84	0.016	<1	1.16	0.005	0.04	0.2	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1220795	Soil	31	0.56	149	0.066	2	1.29	0.023	0.13	2.0	0.01	2.4	0.2	<0.05	4	<0.5	<0.2
1220796	Soil	32	0.49	116	0.052	2	1.40	0.010	0.06	1.7	0.03	2.1	0.2	<0.05	5	<0.5	<0.2
1220797	Soil	31	0.52	166	0.069	2	1.88	0.020	0.15	1.4	0.03	2.8	0.3	<0.05	4	<0.5	<0.2
1220798	Soil	28	0.40	91	0.056	1	1.78	0.012	0.10	1.2	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
1220799	Soil	29	0.43	133	0.054	2	1.54	0.012	0.08	0.6	0.03	1.9	0.2	<0.05	5	<0.5	<0.2
1220800	Soil	25	0.46	241	0.047	2	1.41	0.014	0.06	0.6	0.04	2.3	0.2	0.06	4	<0.5	<0.2
1220801	Soil	27	0.56	36	0.008	1	1.83	0.004	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
1220802	Soil	13	0.15	44	0.013	1	0.76	0.004	0.04	<0.1	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
1220803	Soil	23	0.35	96	0.028	1	1.52	0.005	0.04	0.1	0.04	2.2	0.1	<0.05	4	<0.5	<0.2
1220804	Soil	19	0.35	74	0.026	1	1.16	0.005	0.05	0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1220805	Soil	14	0.18	76	0.012	1	1.03	0.004	0.05	0.1	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1220806	Soil	12	0.12	50	0.011	1	0.92	0.004	0.04	0.1	0.04	0.8	0.2	<0.05	4	<0.5	<0.2
1220807	Soil	16	0.15	51	0.014	1	0.97	0.004	0.04	0.1	0.05	0.6	0.1	<0.05	5	<0.5	<0.2
1220808	Soil	16	0.22	63	0.020	1	1.02	0.004	0.05	0.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

		Method	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
1220809	Soil		0.9	23.0	48.0	103	0.2	19.3	10.0	412	2.68	29.2	4.2	5.7	6	0.9	7.0	0.5	21	0.05	0.042	40
1220810	Soil		0.8	23.5	30.1	53	0.1	21.5	9.4	286	2.60	11.7	2.9	3.5	8	0.3	3.0	0.4	25	0.04	0.044	31
1220811	Soil		1.1	24.8	24.7	55	<0.1	23.6	10.3	211	2.63	10.2	11.3	7.6	10	0.2	2.4	0.4	25	0.04	0.027	33
1220812	Soil		1.1	16.2	20.4	43	<0.1	16.7	6.5	205	2.19	9.6	3.4	2.3	8	0.1	1.2	0.4	31	0.05	0.036	27
1220813	Soil		0.7	31.4	22.6	70	0.1	31.8	13.8	171	2.79	10.7	7.1	13.7	9	<0.1	1.0	0.3	15	<0.01	0.028	57
1220814	Soil		0.8	19.9	16.3	44	<0.1	16.4	5.5	130	2.27	12.2	3.9	2.4	10	<0.1	0.7	0.3	35	0.07	0.040	21
1220815	Soil		1.2	20.7	21.3	47	<0.1	18.0	5.7	152	2.25	8.3	6.0	2.8	15	0.1	0.8	0.3	40	0.10	0.051	25
1220816	Soil		1.0	12.8	13.1	34	<0.1	14.2	4.5	107	1.71	9.0	2.9	1.1	8	<0.1	0.6	0.2	29	0.05	0.035	19
1220817	Soil		1.0	12.5	15.8	32	0.3	11.3	4.0	110	1.83	24.0	4.2	0.5	11	0.1	0.6	0.3	32	0.06	0.057	19
1220818	Soil		1.0	22.2	17.6	39	0.2	16.8	4.9	124	2.02	20.7	3.9	1.0	12	0.2	0.7	0.3	34	0.09	0.046	19
1220819	Soil		1.0	15.1	16.2	39	<0.1	11.5	4.9	155	2.29	13.7	2.5	2.2	9	0.2	0.6	0.3	34	0.06	0.040	15
1220820	Soil		1.1	21.1	17.7	62	<0.1	23.3	11.5	337	2.67	28.0	3.5	6.3	10	0.2	0.8	0.3	36	0.08	0.047	20
1220821	Soil		1.1	18.6	18.4	51	<0.1	16.8	6.8	213	2.48	24.8	1.8	2.7	10	0.2	0.7	0.3	37	0.06	0.044	20
1220822	Soil		0.8	10.2	14.7	32	<0.1	10.5	4.0	110	1.92	12.3	1.5	1.9	8	<0.1	0.4	0.2	33	0.05	0.037	17
1220823	Soil		1.0	14.0	15.9	39	<0.1	13.0	4.7	132	2.22	14.7	2.0	1.0	9	0.1	0.8	0.3	35	0.06	0.040	16
1220824	Soil		1.1	14.6	14.4	46	<0.1	13.6	5.2	179	2.37	18.0	3.3	1.2	10	0.2	0.7	0.3	41	0.07	0.050	15
1220825	Soil		1.0	20.4	18.9	51	0.1	19.0	6.7	189	2.45	25.4	3.7	2.4	10	<0.1	0.7	0.4	31	0.06	0.046	23
1220826	Soil		1.1	13.0	13.0	40	<0.1	13.5	5.4	167	2.53	36.5	10.6	1.6	9	<0.1	0.7	0.5	41	0.05	0.033	19
1220827	Soil		0.9	8.1	11.5	25	<0.1	6.8	2.9	102	1.64	33.8	17.3	1.1	7	<0.1	0.5	0.6	47	0.05	0.030	11
1220828	Soil		1.2	14.9	14.0	41	<0.1	12.9	4.8	154	2.42	24.2	2.6	0.7	9	<0.1	0.6	0.4	45	0.07	0.079	14
1220829	Soil		1.5	16.6	14.0	41	<0.1	14.9	5.7	198	2.80	67.2	7.6	1.3	9	<0.1	0.7	1.5	62	0.05	0.044	12
1220830	Soil		0.8	21.1	13.6	49	<0.1	18.6	6.7	183	2.11	22.9	2.2	3.8	11	0.1	0.6	0.3	26	0.12	0.054	23
1220831	Soil		1.1	21.4	19.4	53	0.1	17.2	7.2	233	2.49	20.4	3.3	2.1	15	0.1	0.7	0.3	33	0.08	0.064	25
1220832	Soil		0.8	20.5	11.5	41	<0.1	17.7	6.1	166	2.15	82.2	8.5	1.5	9	<0.1	0.7	1.0	32	0.08	0.051	15
1220833	Soil		0.8	16.2	11.8	41	<0.1	14.8	5.5	145	2.01	12.3	2.1	3.4	11	<0.1	0.6	0.2	30	0.10	0.046	18
1220834	Soil		0.9	11.5	14.6	33	<0.1	11.5	4.1	110	1.76	16.6	2.3	1.4	9	<0.1	0.5	0.3	29	0.06	0.032	24
1220835	Soil		0.6	8.9	12.1	31	<0.1	9.6	3.1	91	1.33	7.5	2.1	0.7	9	<0.1	0.4	0.1	28	0.09	0.035	13
1220836	Soil		0.8	20.1	13.9	52	<0.1	16.4	7.2	203	2.34	15.9	2.6	3.0	11	<0.1	0.5	0.3	31	0.08	0.052	24
1220837	Soil		0.9	19.8	14.9	50	<0.1	16.4	7.1	222	2.35	24.7	3.1	3.6	10	<0.1	0.7	0.3	32	0.07	0.049	23
1220838	Soil		0.9	12.4	18.8	36	<0.1	11.1	4.1	124	2.19	25.6	4.8	1.0	9	<0.1	0.9	0.4	38	0.06	0.047	18

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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
1220809	Soil	14	0.16	65	0.014	1	0.69	0.003	0.06	0.1	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1220810	Soil	17	0.14	81	0.012	2	0.74	0.004	0.04	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1220811	Soil	16	0.14	69	0.014	<1	0.72	0.004	0.04	0.1	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2
1220812	Soil	16	0.12	44	0.018	1	0.64	0.005	0.03	0.1	0.03	1.0	0.2	<0.05	4	<0.5	<0.2
1220813	Soil	14	0.14	45	0.008	<1	0.57	0.002	0.04	0.2	0.05	1.4	0.3	<0.05	2	<0.5	<0.2
1220814	Soil	25	0.30	84	0.022	1	1.17	0.004	0.04	0.2	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
1220815	Soil	33	0.28	84	0.026	<1	0.95	0.005	0.06	0.1	0.04	1.8	0.2	<0.05	4	<0.5	<0.2
1220816	Soil	21	0.25	66	0.016	1	0.84	0.005	0.04	0.1	0.04	0.9	<0.1	<0.05	4	<0.5	<0.2
1220817	Soil	19	0.24	96	0.014	1	0.99	0.006	0.04	0.2	0.07	0.7	0.1	<0.05	4	<0.5	<0.2
1220818	Soil	25	0.36	70	0.026	1	1.06	0.006	0.04	0.2	0.06	0.8	0.1	<0.05	4	<0.5	<0.2
1220819	Soil	20	0.28	52	0.022	1	1.14	0.004	0.03	0.2	0.04	1.5	<0.1	<0.05	4	<0.5	<0.2
1220820	Soil	22	0.34	83	0.027	1	1.50	0.005	0.05	0.2	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
1220821	Soil	22	0.34	68	0.027	1	1.26	0.005	0.04	0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1220822	Soil	18	0.22	46	0.026	1	0.99	0.004	0.04	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1220823	Soil	20	0.27	60	0.022	1	1.19	0.005	0.04	0.2	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
1220824	Soil	25	0.33	69	0.025	<1	1.37	0.005	0.04	0.2	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
1220825	Soil	18	0.29	72	0.020	<1	1.03	0.004	0.04	0.2	0.04	1.2	<0.1	<0.05	3	<0.5	<0.2
1220826	Soil	34	0.29	49	0.030	1	1.11	0.005	0.05	0.3	0.04	1.2	0.1	<0.05	5	<0.5	<0.2
1220827	Soil	17	0.16	39	0.046	<1	0.73	0.004	0.04	0.6	0.03	1.1	0.1	<0.05	6	<0.5	<0.2
1220828	Soil	25	0.33	67	0.026	<1	1.46	0.005	0.04	0.3	0.04	1.3	0.1	<0.05	5	0.6	<0.2
1220829	Soil	58	0.48	63	0.079	1	1.52	0.008	0.09	0.9	0.04	2.0	0.2	<0.05	7	<0.5	<0.2
1220830	Soil	19	0.32	60	0.027	<1	1.10	0.004	0.04	0.2	0.03	1.4	<0.1	<0.05	3	0.7	<0.2
1220831	Soil	21	0.34	57	0.021	1	1.25	0.004	0.04	0.2	0.05	1.5	<0.1	<0.05	4	0.6	<0.2
1220832	Soil	25	0.27	74	0.029	1	1.04	0.005	0.05	1.4	0.03	1.2	0.1	<0.05	3	<0.5	<0.2
1220833	Soil	21	0.34	68	0.026	<1	1.24	0.004	0.04	0.2	0.04	1.6	<0.1	<0.05	3	<0.5	<0.2
1220834	Soil	18	0.22	45	0.020	1	0.80	0.004	0.04	0.1	0.04	0.9	0.1	<0.05	3	<0.5	<0.2
1220835	Soil	17	0.23	47	0.025	1	0.77	0.004	0.04	0.1	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1220836	Soil	24	0.33	75	0.025	<1	1.25	0.004	0.04	0.3	0.04	1.6	0.1	<0.05	4	0.6	<0.2
1220837	Soil	27	0.35	62	0.032	<1	1.14	0.004	0.05	0.3	0.06	1.7	0.2	<0.05	4	0.8	<0.2
1220838	Soil	25	0.27	51	0.025	1	1.09	0.005	0.05	0.5	0.03	1.1	0.1	<0.05	4	0.6	<0.2

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

		Method	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
1220839	Soil		0.7	19.8	26.7	53	<0.1	19.5	9.3	298	2.67	30.2	5.0	6.2	10	0.2	3.5	0.4	38	0.09	0.038	24
1220840	Soil		0.9	14.7	43.2	58	0.3	14.4	6.6	225	2.25	40.0	7.1	1.7	11	0.1	3.3	0.7	37	0.10	0.059	20
1220841	Soil		0.9	15.7	27.5	55	<0.1	16.2	6.9	242	2.31	34.1	4.9	2.5	10	<0.1	1.5	0.6	38	0.08	0.039	21
1220842	Soil		0.8	17.9	25.5	59	<0.1	20.4	7.8	180	2.36	47.2	7.0	4.5	11	<0.1	1.6	0.7	35	0.09	0.035	20
1220843	Soil		0.8	22.8	26.7	75	0.2	26.2	12.5	344	2.61	56.2	9.7	6.3	16	<0.1	1.2	0.7	38	0.13	0.042	22
1220844	Soil		0.8	23.0	26.7	70	0.2	22.9	11.3	377	2.45	51.6	12.7	5.1	15	0.1	0.9	0.7	35	0.16	0.047	25
1220845	Soil		0.8	17.3	26.4	68	0.1	18.0	8.3	360	2.15	22.5	11.0	5.0	12	0.3	1.2	0.5	31	0.10	0.039	19
1220846	Soil		0.9	14.9	24.1	60	<0.1	15.8	7.4	287	2.17	23.0	9.9	4.5	10	0.3	1.9	0.5	26	0.10	0.041	23
1220847	Soil		0.7	14.8	52.8	46	0.2	11.9	4.3	114	1.79	66.6	18.1	3.4	8	0.2	2.6	0.6	22	0.05	0.038	20
1220848	Soil		0.6	24.8	57.7	92	0.4	19.1	9.9	593	2.38	34.4	11.2	8.5	30	0.8	4.9	0.6	18	0.52	0.064	28
1220849	Soil		0.6	30.7	171.6	113	0.9	19.0	10.5	612	2.35	65.2	12.0	9.7	34	0.7	15.2	0.6	18	0.43	0.050	25
1220850	Soil		0.4	25.9	204.1	155	1.3	15.4	8.0	354	2.27	87.9	10.5	8.2	37	1.6	17.1	0.6	13	0.65	0.046	26
1221251	Soil		4.6	86.9	15.3	147	0.4	129.8	49.3	1931	8.32	7.4	1.8	3.5	158	0.8	2.9	0.1	70	0.71	0.266	33
1221252	Soil		7.2	77.4	21.1	181	0.9	90.2	42.5	1663	5.85	13.5	3.4	4.0	542	2.1	5.3	0.2	98	4.17	0.216	32
1221253	Soil		2.7	100.1	19.9	135	0.4	106.4	62.6	1858	9.65	10.1	1.9	2.4	263	0.7	7.5	<0.1	82	3.27	0.217	22
1221254	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.
1221255	Soil		6.9	491.0	27.9	651	4.0	155.7	8.7	265	2.78	27.7	4.7	1.5	160	25.2	8.4	0.2	218	0.73	0.389	21
1221256	Soil		6.5	65.0	45.9	131	1.1	51.3	28.0	845	6.10	16.9	6.7	2.1	182	1.2	10.2	0.2	85	0.69	0.185	28
1221257 JO-416	Soil		0.6	13.3	20.0	48	<0.1	16.6	8.9	423	2.30	6.6	2.7	2.7	72	0.2	1.2	0.2	29	1.60	0.085	14
1221258	Soil		0.5	12.3	15.1	41	<0.1	19.3	9.4	243	2.50	7.6	2.8	2.7	19	<0.1	0.4	0.2	37	0.27	0.077	19
1221259	Soil		0.6	14.6	17.2	51	<0.1	20.2	10.0	430	2.58	5.0	1.5	7.4	154	0.1	0.7	0.2	15	4.66	0.101	20
1221260	Soil		0.6	8.7	12.9	35	<0.1	14.5	6.0	124	2.11	7.2	3.4	2.6	19	<0.1	0.5	0.2	39	0.28	0.047	14
1221261	Soil		0.2	16.1	13.9	52	<0.1	19.1	9.3	307	2.40	4.6	1.5	3.2	245	0.1	0.5	0.1	19	8.40	0.075	17
1221262	Soil		0.6	25.9	17.5	54	0.1	19.0	10.0	318	2.75	7.0	3.7	3.7	49	0.1	2.2	0.3	22	1.12	0.083	18
1221263	Soil		2.3	51.1	15.2	62	0.3	16.8	5.3	121	2.31	8.8	6.5	1.3	11	0.1	1.6	0.3	47	0.08	0.065	14
1221264	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.
1221265	Soil		4.2	64.0	21.4	100	0.6	24.1	7.7	198	3.55	10.7	7.1	7.4	25	0.3	1.2	0.3	68	0.06	0.052	20
1221266	Soil		2.1	27.8	14.9	75	0.3	20.6	7.9	205	3.05	8.8	25.4	4.4	11	0.3	0.9	0.3	55	0.08	0.055	16
1221267	Soil		1.6	30.9	17.6	62	<0.1	16.4	7.4	268	2.61	8.7	6.1	3.2	14	0.3	1.2	0.3	50	0.10	0.042	15
1221268	Soil		1.8	85.5	16.9	86	0.8	33.1	8.8	205	2.55	10.6	8.8	4.2	19	0.5	1.4	0.2	38	0.16	0.075	12

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1220839	Soil	26	0.32	69	0.044	1	1.17	0.005	0.06	0.4	0.02	1.9	0.1	<0.05	4	<0.5	<0.2
1220840	Soil	30	0.36	98	0.025	2	1.37	0.005	0.06	0.5	0.05	1.8	0.3	<0.05	5	<0.5	<0.2
1220841	Soil	27	0.35	82	0.037	1	1.21	0.005	0.07	0.6	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
1220842	Soil	32	0.41	86	0.041	1	1.26	0.005	0.08	0.8	0.03	2.0	0.2	<0.05	4	<0.5	<0.2
1220843	Soil	41	0.54	141	0.061	1	1.44	0.011	0.13	0.9	0.02	2.5	0.2	<0.05	4	<0.5	<0.2
1220844	Soil	32	0.50	144	0.045	1	1.41	0.008	0.10	0.8	0.03	2.3	0.2	<0.05	4	<0.5	<0.2
1220845	Soil	22	0.40	158	0.024	2	1.22	0.006	0.05	0.5	0.04	2.0	0.1	0.05	4	<0.5	<0.2
1220846	Soil	19	0.30	71	0.026	3	0.90	0.005	0.07	0.5	0.02	1.2	0.1	<0.05	3	<0.5	<0.2
1220847	Soil	14	0.20	67	0.011	<1	0.88	0.005	0.05	0.4	0.04	0.9	0.1	0.06	3	<0.5	<0.2
1220848	Soil	15	0.26	115	0.013	2	0.77	0.008	0.06	0.2	0.04	2.0	<0.1	0.06	2	0.6	<0.2
1220849	Soil	14	0.23	161	0.009	1	0.79	0.010	0.05	0.2	0.05	1.8	0.1	0.06	2	<0.5	<0.2
1220850	Soil	10	0.15	106	0.005	1	0.58	0.004	0.05	<0.1	0.06	1.5	0.1	0.07	2	<0.5	<0.2
1221251	Soil	38	1.36	221	0.009	1	2.51	0.010	0.03	<0.1	0.10	4.5	<0.1	0.11	7	0.9	<0.2
1221252	Soil	36	1.12	158	0.004	2	1.94	0.014	0.03	<0.1	0.10	4.3	0.2	0.19	6	1.8	<0.2
1221253	Soil	44	1.72	222	0.007	3	2.98	0.014	0.03	<0.1	0.05	5.4	<0.1	0.31	9	1.4	<0.2
1221254	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.
1221255	Soil	26	0.16	249	0.006	2	1.32	0.007	0.05	0.1	0.71	4.5	1.2	0.13	1	11.9	<0.2
1221256	Soil	42	1.13	285	0.009	116	2.30	0.014	0.04	<0.1	0.07	3.3	0.2	0.30	7	2.0	<0.2
1221257 JO-416	Soil	21	0.86	227	0.011	1	1.50	0.007	0.03	0.1	0.05	2.4	<0.1	0.08	4	0.6	<0.2
1221258	Soil	25	0.79	194	0.016	1	2.03	0.007	0.03	0.1	0.03	2.7	0.1	<0.05	5	0.5	<0.2
1221259	Soil	18	1.20	144	0.006	1	1.25	0.004	0.04	<0.1	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2
1221260	Soil	22	0.68	189	0.018	1	1.65	0.007	0.03	0.1	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
1221261	Soil	18	0.67	182	0.006	<1	1.05	0.007	0.04	<0.1	0.03	3.2	<0.1	0.06	3	<0.5	<0.2
1221262	Soil	15	0.47	248	0.004	1	1.08	0.007	0.04	<0.1	0.04	2.1	0.1	<0.05	3	0.9	<0.2
1221263	Soil	18	0.36	91	0.016	<1	1.01	0.006	0.06	0.1	0.04	0.9	0.1	0.05	5	1.3	<0.2
1221264	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.
1221265	Soil	34	0.94	275	0.013	<1	2.53	0.007	0.11	0.1	0.03	2.3	0.2	<0.05	7	1.9	<0.2
1221266	Soil	27	0.47	136	0.025	<1	1.92	0.006	0.06	0.2	0.04	1.9	0.1	<0.05	6	0.8	<0.2
1221267	Soil	23	0.51	458	0.024	<1	1.46	0.006	0.07	0.1	0.02	2.1	0.1	<0.05	5	1.2	<0.2
1221268	Soil	22	0.43	194	0.025	1	1.35	0.006	0.04	0.1	0.08	2.0	0.1	<0.05	3	1.9	<0.2

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Project: JO
Report Date: November 02, 2011

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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
1221269	Soil	3.1	97.4	26.6	95	0.8	27.2	5.3	161	2.29	11.7	6.5	1.3	14	0.4	3.0	0.2	57	0.11	0.090	11
1221270	Soil	1.9	20.1	14.3	68	<0.1	26.3	15.6	607	3.27	13.7	6.6	3.4	18	0.2	1.4	0.2	40	0.19	0.092	23
1221271	Soil	1.5	11.9	14.9	44	<0.1	16.2	8.3	236	2.84	8.7	1.3	2.3	13	<0.1	0.6	0.2	55	0.12	0.047	20
1221272	Soil	1.5	17.2	51.3	48	0.2	15.4	7.5	566	2.11	4.2	2.0	2.7	97	0.4	0.7	0.2	29	0.95	0.063	23
1221273	Soil	2.5	24.3	25.0	94	<0.1	27.6	14.1	599	3.50	13.4	1.3	3.9	21	0.4	3.0	0.2	42	0.18	0.066	26
1221274	Soil	1.7	93.8	46.3	36	2.1	18.7	2.9	183	0.67	2.1	5.5	0.5	310	0.5	2.8	0.2	10	3.54	0.074	6
1221275	Soil	0.8	31.4	6.2	19	0.2	12.1	2.4	198	0.43	1.0	3.5	0.2	152	0.6	1.7	<0.1	5	3.16	0.051	3
1221276	Soil	3.4	50.5	24.9	119	0.6	23.7	10.4	380	2.22	9.9	9.2	3.1	103	0.6	3.0	0.3	43	1.58	0.094	13
1221277	Soil	1.3	45.8	14.1	68	0.3	21.6	7.0	226	1.93	5.4	3.9	3.0	127	0.3	1.9	0.2	36	2.39	0.082	17
1221278	Soil	1.0	34.9	20.0	77	0.2	26.0	9.0	187	2.69	5.8	4.7	5.5	87	0.2	1.6	0.2	25	2.22	0.067	20
1221279	Soil	0.7	23.1	15.3	61	0.1	19.4	8.7	240	2.20	4.2	2.0	3.8	268	0.2	1.3	0.1	14	10.39	0.098	12
1221280	Soil	0.7	20.2	14.7	64	0.1	14.5	5.3	216	1.43	2.9	2.0	1.0	111	0.3	1.4	0.1	10	3.18	0.084	7
1221281	Soil	0.7	23.9	12.4	61	0.1	19.5	9.2	267	2.31	8.1	4.3	2.4	147	0.2	1.7	0.4	13	5.47	0.104	14
1221282	Soil	0.7	22.5	12.1	56	<0.1	18.5	9.4	287	2.15	6.8	4.8	2.5	198	0.2	1.3	0.2	13	6.74	0.087	13
1221283	Soil	0.8	27.7	11.3	69	0.1	21.4	9.0	326	2.17	5.6	5.1	2.5	152	0.2	1.5	0.2	16	4.78	0.098	14
1221284	Soil	0.8	29.6	15.2	75	0.1	22.8	8.2	264	2.21	5.8	5.3	2.3	85	0.2	1.5	0.2	20	2.25	0.096	15
1221285	Soil	0.9	39.6	13.7	81	0.2	25.0	7.7	185	2.32	6.3	6.3	3.3	61	0.3	1.6	0.2	28	1.47	0.098	19
1221286	Soil	0.7	29.4	12.5	80	0.1	21.5	8.3	291	2.01	5.3	5.5	2.6	60	0.3	1.2	0.2	27	1.52	0.082	16
1221287	Soil	0.9	35.0	12.3	76	0.2	22.6	8.4	258	2.19	8.2	6.1	2.5	61	0.4	1.8	0.2	28	1.51	0.087	16
1221288	Soil	0.8	39.5	11.5	61	0.2	22.3	6.9	254	1.83	6.0	5.5	1.1	89	0.2	1.8	0.2	22	2.42	0.082	12
1221289	Soil	0.5	27.3	9.6	74	0.2	19.5	7.4	339	1.79	4.5	5.6	1.3	69	0.3	1.3	0.2	24	1.78	0.079	13
1221290	Soil	1.2	24.6	11.2	68	0.2	21.1	14.7	1532	2.03	6.1	5.4	1.2	92	0.5	1.2	0.1	25	1.77	0.082	11
1221501	Soil	3.9	12.0	20.7	37	0.6	11.6	4.6	198	2.10	12.6	5.0	1.6	22	0.2	3.1	0.1	30	0.12	0.084	37
1221502	Soil	2.4	10.3	16.3	38	0.2	11.4	5.3	225	2.41	11.4	2.9	1.3	11	0.1	1.4	0.2	44	0.09	0.064	21
1221503	Soil	4.2	14.2	29.2	39	0.5	12.1	5.3	207	2.32	13.0	3.8	1.7	39	0.1	4.0	0.2	47	0.12	0.110	20
1221504	Soil	4.7	11.0	29.2	22	0.4	7.5	2.7	110	1.84	14.8	2.9	0.4	47	<0.1	3.5	0.2	37	0.07	0.140	17
1221505	Soil	2.1	10.6	18.4	30	0.2	9.2	3.4	91	2.27	11.2	3.5	0.3	23	<0.1	2.0	0.2	44	0.09	0.089	13
1221506	Soil	6.5	21.1	52.9	15	1.5	3.8	1.0	70	3.20	36.7	3.6	1.8	45	<0.1	7.0	0.4	60	0.02	0.153	49
1221507	Soil	7.9	33.7	33.3	60	1.0	16.0	4.3	120	2.68	18.8	3.6	0.5	50	0.1	5.8	0.3	48	0.09	0.182	25
1221508	Soil	9.1	15.4	55.3	16	2.8	3.5	1.5	72	2.52	30.3	3.5	6.5	84	<0.1	8.4	0.3	24	0.02	0.167	49

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1221269	Soil	20	0.24	226	0.018	2	1.36	0.006	0.06	0.1	0.05	1.6	0.2	<0.05	5	2.8	<0.2
1221270	Soil	29	0.56	185	0.025	1	1.48	0.008	0.05	0.2	0.03	2.0	<0.1	<0.05	4	1.0	<0.2
1221271	Soil	26	0.44	253	0.015	<1	1.57	0.009	0.03	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
1221272	Soil	21	0.55	483	0.014	2	1.17	0.012	0.07	<0.1	0.04	1.4	<0.1	0.10	4	1.0	<0.2
1221273	Soil	27	0.54	433	0.007	<1	1.48	0.006	0.09	<0.1	0.02	1.8	<0.1	<0.05	5	1.0	<0.2
1221274	Soil	8	0.44	1183	0.009	6	0.35	0.013	0.04	<0.1	0.15	1.0	<0.1	0.36	<1	6.4	<0.2
1221275	Soil	5	0.22	624	0.006	5	0.29	0.012	0.01	<0.1	0.07	0.5	<0.1	0.18	<1	1.7	<0.2
1221276	Soil	31	0.77	466	0.041	2	1.06	0.009	0.09	0.1	0.10	2.8	0.2	0.09	4	2.0	<0.2
1221277	Soil	32	0.72	491	0.060	2	1.04	0.009	0.07	0.2	0.07	2.7	0.2	0.12	3	1.1	<0.2
1221278	Soil	28	1.76	205	0.013	2	1.71	0.006	0.07	<0.1	0.06	3.4	0.1	<0.05	5	0.6	<0.2
1221279	Soil	17	0.95	141	0.007	<1	0.88	0.006	0.04	<0.1	0.04	2.5	<0.1	<0.05	2	0.8	<0.2
1221280	Soil	12	0.46	147	0.004	4	0.61	0.010	0.03	<0.1	0.05	1.0	<0.1	0.14	2	0.7	<0.2
1221281	Soil	14	0.57	149	0.006	2	0.80	0.005	0.05	<0.1	0.05	2.1	<0.1	0.12	2	<0.5	<0.2
1221282	Soil	12	0.49	194	0.005	3	0.72	0.005	0.05	<0.1	0.04	2.2	<0.1	0.12	2	<0.5	<0.2
1221283	Soil	17	0.61	205	0.007	3	0.86	0.006	0.06	<0.1	0.05	2.2	<0.1	0.15	2	0.5	<0.2
1221284	Soil	18	0.60	258	0.008	3	0.98	0.007	0.07	<0.1	0.05	2.2	<0.1	0.14	3	<0.5	<0.2
1221285	Soil	23	0.71	288	0.015	2	1.18	0.007	0.08	0.1	0.06	2.7	<0.1	0.11	3	0.6	<0.2
1221286	Soil	20	0.65	311	0.015	3	1.11	0.007	0.08	0.1	0.04	2.4	<0.1	0.13	3	<0.5	<0.2
1221287	Soil	22	0.63	287	0.016	2	1.09	0.008	0.07	0.1	0.06	2.5	0.2	0.13	3	0.5	<0.2
1221288	Soil	18	0.54	317	0.014	4	0.96	0.008	0.07	<0.1	0.07	1.6	0.1	0.19	3	0.7	<0.2
1221289	Soil	19	0.59	318	0.016	3	1.01	0.008	0.06	<0.1	0.06	1.9	0.1	0.13	3	0.6	<0.2
1221290	Soil	18	0.58	403	0.014	4	0.99	0.008	0.05	<0.1	0.07	1.9	<0.1	0.15	3	1.2	<0.2
1221501	Soil	20	0.21	202	0.018	2	0.73	0.004	0.07	0.1	0.09	1.1	0.3	0.15	3	1.3	<0.2
1221502	Soil	25	0.29	134	0.024	<1	1.25	0.005	0.05	0.1	0.06	1.6	0.2	<0.05	4	0.9	<0.2
1221503	Soil	27	0.26	225	0.025	2	1.24	0.007	0.08	0.2	0.10	1.9	0.6	0.10	4	1.7	<0.2
1221504	Soil	24	0.16	243	0.011	<1	0.80	0.004	0.07	<0.1	0.09	0.8	0.6	0.13	5	1.5	<0.2
1221505	Soil	26	0.27	149	0.010	1	1.33	0.005	0.03	0.1	0.10	0.6	0.3	<0.05	5	1.1	<0.2
1221506	Soil	40	0.04	482	0.015	1	0.47	0.005	0.16	<0.1	0.16	1.9	1.0	0.40	8	5.2	<0.2
1221507	Soil	29	0.20	292	0.010	1	1.11	0.004	0.07	0.1	0.22	1.3	0.7	0.08	4	3.0	<0.2
1221508	Soil	9	0.03	317	0.006	1	0.28	0.006	0.21	<0.1	0.10	1.2	1.1	0.54	2	3.9	<0.2

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Project: JO
Report Date: November 02, 2011

CERTIFICATE OF ANALYSIS WHI11000915.1

	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
1221509	Soil	1.9	129.3	8.7	251	0.2	115.4	28.9	1337	5.74	7.1	1.3	4.7	13	2.3	1.3	0.2	32	0.10	0.124	33
1221510	Soil	1.6	16.8	10.3	39	<0.1	15.2	6.0	148	2.51	7.0	1.5	2.0	13	0.2	0.5	0.2	56	0.11	0.045	15
1221511	Soil	1.7	12.8	8.9	39	<0.1	14.6	6.0	148	3.62	9.4	1.9	2.9	11	0.3	0.7	0.2	64	0.07	0.038	13
1221512	Soil	0.8	13.4	8.5	53	<0.1	20.3	9.8	278	2.45	9.6	3.1	3.2	17	0.2	0.7	0.1	37	0.20	0.080	14
1221513	Soil	1.4	35.9	10.5	104	0.3	117.5	42.8	1842	3.98	4.2	0.9	2.0	61	2.9	0.4	0.1	50	0.63	0.138	33
1221514	Soil	1.2	11.5	9.2	27	<0.1	12.2	4.1	101	1.98	8.4	1.4	0.7	9	0.1	0.7	0.2	57	0.05	0.036	12
1221515	Soil	1.9	25.0	8.4	45	0.3	17.9	7.3	147	4.90	9.8	2.4	2.0	16	0.3	0.7	0.2	82	0.07	0.051	10
1221516	Soil	1.8	35.1	17.1	86	0.2	40.8	15.0	373	3.13	10.2	1.4	0.7	28	0.8	2.2	0.2	59	0.28	0.072	11
1221517	Soil	1.8	32.1	10.3	77	0.3	28.5	8.3	204	2.45	7.4	2.9	2.6	90	0.5	1.3	0.1	41	0.24	0.096	18
1221518	Soil	6.0	25.9	13.2	61	0.9	20.1	6.9	190	2.34	11.4	3.4	1.3	71	0.5	3.4	0.1	38	0.16	0.085	20
1221519	Soil	60.7	10.1	30.2	14	2.2	4.8	1.0	41	1.66	31.7	2.9	1.4	26	<0.1	11.8	0.4	135	0.03	0.068	11
1221520	Soil	67.2	35.1	34.4	28	3.2	8.6	2.9	126	2.96	56.6	3.3	3.0	49	0.1	17.0	0.3	158	0.05	0.075	10
1221521	Soil	19.6	15.5	21.7	20	1.5	4.8	1.7	89	2.33	23.1	4.7	1.5	79	<0.1	8.7	0.3	58	0.03	0.088	38
1221522	Soil	2.8	15.2	12.7	31	0.1	6.4	1.4	41	1.39	7.7	3.2	0.7	24	<0.1	1.6	0.2	35	0.03	0.041	16
1221523	Soil	1.3	21.1	8.3	50	<0.1	17.8	5.9	165	2.02	8.5	2.4	1.5	12	0.3	1.0	0.2	32	0.11	0.046	14
1221524	Soil	1.7	23.5	9.3	72	0.2	20.5	6.7	142	2.08	7.4	3.3	3.8	20	0.3	1.2	0.2	38	0.18	0.061	18
1221525	Soil	1.5	27.7	9.3	141	0.2	39.2	10.1	281	2.79	7.9	3.3	2.4	14	0.4	0.9	0.2	33	0.14	0.063	14
1221526	Soil	3.2	54.7	23.0	450	0.2	102.9	25.7	466	4.90	14.3	4.4	5.3	16	1.4	1.8	0.2	34	0.15	0.073	20
1221527	Soil	1.8	31.3	10.9	188	0.2	38.8	12.7	238	2.84	9.2	2.7	3.6	17	0.6	1.3	0.2	33	0.13	0.058	16
1221528	Soil	1.3	28.8	11.9	123	0.3	29.5	6.9	111	2.41	7.2	2.5	2.0	17	0.6	1.0	0.2	32	0.13	0.065	16
1221529	Soil	1.3	10.2	11.7	45	0.2	9.5	4.5	183	2.40	11.8	8.2	2.8	9	0.2	0.6	0.2	54	0.07	0.032	13
1221530	Soil	1.3	13.0	11.9	55	<0.1	17.1	6.6	184	3.10	10.3	5.4	2.9	9	0.2	0.7	0.2	46	0.05	0.040	13
1221531	Soil	1.1	20.0	10.4	66	0.3	17.4	6.5	161	1.87	8.7	3.9	1.2	26	0.2	0.9	0.2	29	0.16	0.067	15
1221532	Soil	4.1	70.9	18.9	103	1.3	24.1	6.8	166	2.61	14.8	14.8	1.0	25	0.5	2.6	0.2	35	0.13	0.109	14
1221533	Soil	2.9	86.8	10.2	102	0.4	26.8	7.7	163	2.27	9.3	7.7	3.4	41	0.5	1.9	0.2	32	0.22	0.097	16
1217396	Soil	4.7	47.4	17.5	90	0.2	19.5	5.1	143	2.07	12.2	5.6	1.0	45	0.4	2.6	0.2	42	0.06	0.048	21

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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
1221509	Soil	33	0.78	205	0.007	<1	1.55	0.003	0.03	<0.1	0.06	4.1	0.4	<0.05	4	0.7	<0.2
1221510	Soil	26	0.32	208	0.024	<1	1.63	0.006	0.03	0.2	0.04	2.1	0.2	<0.05	6	<0.5	<0.2
1221511	Soil	27	0.34	129	0.029	<1	1.77	0.005	0.03	0.2	0.04	1.9	0.1	<0.05	7	<0.5	<0.2
1221512	Soil	23	0.39	105	0.029	1	1.31	0.006	0.04	0.2	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
1221513	Soil	41	0.72	333	0.011	1	2.13	0.006	0.03	<0.1	0.07	6.6	<0.1	0.06	5	<0.5	<0.2
1221514	Soil	18	0.18	55	0.019	<1	0.80	0.005	0.03	0.2	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
1221515	Soil	29	0.39	139	0.030	<1	1.81	0.004	0.02	0.2	0.05	2.6	0.1	<0.05	7	<0.5	<0.2
1221516	Soil	24	0.33	244	0.042	<1	1.16	0.008	0.05	0.2	0.08	2.0	<0.1	0.08	5	<0.5	<0.2
1221517	Soil	24	0.36	201	0.022	<1	0.96	0.005	0.04	0.1	0.05	2.2	0.1	<0.05	3	<0.5	<0.2
1221518	Soil	19	0.26	186	0.018	<1	0.87	0.005	0.05	0.1	0.08	1.3	0.3	0.09	3	1.3	<0.2
1221519	Soil	15	0.04	306	0.027	<1	0.52	0.005	0.12	0.1	0.50	0.6	0.9	0.26	5	5.9	<0.2
1221520	Soil	24	0.14	358	0.025	<1	0.73	0.005	0.14	0.1	0.34	1.2	1.4	0.33	4	6.5	<0.2
1221521	Soil	14	0.07	283	0.010	<1	0.49	0.005	0.10	<0.1	0.24	0.5	1.0	0.24	3	2.4	<0.2
1221522	Soil	14	0.09	66	0.009	<1	0.64	0.003	0.04	<0.1	0.03	0.5	0.2	<0.05	5	<0.5	<0.2
1221523	Soil	18	0.26	106	0.022	<1	0.98	0.004	0.03	0.1	0.05	1.3	0.1	<0.05	3	<0.5	<0.2
1221524	Soil	22	0.34	235	0.031	<1	1.10	0.006	0.04	0.2	0.06	2.2	0.1	<0.05	4	<0.5	<0.2
1221525	Soil	21	0.32	194	0.023	<1	1.36	0.005	0.04	0.2	0.06	1.7	0.1	<0.05	3	0.6	<0.2
1221526	Soil	26	0.43	338	0.030	<1	1.61	0.005	0.05	0.2	0.05	3.1	0.2	<0.05	4	0.5	<0.2
1221527	Soil	23	0.34	272	0.029	<1	1.20	0.005	0.04	0.2	0.04	2.3	0.1	<0.05	3	<0.5	<0.2
1221528	Soil	24	0.34	493	0.020	<1	1.32	0.005	0.04	0.2	0.06	2.3	0.1	<0.05	4	<0.5	<0.2
1221529	Soil	21	0.22	168	0.032	<1	1.19	0.005	0.03	0.2	0.02	1.5	0.1	<0.05	6	<0.5	<0.2
1221530	Soil	22	0.26	111	0.024	<1	1.30	0.004	0.03	0.2	0.04	1.7	0.1	<0.05	5	<0.5	<0.2
1221531	Soil	19	0.31	398	0.018	1	0.99	0.005	0.04	0.2	0.10	1.5	0.1	<0.05	3	<0.5	<0.2
1221532	Soil	20	0.28	288	0.013	<1	1.18	0.004	0.05	0.2	0.22	1.5	0.2	<0.05	4	1.4	<0.2
1221533	Soil	20	0.35	192	0.023	<1	0.91	0.005	0.04	0.2	0.09	2.3	0.1	<0.05	3	0.9	<0.2
1217396	Soil	17	0.18	119	0.013	<1	0.85	0.004	0.06	0.1	0.05	0.9	0.2	<0.05	4	<0.5	<0.2

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

QUALITY CONTROL REPORT WHI11000915.1

	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																					
1203306	Soil	0.8	17.0	34.5	62	<0.1	16.7	8.6	391	2.55	14.4	3.8	3.5	10	0.2	1.2	0.3	30	0.07	0.054	11
REP 1203306	QC	0.9	17.2	34.4	61	<0.1	17.6	8.8	396	2.59	14.4	3.6	3.6	10	0.2	1.2	0.3	31	0.07	0.056	12
1203329	Soil	0.5	10.4	16.7	55	<0.1	18.7	8.8	397	2.30	4.1	1.1	4.9	260	0.2	2.0	0.1	13	8.48	0.135	25
REP 1203329	QC	0.5	10.4	16.9	54	<0.1	18.6	9.1	404	2.34	4.4	0.9	4.6	262	0.2	2.0	0.1	14	8.65	0.136	25
1203346	Soil	2.6	28.1	43.1	95	0.5	19.7	10.6	484	2.49	12.2	1.4	3.0	30	0.8	4.2	0.3	43	0.37	0.061	19
REP 1203346	QC	2.5	28.0	44.7	97	0.6	19.9	10.7	493	2.52	11.9	1.5	3.0	31	0.8	4.1	0.3	44	0.37	0.063	18
1217350	Soil	0.7	22.5	18.1	71	0.1	22.5	11.1	378	2.73	6.2	2.2	2.9	107	0.2	1.1	0.2	20	3.41	0.104	16
REP 1217350	QC	0.7	22.3	17.7	69	0.1	21.6	10.8	363	2.61	6.2	1.5	2.9	106	0.3	1.0	0.2	20	3.70	0.108	15
1217372	Soil	0.8	17.8	29.3	53	<0.1	16.3	7.0	226	2.44	9.8	2.2	1.1	11	<0.1	0.9	0.3	38	0.09	0.057	21
REP 1217372	QC	0.8	17.1	28.6	51	<0.1	15.5	6.5	221	2.32	9.3	1.6	1.2	10	<0.1	0.9	0.3	37	0.08	0.053	20
1217399	Soil	2.1	30.4	14.6	93	1.3	16.5	7.0	214	1.61	7.2	5.6	1.7	38	0.2	3.2	0.2	32	0.28	0.085	14
REP 1217399	QC	2.1	30.7	14.3	92	1.3	17.3	7.1	215	1.58	7.1	5.5	1.6	37	0.2	3.1	0.2	31	0.27	0.084	14
1221857	Soil	0.9	12.4	9.1	30	0.1	7.9	2.6	93	1.71	9.9	9.6	0.4	17	0.1	2.3	0.2	31	0.11	0.052	11
REP 1221857	QC	0.8	11.7	9.4	30	0.1	7.4	2.5	92	1.69	9.7	3.8	0.5	18	0.2	2.2	0.2	31	0.12	0.058	11
1220757	Soil	1.1	20.9	37.6	80	<0.1	26.2	12.5	642	2.44	9.2	2.4	12.1	21	0.2	1.9	0.2	16	0.13	0.045	39
REP 1220757	QC	0.9	20.5	37.5	79	0.1	25.0	11.8	633	2.43	9.1	2.3	12.2	21	0.4	1.6	0.2	16	0.14	0.046	37
1220777	Soil	0.8	17.3	17.9	49	<0.1	16.1	8.7	278	2.30	8.7	7.7	3.1	13	0.2	0.8	0.2	33	0.13	0.058	21
REP 1220777	QC	0.7	17.5	17.7	51	<0.1	15.9	9.1	284	2.32	9.0	5.5	3.0	13	0.2	0.8	0.2	32	0.13	0.055	21
1220800	Soil	0.7	20.3	11.1	56	0.1	19.8	8.4	311	2.20	31.1	6.4	3.1	27	0.1	0.9	0.4	42	0.47	0.058	16
REP 1220800	QC	0.8	20.8	11.3	58	0.1	21.2	8.6	322	2.30	33.0	7.6	3.3	27	<0.1	0.9	0.4	43	0.47	0.058	15
1220823	Soil	1.0	14.0	15.9	39	<0.1	13.0	4.7	132	2.22	14.7	2.0	1.0	9	0.1	0.8	0.3	35	0.06	0.040	16
REP 1220823	QC	1.2	14.0	14.9	38	<0.1	12.8	4.6	128	2.19	14.3	3.4	1.1	8	0.2	0.8	0.3	33	0.05	0.039	15
1220844	Soil	0.8	23.0	26.7	70	0.2	22.9	11.3	377	2.45	51.6	12.7	5.1	15	0.1	0.9	0.7	35	0.16	0.047	25
REP 1220844	QC	0.6	24.5	26.7	70	0.2	23.6	11.8	391	2.59	52.1	9.5	5.0	16	0.1	1.0	0.9	35	0.15	0.048	25
1221251	Soil	4.6	86.9	15.3	147	0.4	129.8	49.3	1931	8.32	7.4	1.8	3.5	158	0.8	2.9	0.1	70	0.71	0.266	33
REP 1221251	QC	4.4	82.5	15.2	141	0.4	128.2	48.3	1902	8.14	7.1	1.6	3.6	148	0.8	3.0	<0.1	67	0.67	0.254	31
1221279	Soil	0.7	23.1	15.3	61	0.1	19.4	8.7	240	2.20	4.2	2.0	3.8	268	0.2	1.3	0.1	14	10.39	0.098	12
REP 1221279	QC	0.6	22.6	14.6	60	0.1	20.5	8.8	244	2.31	3.7	6.1	4.2	259	0.2	1.4	0.1	15	10.41	0.095	12

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Project: JO
Report Date: November 02, 2011

QUALITY CONTROL REPORT WHI11000915.1

	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																	
1203306	Soil	20	0.29	97	0.014	<1	1.33	0.005	0.03	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
REP 1203306	QC	19	0.30	98	0.014	<1	1.39	0.005	0.03	0.2	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1203329	Soil	17	0.22	138	0.004	<1	0.44	0.005	0.02	0.1	0.03	2.4	<0.1	<0.05	2	<0.5	<0.2
REP 1203329	QC	17	0.23	141	0.004	<1	0.45	0.005	0.03	<0.1	0.02	2.3	<0.1	<0.05	2	<0.5	<0.2
1203346	Soil	23	0.30	329	0.021	<1	0.91	0.006	0.10	0.2	0.04	1.9	0.2	<0.05	4	0.7	<0.2
REP 1203346	QC	23	0.31	329	0.018	<1	0.93	0.007	0.10	0.1	0.04	1.7	0.2	<0.05	4	0.9	<0.2
1217350	Soil	18	0.44	239	0.003	<1	0.86	0.005	0.05	<0.1	0.07	2.6	<0.1	<0.05	2	0.8	<0.2
REP 1217350	QC	18	0.48	233	0.003	1	0.90	0.005	0.05	<0.1	0.06	2.5	<0.1	<0.05	2	0.6	<0.2
1217372	Soil	27	0.29	103	0.019	2	1.18	0.005	0.05	0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
REP 1217372	QC	26	0.28	100	0.017	2	1.15	0.005	0.04	0.1	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
1217399	Soil	21	0.38	190	0.016	1	1.07	0.006	0.05	0.2	0.14	1.8	0.2	0.06	3	0.7	<0.2
REP 1217399	QC	20	0.38	188	0.015	2	1.07	0.007	0.05	0.1	0.13	1.7	0.2	<0.05	4	0.6	<0.2
1221857	Soil	19	0.24	113	0.013	<1	1.05	0.005	0.03	0.1	0.14	1.2	0.2	<0.05	4	0.7	<0.2
REP 1221857	QC	20	0.24	111	0.013	3	1.07	0.005	0.04	0.2	0.12	1.1	0.2	<0.05	4	0.8	<0.2
1220757	Soil	13	0.23	90	0.016	<1	0.61	0.004	0.04	0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1220757	QC	13	0.23	90	0.013	<1	0.64	0.005	0.04	0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1220777	Soil	18	0.26	111	0.022	2	0.93	0.005	0.04	0.2	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
REP 1220777	QC	18	0.25	109	0.020	2	0.88	0.005	0.03	0.2	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1220800	Soil	25	0.46	241	0.047	2	1.41	0.014	0.06	0.6	0.04	2.3	0.2	0.06	4	<0.5	<0.2
REP 1220800	QC	26	0.48	255	0.044	1	1.46	0.013	0.06	0.4	0.03	2.4	0.1	<0.05	4	<0.5	<0.2
1220823	Soil	20	0.27	60	0.022	1	1.19	0.005	0.04	0.2	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
REP 1220823	QC	20	0.27	56	0.020	<1	1.14	0.005	0.03	0.2	0.05	1.1	<0.1	<0.05	4	<0.5	<0.2
1220844	Soil	32	0.50	144	0.045	1	1.41	0.008	0.10	0.8	0.03	2.3	0.2	<0.05	4	<0.5	<0.2
REP 1220844	QC	34	0.49	142	0.045	<1	1.42	0.007	0.10	0.8	0.03	2.4	0.2	<0.05	4	<0.5	<0.2
1221251	Soil	38	1.36	221	0.009	1	2.51	0.010	0.03	<0.1	0.10	4.5	<0.1	0.11	7	0.9	<0.2
REP 1221251	QC	37	1.36	204	0.004	1	2.47	0.013	0.03	<0.1	0.11	4.5	<0.1	0.10	7	1.3	<0.2
1221279	Soil	17	0.95	141	0.007	<1	0.88	0.006	0.04	<0.1	0.04	2.5	<0.1	<0.05	2	0.8	<0.2
REP 1221279	QC	18	0.93	144	0.007	1	0.87	0.007	0.04	<0.1	0.03	2.6	<0.1	<0.05	2	1.0	<0.2

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QUALITY CONTROL REPORT WHI11000915.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
1221282	Soil	0.7	22.5	12.1	56	<0.1	18.5	9.4	287	2.15	6.8	4.8	2.5	198	0.2	1.3	0.2	13	6.74	0.087	13
REP 1221282	QC	0.7	22.0	12.0	57	<0.1	18.6	9.3	291	2.15	6.7	4.4	2.7	193	0.2	1.3	0.2	13	6.63	0.088	13
1221519	Soil	60.7	10.1	30.2	14	2.2	4.8	1.0	41	1.66	31.7	2.9	1.4	26	<0.1	11.8	0.4	135	0.03	0.068	11
REP 1221519	QC	60.9	10.5	29.7	15	2.3	4.9	1.0	41	1.69	31.9	3.2	1.5	26	<0.1	12.3	0.4	130	0.03	0.067	11
1221529	Soil	1.3	10.2	11.7	45	0.2	9.5	4.5	183	2.40	11.8	8.2	2.8	9	0.2	0.6	0.2	54	0.07	0.032	13
REP 1221529	QC	1.2	10.4	11.5	45	0.2	9.7	4.6	183	2.41	12.5	2.5	2.9	8	0.2	0.6	0.4	55	0.07	0.031	13
Reference Materials																					
STD DS8	Standard	13.0	109.5	124.1	310	1.8	38.4	7.3	604	2.46	24.1	109.5	6.7	64	2.3	5.6	6.3	44	0.69	0.079	15
STD DS8	Standard	12.6	99.5	118.4	299	1.6	36.0	6.9	633	2.30	24.9	113.3	6.5	67	2.3	5.5	6.7	40	0.68	0.074	15
STD DS8	Standard	10.9	111.8	128.1	326	1.8	38.9	7.4	607	2.46	24.7	115.1	5.9	56	2.3	5.3	6.4	41	0.64	0.082	11
STD DS8	Standard	13.1	113.0	123.9	303	1.8	35.6	7.6	594	2.41	26.1	105.3	6.5	66	2.4	5.8	6.5	41	0.67	0.073	14
STD DS8	Standard	14.0	113.4	131.0	316	1.9	38.8	8.0	639	2.56	25.4	110.0	7.2	75	2.7	5.9	6.9	43	0.73	0.080	16
STD DS8	Standard	14.0	108.3	125.7	312	1.8	39.8	7.8	628	2.48	23.4	116.0	6.7	66	2.1	5.3	5.8	44	0.71	0.077	17
STD DS8	Standard	13.4	113.4	122.9	318	1.7	37.5	7.7	610	2.40	25.8	108.6	6.9	65	2.4	5.8	6.3	43	0.68	0.081	15
STD DS8	Standard	13.5	105.2	123.1	315	1.7	37.5	7.5	606	2.48	23.3	118.2	6.7	65	2.2	5.2	5.9	43	0.69	0.078	16
STD DS8	Standard	13.1	113.8	131.0	315	1.8	37.8	7.6	619	2.48	24.8	120.9	7.8	70	2.6	6.2	7.1	42	0.70	0.077	15
STD DS8	Standard	12.9	111.9	130.5	309	1.7	37.0	7.4	604	2.37	24.7	121.5	6.9	66	2.2	5.5	7.0	40	0.66	0.079	15
STD DS8	Standard	13.3	110.1	129.9	304	1.8	38.6	7.3	607	2.50	25.3	97.4	7.2	68	2.1	5.7	6.5	43	0.69	0.079	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
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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Acme Analytical Laboratories (Vancouver) Ltd.
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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

QUALITY CONTROL REPORT WHI11000915.1

		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1221282	Soil	12	0.49	194	0.005	3	0.72	0.005	0.05	<0.1	0.04	2.2	<0.1	0.12	2	<0.5	<0.2
REP 1221282	QC	13	0.49	187	0.005	2	0.72	0.005	0.05	<0.1	0.05	2.2	<0.1	0.12	2	<0.5	<0.2
1221519	Soil	15	0.04	306	0.027	<1	0.52	0.005	0.12	0.1	0.50	0.6	0.9	0.26	5	5.9	<0.2
REP 1221519	QC	15	0.04	302	0.026	<1	0.53	0.004	0.11	0.1	0.50	0.7	0.9	0.26	5	6.0	<0.2
1221529	Soil	21	0.22	168	0.032	<1	1.19	0.005	0.03	0.2	0.02	1.5	0.1	<0.05	6	<0.5	<0.2
REP 1221529	QC	20	0.21	168	0.033	<1	1.12	0.003	0.03	0.2	0.04	1.6	0.2	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	117	0.62	277	0.113	3	0.91	0.100	0.43	3.0	0.21	2.1	5.4	0.18	5	5.0	5.0
STD DS8	Standard	105	0.58	275	0.108	3	0.88	0.101	0.39	3.2	0.17	2.4	5.2	0.09	5	5.4	5.5
STD DS8	Standard	113	0.61	233	0.093	3	0.86	0.080	0.40	2.9	0.21	1.7	5.5	0.12	5	5.1	4.8
STD DS8	Standard	113	0.56	275	0.111	3	0.85	0.103	0.43	2.8	0.21	2.7	5.2	0.17	5	5.1	4.6
STD DS8	Standard	124	0.65	286	0.130	3	0.97	0.102	0.46	3.1	0.21	3.1	5.7	0.16	5	4.9	5.3
STD DS8	Standard	121	0.61	278	0.118	2	0.94	0.095	0.41	3.1	0.19	2.1	5.5	0.18	5	4.9	5.1
STD DS8	Standard	116	0.59	282	0.118	2	0.90	0.105	0.44	2.9	0.20	2.4	5.2	0.14	5	5.3	5.2
STD DS8	Standard	118	0.61	269	0.115	3	0.93	0.106	0.42	2.9	0.18	1.9	5.4	0.17	5	4.9	4.7
STD DS8	Standard	116	0.61	282	0.120	2	0.93	0.102	0.42	3.3	0.19	2.3	5.7	0.18	5	5.6	4.9
STD DS8	Standard	114	0.61	265	0.117	2	0.91	0.100	0.42	3.0	0.19	2.2	5.9	0.16	5	4.9	4.6
STD DS8	Standard	116	0.61	279	0.120	2	0.92	0.093	0.43	2.9	0.20	2.3	5.5	0.16	5	5.6	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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
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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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 02, 2011

QUALITY CONTROL REPORT WHI11000915.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
BLK	Blank	<0.1	<0.1	<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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		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 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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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: August 12, 2011
Report Date: November 13, 2011
Page: 1 of 12

CERTIFICATE OF ANALYSIS WHI11001005.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO(9-21)
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	320	Saving all or part of Soil Reject			WHI
1DX2	319	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1203501	Soil	1.0	40.8	17.0	85	0.2	35.8	18.2	308	3.62	283.5	29.9	18.4	8	<0.1	21.7	0.8	6	<0.01	0.035	51
1203502	Soil	1.1	42.1	15.1	80	0.2	34.2	14.1	233	3.56	408.8	60.2	20.8	8	0.1	31.3	1.0	4	0.02	0.035	54
1203503	Soil	0.9	41.3	21.8	87	0.2	41.0	17.9	356	3.52	624.8	28.5	14.5	14	0.1	18.5	1.0	11	0.04	0.041	47
1203504	Soil	1.3	43.3	15.7	84	<0.1	55.8	29.9	602	3.66	238.7	9.7	10.2	15	0.1	3.4	0.8	22	0.05	0.055	45
1203505	Soil	1.7	37.1	16.0	70	0.1	30.5	12.9	352	3.12	196.8	8.1	7.4	18	0.1	3.3	1.5	26	0.09	0.056	33
1203506	Soil	1.0	57.8	27.6	126	0.1	72.1	33.2	807	5.21	91.7	11.4	17.2	13	0.2	2.2	0.8	16	0.03	0.053	56
1203507	Soil	3.4	33.8	17.9	69	0.2	32.5	13.2	530	3.66	357.7	17.7	8.5	28	0.2	10.2	2.3	21	0.09	0.057	44
1203508	Soil	1.4	33.4	10.7	49	0.3	29.5	11.6	289	2.69	414.0	24.1	5.9	21	<0.1	17.3	2.0	12	0.06	0.049	42
1203509	Soil	1.4	34.7	17.9	54	0.3	28.9	12.4	282	2.86	586.2	28.7	15.2	25	0.1	17.8	2.6	10	0.05	0.044	50
1203510	Soil	1.7	26.7	17.2	55	0.3	23.6	9.6	296	2.84	441.8	17.7	2.1	31	<0.1	6.4	1.8	29	0.23	0.071	21
1203511	Soil	1.7	30.4	15.2	26	<0.1	10.2	3.0	93	2.15	302.1	15.4	5.8	14	<0.1	4.4	2.4	22	0.03	0.041	37
1203512	Soil	0.9	20.8	13.8	49	0.1	18.7	9.2	296	2.29	113.3	4.5	3.2	13	0.2	1.1	0.4	32	0.10	0.060	22
1203513	Soil	1.0	27.8	16.4	62	0.2	19.9	10.1	342	2.78	110.7	6.6	4.9	11	0.1	1.2	1.0	38	0.07	0.057	26
1203514	Soil	1.2	23.4	15.9	58	0.1	18.1	7.4	218	2.79	98.4	8.4	3.0	12	0.1	1.0	1.0	41	0.06	0.058	28
1203515	Soil	0.9	25.9	11.4	61	0.1	20.1	8.1	241	2.43	71.1	7.3	4.7	14	0.2	0.8	0.7	35	0.13	0.065	24
1203516	Soil	0.9	25.6	11.9	59	0.1	20.8	9.4	265	2.33	89.4	14.0	6.0	14	0.2	0.7	0.6	36	0.15	0.070	21
1203517	Soil	0.9	20.9	11.3	53	<0.1	16.9	7.3	236	2.27	60.6	8.8	3.6	12	0.1	0.7	0.6	35	0.11	0.057	18
1203518	Soil	0.9	14.6	10.9	46	<0.1	15.3	6.0	192	2.13	49.7	4.7	1.0	10	0.1	0.6	0.5	40	0.08	0.057	14
1203519	Soil	1.1	15.5	12.5	52	<0.1	16.9	7.3	286	2.30	85.5	4.6	1.4	11	0.1	0.7	0.7	42	0.10	0.055	15
1203520	Soil	0.8	19.0	9.8	59	<0.1	19.6	8.5	293	2.24	107.6	8.6	3.4	16	0.2	0.8	0.8	40	0.15	0.062	15
1203521	Soil	1.1	20.4	13.6	46	0.2	17.9	5.9	145	2.29	130.5	8.8	1.2	13	0.2	0.8	1.2	47	0.08	0.058	16
1203522	Soil	0.9	18.9	13.1	51	<0.1	18.9	7.1	221	2.19	67.0	11.4	1.5	11	0.1	0.7	0.5	37	0.10	0.053	21
1203523	Soil	0.9	13.4	13.2	39	<0.1	13.2	4.8	128	2.05	43.5	3.4	0.6	9	<0.1	0.5	0.5	39	0.08	0.052	16
1203524	Soil	0.8	21.8	11.4	54	<0.1	19.6	7.4	192	2.21	50.9	4.8	3.5	11	0.1	0.8	0.8	36	0.12	0.058	20
1203525	Soil	1.0	17.7	11.7	49	<0.1	17.4	7.4	216	2.88	115.2	14.7	5.8	15	<0.1	0.8	1.9	56	0.14	0.048	16
1203526	Soil	1.4	10.4	10.3	35	<0.1	11.5	6.1	282	2.39	30.1	8.6	2.4	9	0.2	0.6	0.4	48	0.07	0.036	12
1203527	Soil	0.6	19.9	9.3	45	<0.1	17.2	6.4	153	2.11	14.8	5.5	2.3	13	<0.1	0.6	0.2	40	0.15	0.065	15
1203528	Soil	0.9	16.6	11.3	43	<0.1	15.1	6.2	157	2.38	13.4	4.3	2.6	11	<0.1	0.6	0.2	45	0.10	0.051	15
1203529	Soil	0.9	14.9	17.6	45	0.3	15.6	12.9	720	2.23	64.5	5.0	0.8	19	0.2	0.8	0.6	33	0.18	0.068	21
1203530	Soil	1.2	20.2	16.4	54	0.3	19.1	8.8	408	2.65	98.9	8.7	2.0	14	0.1	1.2	0.6	33	0.10	0.054	27

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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
1203501	Soil	7	0.04	29	0.001	2	0.27	0.003	0.05	<0.1	0.02	1.5	0.1	<0.05	<1	<0.5	<0.2
1203502	Soil	4	0.02	18	<0.001	<1	0.19	0.002	0.05	<0.1	0.01	1.5	<0.1	<0.05	<1	<0.5	<0.2
1203503	Soil	11	0.11	50	0.005	<1	0.41	0.004	0.06	<0.1	0.02	1.5	0.1	<0.05	1	<0.5	<0.2
1203504	Soil	17	0.36	68	0.010	<1	1.09	0.005	0.08	0.2	0.03	1.7	0.2	<0.05	3	<0.5	<0.2
1203505	Soil	21	0.23	87	0.013	<1	0.71	0.004	0.05	0.3	0.04	1.9	0.2	<0.05	2	<0.5	<0.2
1203506	Soil	20	0.25	67	0.005	1	0.73	0.003	0.05	<0.1	0.03	1.7	0.1	<0.05	2	<0.5	<0.2
1203507	Soil	16	0.13	105	0.007	1	0.59	0.005	0.09	0.3	0.03	2.6	0.2	<0.05	2	<0.5	<0.2
1203508	Soil	7	0.06	65	0.002	2	0.39	0.003	0.07	0.1	0.03	1.7	0.2	0.06	1	<0.5	<0.2
1203509	Soil	9	0.06	64	0.003	<1	0.30	0.003	0.06	0.1	0.02	2.4	0.1	<0.05	1	<0.5	<0.2
1203510	Soil	25	0.24	144	0.008	2	0.88	0.006	0.08	0.2	0.04	1.7	0.2	<0.05	3	<0.5	<0.2
1203511	Soil	18	0.11	55	0.009	2	0.55	0.004	0.07	0.3	0.04	2.1	0.2	<0.05	2	0.6	<0.2
1203512	Soil	23	0.22	56	0.021	<1	0.84	0.005	0.04	0.4	0.06	1.4	0.4	<0.05	3	<0.5	<0.2
1203513	Soil	30	0.39	81	0.029	<1	1.33	0.005	0.06	0.5	0.07	2.3	0.2	<0.05	4	<0.5	<0.2
1203514	Soil	28	0.39	85	0.029	1	1.35	0.005	0.07	0.4	0.05	2.0	0.2	<0.05	5	<0.5	<0.2
1203515	Soil	26	0.40	104	0.040	1	1.15	0.006	0.06	0.4	0.04	2.1	0.1	<0.05	4	<0.5	<0.2
1203516	Soil	24	0.40	92	0.047	<1	1.18	0.005	0.07	0.4	0.03	2.3	0.1	<0.05	3	<0.5	<0.2
1203517	Soil	23	0.38	80	0.038	<1	1.19	0.005	0.05	0.4	0.04	1.8	0.1	<0.05	4	<0.5	<0.2
1203518	Soil	24	0.37	66	0.029	<1	1.16	0.007	0.05	0.2	0.03	1.2	0.1	<0.05	4	<0.5	<0.2
1203519	Soil	25	0.38	63	0.040	<1	1.13	0.006	0.05	0.4	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1203520	Soil	25	0.44	120	0.055	<1	1.44	0.010	0.07	0.7	0.04	1.9	0.1	<0.05	4	<0.5	<0.2
1203521	Soil	29	0.41	108	0.050	1	1.31	0.008	0.06	0.6	0.06	1.6	0.2	0.06	6	<0.5	<0.2
1203522	Soil	25	0.37	77	0.032	1	1.11	0.005	0.06	0.3	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1203523	Soil	21	0.31	70	0.025	<1	1.21	0.005	0.04	0.2	0.04	1.0	0.1	<0.05	4	<0.5	<0.2
1203524	Soil	23	0.39	87	0.039	<1	1.27	0.005	0.05	0.3	0.05	2.2	0.2	<0.05	3	<0.5	<0.2
1203525	Soil	31	0.48	85	0.100	<1	1.59	0.009	0.08	1.7	0.03	2.3	0.2	<0.05	6	<0.5	<0.2
1203526	Soil	24	0.27	89	0.049	1	1.64	0.005	0.04	0.3	0.05	1.7	0.2	<0.05	6	<0.5	<0.2
1203527	Soil	22	0.36	79	0.039	1	1.36	0.006	0.04	0.2	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
1203528	Soil	25	0.38	101	0.041	1	1.62	0.008	0.04	0.2	0.05	2.7	0.1	<0.05	5	0.5	<0.2
1203529	Soil	22	0.33	128	0.019	2	1.18	0.007	0.06	0.2	0.08	1.1	0.4	0.05	4	0.7	<0.2
1203530	Soil	24	0.32	87	0.020	1	1.03	0.005	0.05	0.3	0.05	1.5	0.3	<0.05	3	<0.5	<0.2

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Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1203531	Soil	0.8	10.3	13.7	32	<0.1	9.3	3.8	121	1.71	17.7	5.4	0.4	9	<0.1	1.3	0.3	28	0.07	0.045	18
1203532	Soil	0.9	19.4	12.1	52	<0.1	17.4	6.8	215	2.22	63.2	16.6	2.6	14	<0.1	1.1	0.8	37	0.12	0.065	22
1203533	Soil	0.9	23.1	12.9	62	<0.1	19.3	9.0	248	2.46	111.3	16.1	3.9	15	0.1	0.9	1.2	40	0.13	0.065	22
1203534	Soil	0.7	19.6	9.9	54	<0.1	18.5	7.9	232	2.14	73.1	11.3	3.4	14	0.2	0.7	0.6	37	0.15	0.063	17
1203535	Soil	1.0	17.3	11.1	56	<0.1	18.2	8.0	262	2.22	59.5	53.1	3.4	17	0.2	0.7	0.6	48	0.18	0.077	19
1203536	Soil	0.7	16.1	10.6	54	<0.1	16.5	7.4	281	2.14	41.8	24.7	2.8	12	0.1	0.7	0.4	38	0.12	0.059	16
1203537	Soil	0.9	11.9	20.8	31	<0.1	9.1	3.1	91	1.64	22.7	5.4	0.3	10	<0.1	0.9	0.4	29	0.07	0.060	13
1203538	Soil	0.9	21.4	10.0	58	<0.1	18.3	9.2	315	2.35	121.0	25.3	4.2	23	0.2	0.9	1.3	37	0.21	0.068	17
1203539	Soil	1.0	13.8	10.5	48	<0.1	14.7	6.2	222	2.05	50.3	17.0	1.4	11	0.1	0.7	0.5	36	0.12	0.054	13
1203540	Soil	1.1	18.1	10.0	56	<0.1	17.0	6.9	196	2.19	80.0	11.6	2.2	16	0.2	0.8	0.8	41	0.16	0.056	16
1203541	Soil	0.8	25.1	21.0	59	<0.1	17.5	8.0	266	2.39	13.0	6.2	2.8	12	0.2	1.0	0.2	39	0.12	0.058	19
1203542	Soil	0.6	24.2	24.4	60	0.1	21.3	9.0	337	2.52	14.6	4.0	6.1	14	<0.1	5.0	0.2	24	0.06	0.038	41
1203543	Soil	0.7	77.7	52.7	149	0.1	48.3	30.4	1199	4.61	18.0	6.4	8.8	31	0.8	4.1	0.5	108	0.25	0.126	24
1203544	Soil	0.8	29.0	25.4	83	0.1	24.4	10.5	333	2.69	14.9	4.3	3.4	12	0.4	1.7	0.3	35	0.11	0.061	21
1203545	Soil	0.8	20.2	25.6	48	<0.1	14.6	5.2	183	2.40	17.1	4.5	1.7	9	0.2	1.4	0.2	43	0.07	0.042	13
1203546	Soil	0.8	23.3	23.0	71	0.2	18.6	8.3	317	2.23	26.8	8.4	3.0	11	0.4	4.5	0.2	33	0.10	0.050	21
1203547	Soil	0.7	33.8	47.3	94	0.2	22.5	11.7	424	3.05	29.8	5.0	4.5	15	0.3	7.6	0.3	52	0.15	0.068	28
1203548	Soil	0.5	28.7	16.0	79	<0.1	27.6	12.1	558	2.68	13.1	1.7	8.4	18	0.2	4.0	0.3	25	0.09	0.055	38
1203549	Soil	0.9	17.4	17.5	37	<0.1	13.7	5.5	198	1.82	10.9	3.0	1.8	15	0.1	3.1	0.2	23	0.10	0.036	27
1203550	Soil	0.9	15.2	19.5	48	<0.1	15.3	7.4	304	2.20	12.7	1.4	2.2	15	0.2	3.7	0.3	22	0.21	0.034	27
1221051	Soil	0.6	14.8	19.2	53	0.2	18.3	8.0	549	2.16	9.1	6.0	1.9	27	0.3	1.7	0.2	28	0.45	0.063	20
1221052	Soil	0.5	17.0	12.1	62	0.1	15.0	5.5	331	1.71	7.2	4.1	2.2	81	0.3	2.2	0.2	16	1.39	0.074	22
1221053	Soil	0.5	25.8	16.4	81	0.2	22.3	9.6	449	2.46	10.8	4.3	2.2	75	0.2	2.5	0.2	22	1.42	0.073	22
1221054	Soil	0.4	15.9	8.2	20	<0.1	8.5	3.9	313	0.97	4.1	3.9	0.5	144	0.2	1.0	0.1	6	3.83	0.078	7
1221055	Soil	0.5	24.4	16.7	65	0.1	15.2	6.8	403	1.53	7.7	3.6	1.0	105	0.4	2.2	0.2	15	2.61	0.081	12
1221056	Soil	0.4	22.4	10.8	64	0.1	17.7	7.8	387	1.88	7.9	4.2	1.4	89	0.3	1.7	0.2	23	2.00	0.076	13
1221057	Soil	0.7	20.7	15.0	71	0.1	19.9	9.1	679	2.21	10.6	6.4	3.1	57	0.3	1.5	0.2	30	1.11	0.072	16
1221058	Soil	0.4	23.6	14.2	78	0.1	22.0	10.1	622	2.32	13.7	3.9	3.9	51	0.5	1.8	0.2	32	0.90	0.067	19
1221059	Soil	0.4	18.3	11.4	70	0.1	17.6	8.7	733	2.03	10.5	2.8	1.7	64	0.3	1.3	0.2	27	1.28	0.075	13
1221060	Soil	0.5	23.1	12.0	80	0.1	19.9	10.3	451	2.10	9.0	4.2	2.0	66	0.2	1.7	0.2	27	1.30	0.077	15

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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
1203531	Soil	17	0.21	64	0.014	<1	0.92	0.004	0.03	0.2	0.05	0.5	0.1	<0.05	3	<0.5	<0.2
1203532	Soil	26	0.42	105	0.046	2	1.42	0.006	0.08	0.5	0.04	2.2	0.2	<0.05	4	0.6	<0.2
1203533	Soil	28	0.50	120	0.056	<1	1.75	0.008	0.09	0.7	0.04	2.5	0.2	<0.05	5	0.8	<0.2
1203534	Soil	24	0.43	119	0.051	<1	1.43	0.009	0.07	0.5	0.04	2.2	0.2	<0.05	4	0.6	<0.2
1203535	Soil	35	0.57	135	0.077	1	1.29	0.009	0.15	0.5	0.03	1.9	0.2	<0.05	5	<0.5	<0.2
1203536	Soil	23	0.41	113	0.042	<1	1.36	0.007	0.06	0.4	0.03	2.1	0.1	<0.05	4	0.5	<0.2
1203537	Soil	17	0.22	89	0.009	2	0.97	0.006	0.04	0.2	0.04	0.5	0.1	0.07	4	<0.5	<0.2
1203538	Soil	31	0.50	203	0.054	2	1.54	0.014	0.10	1.6	0.02	2.5	0.2	<0.05	4	<0.5	<0.2
1203539	Soil	24	0.34	92	0.028	<1	1.22	0.008	0.05	0.4	0.03	1.4	0.1	<0.05	4	0.7	<0.2
1203540	Soil	27	0.41	117	0.049	2	1.39	0.008	0.07	0.6	0.04	1.8	0.1	<0.05	5	<0.5	<0.2
1203541	Soil	30	0.46	113	0.028	<1	1.36	0.005	0.05	0.2	0.03	1.9	0.1	<0.05	4	0.6	<0.2
1203542	Soil	21	0.23	113	0.010	<1	0.86	0.004	0.04	<0.1	0.01	1.8	<0.1	<0.05	3	0.6	<0.2
1203543	Soil	146	1.73	532	0.196	<1	2.34	0.007	0.50	<0.1	0.02	8.2	0.5	<0.05	7	0.5	<0.2
1203544	Soil	30	0.44	79	0.028	1	1.26	0.005	0.05	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1203545	Soil	30	0.30	64	0.033	<1	1.13	0.008	0.04	0.2	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1203546	Soil	24	0.32	91	0.025	<1	0.95	0.004	0.04	0.1	0.02	1.7	0.1	<0.05	4	0.5	<0.2
1203547	Soil	51	0.56	158	0.052	1	1.43	0.005	0.08	0.1	0.02	3.7	0.2	<0.05	5	0.7	<0.2
1203548	Soil	23	0.36	75	0.032	<1	0.86	0.003	0.05	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1203549	Soil	15	0.19	109	0.011	<1	0.75	0.006	0.04	<0.1	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
1203550	Soil	16	0.17	83	0.011	<1	0.83	0.004	0.03	0.1	0.01	1.2	0.1	<0.05	3	<0.5	<0.2
1221051	Soil	18	0.26	150	0.010	<1	1.17	0.007	0.03	0.1	0.03	2.2	0.1	<0.05	3	0.5	<0.2
1221052	Soil	13	0.20	102	0.014	1	0.80	0.010	0.03	<0.1	0.04	1.7	<0.1	0.11	2	0.5	<0.2
1221053	Soil	18	0.27	117	0.015	2	0.91	0.010	0.04	<0.1	0.06	2.5	<0.1	0.10	3	0.9	<0.2
1221054	Soil	7	0.09	77	0.007	3	0.37	0.009	0.02	<0.1	0.06	0.7	<0.1	0.25	1	0.6	<0.2
1221055	Soil	13	0.24	115	0.013	3	0.69	0.009	0.03	<0.1	0.06	1.4	<0.1	0.21	2	0.8	<0.2
1221056	Soil	17	0.29	200	0.017	2	0.93	0.009	0.03	0.1	0.03	1.9	<0.1	0.12	3	0.7	<0.2
1221057	Soil	21	0.36	197	0.021	2	1.05	0.011	0.04	0.3	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
1221058	Soil	22	0.37	211	0.023	2	1.16	0.011	0.04	0.2	0.03	2.9	<0.1	<0.05	3	0.5	<0.2
1221059	Soil	18	0.30	211	0.018	3	0.95	0.008	0.04	0.1	0.04	2.0	<0.1	0.05	3	0.6	<0.2
1221060	Soil	19	0.30	195	0.018	3	0.98	0.009	0.04	<0.1	0.04	2.1	<0.1	0.06	3	0.5	<0.2

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	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
1221061	Soil	0.7	18.1	13.5	76	0.1	18.7	8.6	396	2.03	15.3	3.6	2.4	48	0.3	1.7	0.2	27	0.99	0.062	15
1221062	Soil	0.6	19.8	12.4	72	0.1	18.2	8.2	938	1.85	11.6	4.5	2.0	50	0.3	1.8	0.2	22	1.38	0.071	16
1221063	Soil	0.4	21.2	16.9	72	0.2	18.3	8.7	1243	1.86	13.5	3.7	1.7	58	0.4	2.8	0.2	23	1.72	0.077	12
1221064	Soil	0.6	18.1	14.8	64	<0.1	17.4	8.2	272	2.43	25.6	9.2	5.2	36	<0.1	2.1	0.3	34	0.69	0.062	19
1221065	Soil	0.8	20.7	13.4	51	<0.1	24.9	12.2	337	2.33	24.3	3.7	5.6	9	0.2	2.9	0.2	35	0.07	0.033	24
1221066	Soil	1.2	18.4	12.6	44	0.2	15.4	5.1	157	2.10	28.2	5.0	0.4	10	0.2	2.9	0.2	34	0.07	0.057	19
1221067	Soil	1.4	36.6	23.1	115	0.2	44.7	31.1	1080	3.98	54.0	7.7	9.7	20	0.4	11.4	0.3	42	0.12	0.093	39
1221068	Soil	1.0	39.5	22.8	85	0.2	33.0	11.3	338	3.35	45.6	7.3	4.3	14	0.1	6.8	0.3	39	0.09	0.077	29
1221069	Soil	1.6	28.1	19.5	69	0.1	23.8	8.3	322	2.96	43.0	7.5	1.1	13	0.2	4.7	0.3	46	0.10	0.078	21
1221070	Soil	1.5	20.9	12.8	57	0.1	16.7	5.9	261	2.51	36.4	11.0	0.3	10	0.2	4.0	0.3	47	0.06	0.087	15
1221071	Soil	1.2	16.2	16.1	52	0.1	20.2	5.7	197	2.46	20.8	6.2	1.0	11	<0.1	3.4	0.3	41	0.08	0.055	18
1221072	Soil	1.0	23.4	16.0	62	0.1	22.9	7.0	214	2.37	30.9	7.5	1.7	19	0.2	5.1	0.2	36	0.14	0.063	20
1221073	Soil	1.2	29.6	17.9	82	0.3	30.0	12.4	492	3.14	67.1	14.3	5.7	20	0.4	12.1	0.3	38	0.15	0.072	20
1221074	Soil	1.2	26.7	15.9	69	0.2	25.9	10.1	311	2.82	53.1	7.7	4.0	14	0.5	10.4	0.3	37	0.12	0.055	20
1221075	Soil	1.2	18.6	15.2	52	0.2	14.5	5.9	202	2.67	16.0	8.3	1.0	8	0.1	0.6	0.2	37	0.06	0.065	17
1221076	Soil	1.1	17.2	12.6	50	<0.1	14.2	5.7	190	2.44	11.2	3.4	1.1	8	0.2	0.7	0.2	39	0.06	0.046	16
1221077	Soil	1.2	18.1	16.9	55	<0.1	13.8	5.3	155	2.52	9.8	3.3	2.7	8	<0.1	0.5	0.2	37	0.05	0.039	25
1221078	Soil	0.8	19.8	13.8	46	0.1	13.7	5.6	168	2.41	10.7	4.5	4.2	7	0.1	0.5	0.2	31	0.06	0.038	28
1221079	Soil	0.9	18.2	16.3	47	0.2	14.0	4.3	145	2.58	13.7	3.6	1.5	8	0.1	0.6	0.2	37	0.07	0.045	24
1221080	Soil	0.8	15.4	11.8	49	<0.1	12.7	5.2	174	2.48	9.7	8.3	2.5	19	0.1	0.5	0.2	38	0.08	0.041	20
1221081	Soil	0.9	18.7	12.2	60	0.2	14.7	6.5	272	2.58	10.2	0.7	3.0	9	0.2	0.6	0.2	37	0.09	0.054	25
1221082	Soil	1.1	17.8	15.2	56	0.1	15.8	5.6	173	2.70	10.9	2.5	2.7	7	0.2	0.6	0.2	37	0.07	0.045	23
1221083	Soil	0.8	10.2	12.2	38	<0.1	10.2	3.3	114	1.86	8.8	3.1	1.0	7	0.1	0.5	0.2	37	0.06	0.043	17
1221084	Soil	1.0	13.4	15.4	44	0.2	14.1	5.3	157	2.14	8.8	2.3	0.4	7	0.2	0.5	0.2	37	0.06	0.056	15
1221085	Soil	1.0	21.6	13.2	53	0.1	17.3	6.1	211	2.49	11.1	3.2	1.4	8	0.1	0.6	0.2	35	0.07	0.058	20
1221086	Soil	1.0	17.5	14.1	57	0.1	17.2	7.5	268	2.64	11.5	3.1	2.0	8	0.1	0.6	0.3	40	0.07	0.048	25
1221087	Soil	0.9	22.3	14.0	52	0.2	20.5	12.6	425	2.26	8.3	2.2	2.0	7	0.1	0.5	0.2	31	0.05	0.047	33
1221088	Soil	0.9	18.3	14.5	45	0.1	13.6	5.9	224	2.23	8.3	1.4	1.6	7	0.1	0.4	0.2	29	0.06	0.051	28
1221089	Soil	1.3	22.8	19.5	61	0.3	17.4	8.1	257	3.21	11.6	2.1	4.0	7	0.1	0.6	0.3	36	0.06	0.051	30
1221090	Soil	1.1	13.5	17.4	42	0.1	12.0	4.3	131	2.17	12.9	3.3	0.9	6	0.2	0.7	0.2	30	0.04	0.038	20

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221061	Soil	19	0.31	168	0.018	<1	0.96	0.008	0.04	0.1	0.05	2.2	<0.1	<0.05	3	<0.5	<0.2
1221062	Soil	16	0.27	252	0.019	3	0.82	0.009	0.04	0.2	0.05	1.8	<0.1	<0.05	2	0.6	<0.2
1221063	Soil	16	0.28	292	0.014	2	0.95	0.010	0.04	0.1	0.04	1.7	<0.1	0.08	3	1.1	<0.2
1221064	Soil	25	0.39	186	0.041	1	1.14	0.016	0.06	0.3	0.03	2.3	0.1	<0.05	3	<0.5	<0.2
1221065	Soil	26	0.33	100	0.025	<1	1.24	0.005	0.06	0.1	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
1221066	Soil	23	0.27	92	0.012	1	1.13	0.005	0.05	0.1	0.02	0.8	0.1	<0.05	4	<0.5	<0.2
1221067	Soil	27	0.59	161	0.040	<1	1.51	0.005	0.15	0.1	<0.01	3.8	0.3	<0.05	5	<0.5	<0.2
1221068	Soil	38	0.53	126	0.011	<1	1.45	0.008	0.09	0.1	0.03	2.6	0.3	<0.05	4	<0.5	<0.2
1221069	Soil	29	0.31	131	0.029	<1	1.12	0.005	0.08	0.2	0.02	1.7	0.2	<0.05	5	0.6	<0.2
1221070	Soil	24	0.23	123	0.016	1	1.20	0.005	0.07	0.1	0.03	1.0	0.2	0.06	5	0.5	<0.2
1221071	Soil	35	0.40	98	0.017	<1	1.29	0.004	0.06	0.1	0.02	1.5	0.2	<0.05	5	<0.5	<0.2
1221072	Soil	29	0.40	158	0.022	<1	1.16	0.006	0.06	0.2	0.06	1.9	0.2	0.08	3	0.6	<0.2
1221073	Soil	26	0.42	137	0.032	1	1.18	0.006	0.07	0.2	0.05	2.2	0.2	0.05	3	0.5	<0.2
1221074	Soil	24	0.39	102	0.029	2	1.09	0.007	0.06	0.2	0.03	1.9	0.1	<0.05	4	<0.5	<0.2
1221075	Soil	21	0.34	97	0.020	1	1.18	0.006	0.04	0.2	0.03	0.9	0.2	0.05	4	0.5	<0.2
1221076	Soil	22	0.33	77	0.023	<1	1.19	0.005	0.04	0.2	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1221077	Soil	21	0.35	86	0.025	1	1.15	0.007	0.04	0.2	0.03	1.1	0.1	<0.05	4	<0.5	<0.2
1221078	Soil	18	0.29	68	0.016	<1	0.96	0.004	0.03	0.2	0.03	1.3	0.1	<0.05	3	<0.5	<0.2
1221079	Soil	24	0.29	107	0.019	<1	1.04	0.005	0.04	0.2	0.05	1.0	0.2	<0.05	4	1.2	<0.2
1221080	Soil	22	0.31	61	0.028	<1	1.13	0.003	0.04	0.3	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
1221081	Soil	21	0.34	128	0.027	1	1.15	0.005	0.04	0.3	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
1221082	Soil	23	0.33	66	0.025	1	1.12	0.004	0.03	0.3	0.03	1.2	0.2	<0.05	4	<0.5	<0.2
1221083	Soil	19	0.28	77	0.018	<1	1.01	0.005	0.03	0.2	0.03	0.8	0.1	<0.05	4	<0.5	<0.2
1221084	Soil	22	0.28	80	0.015	<1	1.08	0.005	0.04	0.1	0.06	0.6	0.2	<0.05	4	<0.5	<0.2
1221085	Soil	22	0.31	84	0.020	<1	1.15	0.004	0.04	0.2	0.04	1.0	0.1	<0.05	4	<0.5	<0.2
1221086	Soil	25	0.34	94	0.021	<1	1.35	0.005	0.04	0.2	0.04	1.3	0.3	<0.05	5	0.6	<0.2
1221087	Soil	20	0.27	90	0.017	<1	1.09	0.003	0.03	0.2	0.04	1.1	0.2	<0.05	4	<0.5	<0.2
1221088	Soil	19	0.24	65	0.014	<1	0.92	0.004	0.03	0.2	0.03	0.8	0.2	<0.05	4	<0.5	<0.2
1221089	Soil	24	0.35	112	0.021	<1	1.48	0.005	0.04	0.2	0.04	2.0	0.2	<0.05	5	<0.5	<0.2
1221090	Soil	19	0.24	73	0.013	<1	0.95	0.004	0.04	0.2	0.02	0.5	0.1	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221091	Soil	0.8	16.2	12.9	49	<0.1	14.9	5.4	148	2.22	12.2	5.6	2.5	7	<0.1	0.8	0.2	27	0.06	0.040	24
1221092	Soil	1.1	17.1	17.3	54	0.1	14.0	6.6	245	2.42	11.6	1.0	2.0	8	0.2	0.7	0.2	35	0.06	0.054	21
1221093	Soil	1.0	18.2	23.2	61	<0.1	16.5	5.7	156	2.41	12.0	2.9	4.1	8	0.1	0.6	0.3	38	0.06	0.034	24
1221094	Soil	0.7	19.3	17.1	57	0.1	16.0	7.5	213	2.30	12.8	4.4	4.7	10	0.1	0.7	0.2	35	0.07	0.038	24
1221095	Soil	0.7	17.6	12.6	49	<0.1	14.0	5.3	143	2.04	11.2	2.4	3.0	9	0.1	0.7	0.2	32	0.09	0.043	22
1221096	Soil	0.8	20.0	13.3	51	<0.1	15.3	5.6	163	2.10	9.3	2.9	3.9	10	0.1	0.7	0.2	30	0.09	0.041	25
1221097	Soil	0.8	13.4	12.2	38	<0.1	12.0	4.0	105	1.72	9.1	4.2	1.9	8	<0.1	0.6	0.2	28	0.06	0.033	23
1221098	Soil	0.9	9.2	15.7	35	<0.1	10.7	3.9	109	1.63	9.7	2.0	0.4	9	<0.1	0.5	0.2	36	0.06	0.041	15
1221099	Soil	0.9	11.9	13.2	41	<0.1	11.9	5.0	165	1.78	10.9	4.2	1.5	8	<0.1	0.7	0.2	33	0.07	0.038	19
1221100	Soil	0.8	8.8	14.2	31	<0.1	9.7	3.4	95	1.42	9.0	4.1	0.9	7	<0.1	0.6	0.1	28	0.06	0.029	18
1221291	Soil	0.9	19.7	32.6	70	<0.1	19.2	10.9	534	2.71	9.2	1.5	7.1	19	0.2	1.2	0.2	45	0.20	0.064	22
1221292	Soil	0.8	10.9	17.9	46	<0.1	15.1	7.1	335	2.25	10.8	7.9	1.5	12	0.2	0.7	0.1	38	0.14	0.060	13
1221293	Soil	0.9	13.4	13.5	42	<0.1	16.0	7.3	213	2.23	10.7	2.6	4.2	11	0.1	0.7	0.2	37	0.11	0.040	12
1221294	Soil	0.9	28.1	31.2	59	<0.1	24.9	16.5	458	2.65	15.0	3.1	7.7	19	0.2	1.7	0.3	21	0.16	0.058	28
1221295	Soil	0.9	20.6	17.2	58	<0.1	21.8	10.7	357	2.47	11.9	3.0	3.8	12	0.2	0.9	0.2	36	0.13	0.049	15
1221296	Soil	0.8	15.6	19.5	53	<0.1	16.9	8.1	338	2.38	10.8	2.6	1.5	9	0.2	0.6	0.2	36	0.08	0.044	16
1221297	Soil	0.8	22.8	22.8	64	<0.1	22.6	10.4	434	2.34	10.9	2.4	5.2	12	0.2	1.0	0.2	26	0.10	0.042	26
1221298	Soil	0.8	17.2	21.2	53	<0.1	18.2	7.0	201	2.31	11.1	0.9	2.1	8	0.2	0.8	0.2	26	0.06	0.054	25
1221299	Soil	0.8	24.0	34.1	73	<0.1	24.7	13.7	531	2.70	13.1	2.1	5.1	6	0.2	1.4	0.3	18	0.04	0.037	35
1221300	Soil	0.7	20.8	30.6	70	<0.1	22.7	13.2	586	2.41	12.1	2.1	6.6	9	0.3	1.5	0.2	26	0.09	0.041	23
1221301	Soil	1.0	26.7	25.9	68	0.1	23.2	9.9	439	2.50	13.7	2.0	3.3	13	0.2	1.6	0.2	29	0.13	0.057	22
1221302	Soil	1.1	20.2	20.3	50	<0.1	17.9	6.3	187	2.35	11.8	1.1	1.8	8	0.1	1.6	0.3	34	0.07	0.040	24
1221303	Soil	1.0	21.8	29.9	64	0.3	19.2	8.3	477	3.05	15.0	2.7	3.5	8	0.2	1.4	0.3	35	0.07	0.046	20
1221304	Soil	1.0	23.3	24.9	67	<0.1	23.0	11.4	561	3.80	14.9	<0.5	6.1	7	0.2	1.4	0.3	31	0.05	0.039	24
1221305	Soil	1.0	23.6	18.6	70	<0.1	25.3	9.3	405	2.61	14.1	12.7	4.5	9	0.2	0.9	0.2	35	0.09	0.043	18
1221306	Soil	0.9	14.9	16.8	47	<0.1	14.7	5.4	195	1.89	8.4	3.5	2.1	9	0.1	0.9	0.2	30	0.08	0.036	20
1221307	Soil	0.8	14.4	18.4	45	<0.1	14.1	4.6	147	1.82	9.2	17.7	1.6	9	0.1	1.0	0.2	26	0.09	0.045	18
1221308	Soil	0.8	15.3	19.9	48	<0.1	16.7	6.0	218	2.24	14.0	3.0	3.8	6	<0.1	1.7	0.2	21	0.05	0.041	29
1221309	Soil	0.6	20.0	18.1	54	<0.1	18.7	7.0	240	2.25	10.6	3.2	2.1	9	0.2	1.5	0.2	29	0.08	0.037	22
1221310	Soil	0.8	24.4	20.9	54	<0.1	19.5	7.8	295	2.29	25.3	5.7	2.7	11	0.1	1.1	0.4	32	0.10	0.039	23

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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
1221091	Soil	18	0.30	72	0.015	<1	1.03	0.005	0.05	0.2	0.03	1.0	0.1	<0.05	3	<0.5	<0.2
1221092	Soil	21	0.34	87	0.020	<1	1.19	0.004	0.04	0.1	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1221093	Soil	54	0.55	92	0.035	<1	1.34	0.004	0.08	0.1	0.02	1.9	0.2	<0.05	4	<0.5	<0.2
1221094	Soil	30	0.40	102	0.030	1	1.19	0.005	0.04	0.1	0.03	2.2	0.1	<0.05	3	<0.5	<0.2
1221095	Soil	21	0.35	82	0.028	<1	1.10	0.004	0.04	0.1	0.03	1.6	0.1	<0.05	4	0.8	<0.2
1221096	Soil	22	0.37	96	0.027	<1	1.09	0.005	0.04	0.1	0.03	1.8	0.1	<0.05	3	0.7	<0.2
1221097	Soil	19	0.30	62	0.017	<1	0.96	0.006	0.03	0.2	0.02	0.9	0.1	<0.05	3	<0.5	<0.2
1221098	Soil	20	0.27	78	0.017	<1	0.94	0.007	0.04	0.1	0.04	0.5	0.1	<0.05	4	<0.5	<0.2
1221099	Soil	21	0.29	67	0.023	<1	0.96	0.004	0.04	0.2	0.04	1.0	0.1	<0.05	4	<0.5	<0.2
1221100	Soil	16	0.23	56	0.018	<1	0.71	0.004	0.03	0.2	0.06	0.5	0.1	<0.05	3	<0.5	<0.2
1221291	Soil	58	0.59	142	0.072	<1	1.32	0.008	0.15	0.3	0.03	2.0	0.3	<0.05	4	0.7	<0.2
1221292	Soil	20	0.28	95	0.029	<1	1.14	0.006	0.04	0.2	0.03	1.3	<0.1	<0.05	4	0.7	<0.2
1221293	Soil	21	0.32	105	0.027	<1	1.26	0.006	0.04	0.2	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
1221294	Soil	17	0.28	118	0.018	<1	0.90	0.006	0.07	0.1	0.04	1.5	<0.1	<0.05	3	<0.5	<0.2
1221295	Soil	23	0.38	133	0.024	<1	1.22	0.006	0.06	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1221296	Soil	23	0.33	127	0.014	<1	1.32	0.005	0.05	0.1	0.04	1.4	0.1	<0.05	4	<0.5	<0.2
1221297	Soil	18	0.36	110	0.019	<1	1.07	0.005	0.05	0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
1221298	Soil	18	0.32	95	0.010	<1	1.21	0.014	0.05	0.1	0.02	1.1	0.1	<0.05	4	<0.5	<0.2
1221299	Soil	18	0.35	59	0.009	2	1.12	0.003	0.04	0.2	0.02	1.1	<0.1	0.06	3	0.6	<0.2
1221300	Soil	18	0.40	87	0.022	3	1.13	0.004	0.05	0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
1221301	Soil	20	0.43	111	0.020	3	1.15	0.005	0.05	0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
1221302	Soil	21	0.37	112	0.013	3	1.26	0.004	0.04	0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1221303	Soil	22	0.41	61	0.017	3	1.13	0.005	0.04	0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1221304	Soil	26	0.49	54	0.018	1	1.58	0.005	0.04	0.1	0.02	1.6	<0.1	<0.05	5	0.6	<0.2
1221305	Soil	25	0.42	120	0.022	3	1.44	0.005	0.04	0.2	0.03	2.2	<0.1	<0.05	4	0.8	<0.2
1221306	Soil	20	0.36	90	0.020	<1	1.05	0.005	0.03	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1221307	Soil	20	0.34	84	0.011	2	1.09	0.003	0.03	0.2	0.03	1.0	<0.1	<0.05	4	<0.5	<0.2
1221308	Soil	20	0.35	57	0.007	2	1.13	0.004	0.04	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
1221309	Soil	22	0.40	113	0.017	1	1.23	0.006	0.04	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1221310	Soil	21	0.41	173	0.019	2	1.25	0.006	0.04	0.1	0.03	2.1	<0.1	<0.05	4	0.7	<0.2

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221311	Soil	0.8	22.1	22.3	56	<0.1	20.9	7.0	256	2.24	14.8	2.1	2.5	8	0.2	1.1	0.3	27	0.08	0.041	23
1221312	Soil	0.9	17.4	24.5	27	0.3	10.8	2.8	93	1.85	10.6	1.7	0.5	9	0.1	0.6	0.3	27	0.07	0.049	15
1221313	Soil	0.8	15.4	20.7	48	<0.1	17.1	6.2	225	2.13	20.5	1.3	5.5	8	0.2	1.7	0.3	29	0.07	0.035	24
1221314	Soil	0.9	12.8	14.7	36	0.1	12.1	3.6	100	1.44	7.8	2.2	0.9	8	0.1	2.7	0.2	24	0.06	0.036	20
1221315	Soil	0.9	23.9	18.5	58	<0.1	21.6	9.0	320	2.51	12.8	12.9	5.1	11	0.2	3.1	0.2	34	0.10	0.043	22
1221316	Soil	1.0	16.9	23.8	36	0.3	14.2	5.5	222	2.01	10.7	1.7	0.8	11	0.1	3.9	0.3	26	0.06	0.044	19
1221318	Soil	1.0	28.1	19.8	49	0.2	24.8	12.8	265	2.52	166.4	4.6	9.5	6	0.3	1.2	0.6	27	0.04	0.029	30
1221319	Soil	3.8	15.7	46.7	23	<0.1	25.6	2.0	57	1.37	21.4	3.7	3.0	9	0.1	1.1	0.3	29	0.05	0.042	22
1221320	Soil	0.9	17.5	11.0	21	0.3	7.4	2.1	49	1.41	17.5	1.1	0.3	7	0.2	0.6	0.3	23	0.04	0.083	11
1221321	Soil	2.0	53.1	42.0	75	0.5	31.1	15.8	763	3.98	77.7	2.9	5.2	12	0.2	1.5	2.8	26	0.06	0.089	27
1221323	Soil	1.4	31.1	25.9	100	0.7	35.0	12.3	529	3.55	191.9	6.1	4.8	6	0.2	3.8	0.8	29	0.04	0.060	26
1221324	Soil	1.4	24.6	25.0	70	0.8	28.2	5.6	223	2.62	103.2	3.3	1.3	11	0.2	2.4	0.8	32	0.09	0.095	23
1221325	Soil	1.3	24.8	24.2	50	0.8	15.9	16.8	2840	2.24	59.0	3.2	1.0	12	0.6	0.8	0.6	25	0.07	0.108	19
1221326	Soil	1.7	24.4	21.9	52	1.4	18.3	7.9	361	2.19	79.8	2.4	0.6	22	0.4	0.8	0.6	30	0.16	0.110	24
1221327	Soil	1.1	24.3	17.1	60	0.3	20.2	7.2	235	2.70	73.8	2.9	1.6	13	0.1	0.8	0.5	42	0.10	0.063	19
1221328	Soil	1.1	18.4	15.3	49	0.2	15.5	5.2	141	2.33	57.7	7.1	0.9	9	0.1	0.7	0.5	36	0.05	0.056	18
1221329	Soil	1.1	29.8	18.7	69	0.8	23.5	8.2	286	3.22	77.6	3.2	2.4	17	0.1	0.9	0.7	39	0.12	0.074	24
1221330	Soil	1.4	28.0	22.2	74	0.2	28.2	14.0	543	3.14	96.8	5.1	4.3	11	0.3	1.1	0.5	35	0.09	0.056	26
1220851	Soil	0.6	29.4	12.7	69	0.1	22.5	9.3	174	2.96	11.6	<0.5	18.0	16	0.1	1.1	0.4	9	0.14	0.033	56
1220852	Soil	0.4	27.2	9.8	52	<0.1	25.1	10.7	328	2.33	664.6	6.3	15.6	10	<0.1	2.2	1.2	10	0.05	0.024	35
1220853	Soil	1.6	39.0	15.8	58	0.1	25.1	11.7	259	3.64	793.8	15.5	7.5	27	0.1	3.0	2.4	40	0.11	0.050	26
1220854	Soil	1.3	24.3	13.1	48	0.1	17.6	8.9	240	2.95	33.1	4.2	5.3	15	0.1	1.3	0.6	44	0.07	0.034	19
1220855	Soil	1.0	8.0	11.0	20	<0.1	6.7	3.0	104	1.71	21.8	1.6	0.8	7	<0.1	0.6	0.3	46	0.05	0.031	14
1220856	Soil	1.4	21.7	14.8	52	0.1	17.0	7.9	258	3.06	75.1	2.4	4.9	13	0.1	1.2	0.5	46	0.06	0.046	20
1220857	Soil	1.1	23.7	18.1	45	0.1	34.2	24.0	292	3.60	30.6	2.0	4.5	7	0.1	1.0	0.7	49	0.05	0.104	21
1220858	Soil	1.2	22.4	14.0	57	<0.1	19.6	14.5	427	2.78	30.7	6.1	4.1	11	0.2	0.9	0.4	40	0.07	0.046	16
1220859	Soil	1.2	25.6	12.9	48	<0.1	17.0	8.6	277	2.87	131.4	8.5	4.0	16	0.2	1.8	1.1	40	0.08	0.052	18
1220860	Soil	0.8	22.0	11.2	57	<0.1	20.8	11.5	289	2.50	90.7	8.6	3.6	14	0.2	1.2	0.6	34	0.11	0.058	17
1220861	Soil	1.0	47.8	32.7	81	0.5	38.1	20.1	325	3.37	326.7	17.5	15.1	27	0.2	15.9	2.0	18	0.13	0.039	42
1220862	Soil	1.1	33.2	18.3	77	0.3	29.7	12.1	415	3.27	389.6	11.0	3.7	23	0.2	1.9	1.3	40	0.18	0.066	26

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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
1221311	Soil	21	0.40	108	0.013	2	1.17	0.012	0.03	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1221312	Soil	19	0.20	86	0.010	<1	0.93	0.007	0.04	0.1	0.06	0.5	<0.1	<0.05	4	0.6	<0.2
1221313	Soil	20	0.32	83	0.018	2	1.09	0.004	0.03	0.2	0.02	1.5	<0.1	<0.05	4	0.5	<0.2
1221314	Soil	17	0.26	66	0.013	1	0.86	0.006	0.03	0.2	0.05	0.9	<0.1	<0.05	4	<0.5	<0.2
1221315	Soil	24	0.41	121	0.021	2	1.33	0.006	0.04	0.2	0.03	2.3	<0.1	<0.05	4	0.7	<0.2
1221316	Soil	18	0.22	72	0.012	<1	0.86	0.005	0.03	<0.1	0.03	0.6	<0.1	<0.05	4	<0.5	<0.2
1221318	Soil	23	0.27	66	0.014	1	1.08	0.008	0.04	0.1	0.04	1.8	<0.1	<0.05	3	<0.5	<0.2
1221319	Soil	45	0.09	63	0.011	2	0.46	0.008	0.05	0.1	0.05	0.8	<0.1	<0.05	3	<0.5	<0.2
1221320	Soil	15	0.11	49	0.013	<1	0.79	0.013	0.03	0.1	0.07	0.6	<0.1	0.09	3	0.9	<0.2
1221321	Soil	27	0.43	63	0.012	1	1.37	0.007	0.05	0.1	0.06	1.3	<0.1	0.06	5	1.0	<0.2
1221323	Soil	29	0.30	73	0.018	1	1.17	0.005	0.07	0.2	0.02	1.9	0.2	<0.05	4	0.7	<0.2
1221324	Soil	37	0.34	143	0.018	1	1.33	0.008	0.11	0.2	0.06	1.9	0.2	0.10	5	0.6	<0.2
1221325	Soil	20	0.23	122	0.010	1	0.92	0.012	0.05	<0.1	0.06	0.5	0.1	0.11	3	<0.5	<0.2
1221326	Soil	23	0.22	212	0.021	1	1.11	0.008	0.06	0.2	0.07	1.1	0.1	0.15	4	1.2	<0.2
1221327	Soil	28	0.45	161	0.026	2	1.41	0.006	0.05	0.2	0.04	2.1	0.1	<0.05	5	<0.5	<0.2
1221328	Soil	22	0.32	68	0.014	<1	1.11	0.006	0.03	0.2	0.05	1.0	<0.1	0.06	5	0.7	<0.2
1221329	Soil	26	0.46	159	0.023	1	1.58	0.006	0.04	0.2	0.05	2.0	0.1	0.07	5	1.0	<0.2
1221330	Soil	25	0.40	102	0.022	<1	1.27	0.005	0.04	0.2	0.03	1.7	<0.1	<0.05	4	0.7	<0.2
1220851	Soil	12	0.07	16	<0.001	<1	0.37	0.003	0.06	0.2	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1220852	Soil	11	0.05	28	<0.001	1	0.31	0.002	0.06	0.3	<0.01	1.6	0.2	<0.05	2	<0.5	<0.2
1220853	Soil	27	0.52	136	0.029	1	1.60	0.009	0.10	0.4	0.03	2.5	0.2	0.06	5	0.6	<0.2
1220854	Soil	24	0.40	88	0.034	<1	1.51	0.007	0.08	0.3	0.03	2.2	0.1	0.06	5	<0.5	<0.2
1220855	Soil	18	0.16	59	0.025	<1	1.07	0.003	0.03	0.1	0.04	1.1	0.1	0.05	6	<0.5	<0.2
1220856	Soil	26	0.43	79	0.031	<1	1.54	0.006	0.06	0.2	0.03	2.1	0.1	<0.05	5	0.6	<0.2
1220857	Soil	27	0.40	67	0.026	<1	2.11	0.004	0.06	0.8	0.04	2.1	0.2	<0.05	7	0.5	<0.2
1220858	Soil	24	0.38	92	0.034	2	1.54	0.006	0.05	0.3	0.03	2.0	0.1	<0.05	5	0.5	<0.2
1220859	Soil	25	0.39	87	0.033	<1	1.32	0.006	0.07	0.3	0.04	1.6	0.1	<0.05	4	<0.5	<0.2
1220860	Soil	22	0.36	102	0.030	<1	1.23	0.005	0.05	0.3	0.03	1.6	0.1	<0.05	4	<0.5	<0.2
1220861	Soil	19	0.31	84	0.008	<1	0.78	0.006	0.10	0.4	0.01	2.1	0.2	<0.05	3	<0.5	<0.2
1220862	Soil	35	0.50	147	0.032	<1	1.47	0.006	0.13	0.8	0.04	2.6	0.3	<0.05	4	0.6	<0.2

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		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
1220863	Soil		1.2	29.2	10.9	24	0.8	10.5	2.7	55	1.57	107.2	<0.5	0.5	12	0.2	0.9	0.6	24	0.05	0.081	20
1220864	Soil		1.4	37.7	18.5	76	0.2	30.5	24.3	617	3.40	428.2	5.0	6.7	20	0.2	1.8	0.9	34	0.05	0.048	30
1220865	Soil		1.2	44.2	17.2	80	0.2	48.5	30.0	715	3.80	375.0	6.5	12.3	17	<0.1	8.3	0.8	23	0.07	0.048	40
1220866	Soil		1.1	37.3	40.0	106	1.1	38.4	16.6	377	3.80	902.5	56.8	11.1	17	0.6	34.8	3.1	17	0.03	0.036	37
1220867	Soil		0.6	64.3	17.5	91	0.4	124.6	72.3	939	5.17	595.8	19.2	35.8	20	0.2	14.8	2.4	10	0.09	0.049	87
1220868	Soil		1.3	21.8	35.9	77	0.5	18.9	9.8	211	2.81	316.8	47.8	7.1	12	0.3	19.3	1.0	43	0.05	0.019	19
1220869	Soil		1.1	15.4	13.2	37	<0.1	11.9	6.0	203	2.41	21.3	1.5	3.5	10	<0.1	1.4	0.6	42	0.06	0.027	16
1220870	Soil		1.9	23.0	19.0	44	<0.1	13.0	7.6	245	2.87	19.0	5.6	4.1	11	0.1	1.0	0.5	41	0.06	0.047	18
1220871	Soil		1.1	22.1	27.5	58	0.1	19.2	10.7	323	2.68	106.1	7.4	2.3	11	<0.1	4.5	0.9	33	0.09	0.058	16
1220872	Soil		1.0	25.7	19.6	63	0.1	24.2	11.8	294	2.73	99.9	6.4	3.5	15	0.2	2.7	0.5	40	0.10	0.060	21
1220873	Soil		0.8	20.6	10.7	52	<0.1	15.7	8.5	221	2.47	385.4	4.4	3.3	13	0.1	1.1	0.6	37	0.13	0.055	16
1220874	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.
1220875	Soil		1.0	17.3	9.3	42	<0.1	14.2	6.2	180	2.11	208.0	5.1	2.4	18	0.2	0.8	0.7	29	0.11	0.058	17
1220876	Soil		0.8	28.3	10.4	64	<0.1	24.1	9.4	267	2.25	108.7	5.5	4.1	17	0.2	0.8	0.4	37	0.18	0.063	19
1220877	Soil		1.0	21.9	11.4	55	<0.1	19.7	8.9	229	2.35	135.4	6.4	2.0	14	0.1	1.1	0.5	37	0.14	0.067	17
1220878	Soil		0.7	19.0	12.1	52	0.3	17.6	7.3	174	2.10	206.4	7.0	2.6	16	0.1	1.5	1.0	32	0.15	0.071	19
1220879	Soil		0.8	16.6	7.9	44	<0.1	15.1	5.4	198	1.82	88.2	2.6	2.2	14	0.2	1.1	0.5	27	0.15	0.060	16
1220880	Soil		0.8	17.0	8.6	46	<0.1	14.2	5.8	176	1.84	76.1	3.8	2.1	12	0.1	0.9	0.4	29	0.14	0.062	16
1220881	Soil		0.9	13.9	9.4	38	<0.1	10.7	4.3	125	1.50	78.8	2.6	0.6	10	0.1	0.9	0.4	27	0.09	0.046	14
1220882	Soil		1.0	21.0	11.5	58	<0.1	18.0	8.2	289	2.26	97.6	14.2	2.6	13	0.3	1.1	0.4	35	0.13	0.064	21
1220883	Soil		0.7	20.8	9.6	48	<0.1	16.2	7.1	257	2.03	49.4	3.8	2.1	13	0.1	0.8	0.2	34	0.14	0.059	18
1220884	Soil		1.4	31.5	16.8	52	0.1	15.8	6.6	180	2.87	98.5	6.7	3.4	13	0.1	1.9	0.7	28	0.04	0.050	32
1220885	Soil		1.1	31.2	15.6	49	<0.1	16.0	6.5	171	2.78	101.8	5.4	3.5	13	0.1	1.8	0.7	27	0.04	0.050	30
1220886	Soil		1.5	43.9	20.2	67	0.2	22.7	9.5	236	3.04	63.7	2.0	7.9	17	0.2	1.8	0.6	28	0.05	0.048	39
1220887	Soil		1.1	19.6	13.0	44	<0.1	13.4	5.4	148	2.20	31.0	2.1	2.0	11	<0.1	1.6	0.4	29	0.06	0.035	21
1220888	Soil		0.7	30.0	16.2	56	0.1	16.9	6.7	179	2.87	51.0	3.2	5.1	14	0.1	2.8	0.7	27	0.04	0.044	29
1220889	Soil		1.0	22.9	14.9	50	<0.1	20.3	9.2	223	2.69	151.5	4.3	3.1	12	<0.1	1.9	1.3	44	0.10	0.050	19
1220890	Soil		0.7	23.2	11.7	53	<0.1	18.5	8.8	253	2.33	60.8	1.6	4.4	13	0.1	1.7	0.5	30	0.10	0.057	17
1220891	Soil		0.9	17.5	12.0	41	0.1	12.5	5.3	160	1.99	38.6	3.2	1.0	12	0.1	1.3	0.3	32	0.08	0.051	17
1220892	Soil		0.9	20.9	12.6	46	<0.1	14.2	6.8	239	2.64	213.1	9.3	3.8	12	0.1	1.7	1.3	35	0.07	0.044	20

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1220863	Soil	13	0.08	94	0.008	<1	0.93	0.008	0.03	<0.1	0.06	0.5	<0.1	<0.05	4	<0.5	<0.2
1220864	Soil	23	0.46	129	0.013	<1	1.50	0.008	0.08	0.1	0.02	1.9	0.2	<0.05	5	<0.5	<0.2
1220865	Soil	17	0.33	98	0.008	<1	1.16	0.006	0.07	0.1	0.04	1.9	0.1	<0.05	3	<0.5	<0.2
1220866	Soil	10	0.10	55	0.004	1	0.63	0.004	0.05	<0.1	0.03	1.4	0.1	<0.05	2	<0.5	<0.2
1220867	Soil	10	0.34	34	0.003	1	0.92	0.004	0.06	<0.1	0.02	2.1	0.1	<0.05	2	<0.5	<0.2
1220868	Soil	27	0.35	104	0.035	<1	1.65	0.006	0.05	0.1	0.06	3.7	0.1	<0.05	4	0.8	<0.2
1220869	Soil	20	0.27	69	0.030	<1	1.24	0.006	0.04	0.2	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
1220870	Soil	23	0.31	59	0.028	<1	1.22	0.006	0.04	0.3	0.06	1.6	<0.1	<0.05	5	0.5	<0.2
1220871	Soil	24	0.32	65	0.024	1	1.07	0.006	0.06	0.2	0.04	1.3	<0.1	<0.05	4	0.7	<0.2
1220872	Soil	33	0.42	118	0.033	<1	1.24	0.009	0.06	0.2	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
1220873	Soil	20	0.32	93	0.028	<1	1.30	0.006	0.04	0.2	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
1220874	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.
1220875	Soil	19	0.30	80	0.027	<1	1.04	0.006	0.05	0.2	0.02	1.3	0.1	<0.05	3	<0.5	<0.2
1220876	Soil	24	0.42	214	0.036	<1	1.28	0.007	0.06	0.2	0.05	3.0	0.1	<0.05	4	<0.5	<0.2
1220877	Soil	24	0.38	123	0.028	<1	1.24	0.006	0.04	0.2	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
1220878	Soil	22	0.35	109	0.023	<1	1.15	0.005	0.05	0.4	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
1220879	Soil	18	0.29	72	0.026	<1	0.83	0.004	0.04	0.3	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1220880	Soil	19	0.31	87	0.025	<1	0.94	0.005	0.04	0.3	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
1220881	Soil	18	0.27	69	0.020	<1	0.90	0.005	0.05	0.2	0.04	0.9	<0.1	<0.05	3	<0.5	<0.2
1220882	Soil	23	0.37	128	0.031	<1	1.21	0.006	0.05	0.2	0.03	2.0	0.1	<0.05	4	<0.5	<0.2
1220883	Soil	21	0.34	166	0.029	<1	1.17	0.005	0.04	0.3	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1220884	Soil	21	0.38	68	0.014	<1	1.21	0.007	0.04	<0.1	0.03	1.2	<0.1	<0.05	4	0.6	<0.2
1220885	Soil	20	0.38	66	0.013	<1	1.18	0.008	0.04	0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
1220886	Soil	26	0.55	95	0.020	<1	1.51	0.011	0.07	0.1	0.02	1.4	<0.1	<0.05	5	0.7	<0.2
1220887	Soil	21	0.34	71	0.016	<1	1.18	0.005	0.04	0.2	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
1220888	Soil	21	0.49	65	0.015	<1	1.33	0.006	0.04	0.2	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
1220889	Soil	38	0.53	108	0.039	<1	1.48	0.005	0.06	0.2	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
1220890	Soil	20	0.36	80	0.024	1	1.14	0.005	0.04	0.1	0.02	1.7	<0.1	<0.05	3	0.7	<0.2
1220891	Soil	20	0.30	109	0.018	<1	1.10	0.005	0.04	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1220892	Soil	22	0.36	89	0.023	<1	1.25	0.005	0.04	0.2	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2

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	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
1220893	Soil	1.1	21.2	16.4	40	<0.1	13.3	5.0	156	2.61	116.7	4.3	1.7	15	<0.1	2.6	1.0	33	0.06	0.049	22
1220894	Soil	0.9	23.1	10.9	53	<0.1	17.4	10.7	380	2.49	46.5	4.0	6.8	20	0.2	1.3	0.7	28	0.12	0.059	22
1220895	Soil	0.8	10.3	11.2	24	<0.1	6.4	2.6	84	1.89	35.9	3.6	0.2	9	0.1	0.6	0.5	40	0.05	0.037	12
1221332	Soil	0.9	25.6	19.7	65	<0.1	17.7	8.9	349	2.85	17.4	6.1	6.6	12	0.3	0.8	0.3	30	0.13	0.077	19
1221333	Soil	1.4	31.8	28.2	53	0.1	15.5	7.1	243	3.28	22.2	4.3	5.1	9	0.1	0.9	0.5	31	0.05	0.064	22
1221334	Soil	1.0	25.1	17.4	51	0.2	18.1	6.4	176	2.67	74.5	13.2	2.6	8	0.1	0.8	0.7	32	0.06	0.048	28
1221336	Soil	1.1	14.6	13.8	46	<0.1	13.6	7.1	263	2.47	14.9	3.8	4.6	8	0.2	0.6	0.2	39	0.07	0.047	16
1221337	Soil	1.1	20.6	13.5	54	<0.1	16.8	7.5	258	2.62	43.0	7.0	4.1	9	0.2	0.6	0.4	36	0.08	0.043	17
1221338	Soil	1.6	13.7	20.7	45	0.2	13.9	7.2	218	2.48	9.6	5.1	2.7	20	0.1	0.5	0.2	78	0.11	0.054	10
1221339	Soil	1.2	8.8	16.0	14	<0.1	5.0	1.9	50	1.00	5.4	3.1	0.2	8	0.1	0.4	0.3	28	0.03	0.042	13
1221340	Soil	2.4	21.8	32.3	43	0.4	13.2	4.7	165	2.53	29.5	5.8	1.3	7	<0.1	0.9	0.5	38	0.04	0.056	30
1221341	Soil	0.9	29.9	20.0	75	<0.1	32.1	12.1	339	2.89	58.2	4.1	8.0	9	0.2	1.2	0.3	28	0.06	0.047	29
1221342	Soil	1.1	14.0	13.3	38	0.2	11.8	4.2	118	1.97	24.2	3.2	0.5	8	0.1	0.5	0.3	36	0.06	0.050	17
1221343	Soil	0.7	17.5	13.2	42	<0.1	13.6	5.4	165	2.12	15.6	6.0	1.0	10	<0.1	0.6	0.2	33	0.10	0.052	13
1221344	Soil	0.9	22.6	12.5	55	<0.1	17.6	9.0	281	2.32	23.9	6.4	3.7	10	0.2	0.7	0.2	33	0.11	0.050	19
1221345	Soil	0.6	21.5	9.2	49	<0.1	17.9	7.5	233	2.09	13.9	1.9	3.5	14	0.2	0.6	0.2	33	0.16	0.062	17
1221346	Soil	0.7	27.0	10.9	59	<0.1	21.1	8.4	295	2.28	17.5	4.0	5.1	13	0.1	0.7	0.2	35	0.15	0.058	22
1221348	Soil	0.7	26.1	10.6	54	<0.1	26.2	8.4	238	2.38	66.4	7.4	2.8	10	0.2	2.7	0.2	37	0.11	0.057	16
1221349	Soil	0.9	15.4	12.3	38	<0.1	14.2	4.3	138	2.08	29.4	4.0	0.5	7	0.1	2.6	0.3	32	0.04	0.059	16
1221350	Soil	1.1	15.4	13.2	50	<0.1	19.6	9.3	303	2.55	23.5	3.3	2.1	11	0.2	6.8	0.2	38	0.10	0.059	16
1221351	Soil	1.7	17.8	23.1	32	0.4	12.6	3.5	96	1.84	74.9	17.7	0.5	12	0.2	7.4	0.5	27	0.07	0.083	18
1221352	Soil	1.3	14.4	14.9	54	<0.1	13.5	6.1	232	2.58	14.7	2.9	1.3	8	0.2	1.2	0.2	51	0.06	0.039	10
1221353	Soil	0.8	18.6	20.3	50	0.2	15.2	5.2	166	2.10	24.0	2.4	1.6	11	0.3	5.1	0.2	29	0.11	0.071	16
1221354	Soil	1.0	11.3	15.6	37	<0.1	9.9	4.1	161	2.26	65.0	2.7	3.7	7	0.1	3.5	0.6	43	0.04	0.023	14
1221355	Soil	1.4	38.8	15.4	52	0.3	15.7	15.2	429	2.89	1417	100.6	4.9	12	0.4	12.0	1.1	31	0.07	0.082	23
1221356	Soil	1.5	38.3	15.9	78	0.2	27.3	14.9	427	3.26	329.9	34.1	9.1	15	0.4	7.4	0.7	34	0.12	0.077	28
1221357	Soil	1.1	22.8	18.1	50	0.2	17.8	6.9	209	2.35	111.6	16.7	1.7	12	0.2	4.8	0.5	32	0.09	0.067	21
1221358	Soil	1.2	16.0	12.1	49	0.1	14.8	5.5	177	2.22	67.7	5.0	1.0	10	0.1	1.8	0.3	36	0.07	0.056	12
1221359	Soil	0.9	17.1	11.4	54	<0.1	15.3	5.9	200	2.36	27.0	5.0	2.4	11	<0.1	1.3	0.3	37	0.11	0.056	15
1221360	Soil	0.8	15.6	14.3	46	<0.1	13.9	5.6	177	2.06	15.4	2.9	1.3	9	<0.1	1.0	0.2	32	0.08	0.046	17

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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
1220893	Soil	21	0.33	61	0.014	2	1.15	0.006	0.04	0.2	0.03	1.1	<0.1	<0.05	4	<0.5	<0.2
1220894	Soil	19	0.41	113	0.031	1	1.09	0.009	0.05	0.2	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1220895	Soil	18	0.17	63	0.015	1	1.12	0.004	0.03	0.1	0.04	0.6	0.1	<0.05	5	<0.5	<0.2
1221332	Soil	19	0.36	48	0.027	2	1.03	0.004	0.04	0.3	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1221333	Soil	20	0.35	42	0.021	1	1.00	0.006	0.03	0.2	0.05	1.3	<0.1	<0.05	4	<0.5	<0.2
1221334	Soil	22	0.34	73	0.015	1	1.15	0.004	0.03	0.2	0.02	1.5	0.1	<0.05	4	<0.5	<0.2
1221336	Soil	23	0.33	88	0.031	2	1.33	0.005	0.04	0.2	0.05	1.8	<0.1	<0.05	4	<0.5	<0.2
1221337	Soil	21	0.35	86	0.030	2	1.39	0.006	0.04	0.2	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
1221338	Soil	191	0.85	153	0.156	2	1.49	0.015	0.14	0.9	0.07	2.2	0.2	0.06	8	<0.5	<0.2
1221339	Soil	11	0.07	73	0.020	1	0.70	0.005	0.03	0.1	0.04	0.6	0.1	<0.05	4	<0.5	<0.2
1221340	Soil	34	0.21	47	0.029	1	0.70	0.006	0.07	0.2	0.04	1.0	0.2	<0.05	5	<0.5	<0.2
1221341	Soil	20	0.30	69	0.021	<1	0.95	0.005	0.04	0.2	0.03	2.1	0.1	<0.05	3	<0.5	<0.2
1221342	Soil	20	0.30	71	0.020	2	1.00	0.006	0.04	0.2	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
1221343	Soil	21	0.31	80	0.024	<1	1.18	0.006	0.03	0.2	0.05	1.5	<0.1	<0.05	4	<0.5	<0.2
1221344	Soil	21	0.39	100	0.031	<1	1.15	0.005	0.04	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1221345	Soil	22	0.40	132	0.039	1	1.20	0.006	0.04	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
1221346	Soil	23	0.44	160	0.042	<1	1.29	0.007	0.04	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
1221348	Soil	32	0.49	74	0.027	<1	1.27	0.004	0.04	0.3	0.05	2.3	0.1	<0.05	4	<0.5	<0.2
1221349	Soil	23	0.31	58	0.010	1	1.02	0.005	0.04	0.1	0.04	0.7	0.1	<0.05	4	<0.5	<0.2
1221350	Soil	23	0.38	100	0.024	1	1.40	0.005	0.04	0.2	0.04	1.9	0.1	<0.05	4	<0.5	<0.2
1221351	Soil	19	0.16	74	0.011	1	0.92	0.009	0.05	0.3	0.07	1.1	0.4	0.08	3	<0.5	<0.2
1221352	Soil	23	0.32	77	0.033	1	1.49	0.006	0.03	0.2	0.05	1.8	0.1	<0.05	6	<0.5	<0.2
1221353	Soil	17	0.27	85	0.028	3	0.90	0.006	0.06	0.2	0.04	1.4	0.3	<0.05	3	<0.5	<0.2
1221354	Soil	15	0.18	51	0.028	2	0.91	0.003	0.03	0.3	0.04	1.2	<0.1	<0.05	5	<0.5	<0.2
1221355	Soil	17	0.23	73	0.020	2	0.95	0.005	0.05	0.5	0.06	1.6	0.3	<0.05	3	<0.5	<0.2
1221356	Soil	20	0.30	88	0.026	<1	0.98	0.005	0.06	0.3	0.03	2.3	0.2	<0.05	3	<0.5	<0.2
1221357	Soil	17	0.25	80	0.025	2	0.96	0.009	0.06	0.4	0.04	1.4	0.1	<0.05	3	1.0	<0.2
1221358	Soil	20	0.33	105	0.022	1	1.10	0.005	0.04	0.2	0.04	1.4	0.1	<0.05	4	<0.5	<0.2
1221359	Soil	21	0.38	91	0.032	1	1.22	0.005	0.04	0.2	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
1221360	Soil	19	0.33	73	0.025	<1	1.06	0.005	0.04	0.2	0.05	1.3	<0.1	<0.05	4	<0.5	<0.2

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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
1221361	Soil	0.8	15.2	18.6	36	0.2	11.4	3.8	114	1.75	12.6	2.6	0.4	10	0.3	0.9	0.2	28	0.08	0.073	15
1221362	Soil	0.9	19.7	14.7	48	<0.1	13.9	5.7	174	2.25	11.9	1.9	2.4	10	<0.1	1.0	0.2	29	0.09	0.051	22
1221363	Soil	0.8	26.8	14.5	58	<0.1	22.0	9.5	257	2.36	12.9	3.1	4.0	13	0.2	1.3	0.2	35	0.12	0.056	23
1221364	Soil	1.0	26.6	19.2	56	<0.1	20.9	8.7	203	2.50	20.2	3.3	1.9	13	0.2	0.9	0.3	29	0.08	0.055	23
1221365	Soil	0.9	27.9	20.4	65	0.4	31.3	20.4	985	2.65	15.5	4.3	7.0	17	<0.1	0.8	0.4	23	0.10	0.035	34
1221366	Soil	1.1	17.1	21.6	59	0.5	21.9	8.9	235	2.78	14.2	2.5	4.8	17	<0.1	0.9	0.3	25	0.12	0.050	27
1221367	Soil	0.7	12.9	13.7	51	0.3	17.9	7.2	215	2.19	8.3	1.5	2.5	14	<0.1	0.5	0.2	29	0.11	0.048	18
1221368	Soil	0.7	12.1	11.8	47	0.1	15.2	6.3	168	1.91	7.1	2.2	2.5	12	<0.1	0.5	0.2	30	0.10	0.043	19
1221369	Soil	0.9	12.8	13.4	37	<0.1	10.9	4.1	144	1.71	8.4	3.3	0.5	10	<0.1	0.6	0.2	30	0.07	0.049	14
1221370	Soil	0.8	11.7	12.7	37	<0.1	11.3	3.9	120	1.74	8.2	4.6	1.3	11	<0.1	0.6	0.2	32	0.08	0.033	16
1221371	Soil	0.9	12.6	12.1	47	<0.1	13.3	6.0	220	1.91	10.0	2.0	2.2	10	0.1	0.6	0.2	31	0.09	0.043	16
1221372	Soil	0.9	9.6	18.2	30	<0.1	8.1	2.7	90	1.62	8.3	2.1	0.4	9	<0.1	0.4	0.2	37	0.06	0.039	14
1221373	Soil	0.8	8.7	12.1	24	<0.1	6.8	2.4	73	1.36	8.9	2.1	0.1	8	<0.1	0.4	0.2	26	0.04	0.049	10
1221374	Soil	0.8	15.9	11.4	41	<0.1	12.8	4.4	131	1.79	11.5	2.9	1.1	10	<0.1	0.5	0.2	30	0.10	0.048	15
1221375	Soil	0.7	13.0	12.9	43	<0.1	12.0	5.2	190	1.87	16.4	1.9	1.7	9	<0.1	0.5	0.2	27	0.08	0.042	16
1221376	Soil	0.7	16.3	13.0	44	<0.1	15.3	5.3	148	1.86	22.2	3.6	1.5	9	<0.1	0.8	0.2	25	0.08	0.041	18
1221377	Soil	0.7	18.2	12.9	50	0.1	14.9	6.2	209	1.96	19.8	9.3	2.3	11	0.1	0.7	0.2	29	0.11	0.056	18
1221378	Soil	0.9	10.8	12.0	40	0.1	11.7	4.5	131	1.65	14.1	1.9	0.8	10	0.1	0.7	0.2	28	0.09	0.046	13
1221379	Soil	0.6	6.8	12.5	43	0.3	10.9	4.7	104	1.45	9.9	1.1	0.8	15	<0.1	1.0	0.2	24	0.14	0.048	14
1221380	Soil	1.1	29.5	18.8	62	0.2	19.0	7.6	212	2.99	9.4	1.6	6.5	9	0.1	0.5	0.3	33	0.07	0.046	26
1221381	Soil	1.0	26.7	16.7	56	0.1	16.5	6.9	210	2.97	6.7	1.6	5.6	8	<0.1	0.5	0.3	34	0.06	0.046	32
1221382	Soil	0.7	27.5	15.1	62	0.1	19.7	8.7	273	3.08	12.8	0.8	7.2	9	0.1	0.5	0.2	32	0.07	0.045	31
1221383	Soil	0.7	26.1	13.1	55	0.1	18.9	7.0	227	2.57	10.7	1.7	2.8	10	<0.1	0.6	0.2	32	0.09	0.054	25
1221384	Soil	0.9	21.9	14.6	65	0.1	21.1	10.0	356	2.66	21.3	2.4	3.1	11	<0.1	0.6	0.3	44	0.11	0.054	20
1221385	Soil	0.7	25.9	11.6	61	0.2	20.0	9.0	340	2.50	13.7	2.8	5.0	11	0.2	0.7	0.2	35	0.11	0.056	23
1221386	Soil	0.8	21.5	13.0	55	0.1	17.4	6.8	217	2.54	12.3	1.7	3.1	10	0.1	0.6	0.2	34	0.08	0.049	24
1221387	Soil	1.0	22.1	16.8	62	0.2	19.6	7.4	257	2.52	11.8	2.2	2.2	11	0.2	0.6	0.2	38	0.09	0.057	22
1221388	Soil	0.9	23.5	30.0	71	0.2	24.9	10.6	468	2.56	18.9	1.8	3.4	10	0.3	0.6	0.3	31	0.09	0.066	23
1221389	Soil	0.9	21.0	18.6	71	0.1	20.2	7.8	317	2.64	13.3	5.9	2.6	11	0.2	0.6	0.2	44	0.10	0.054	18
1221390	Soil	0.9	23.3	19.3	74	0.1	22.3	9.8	382	2.66	12.6	2.6	4.3	12	0.2	0.6	0.3	40	0.11	0.052	23

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221361	Soil	15	0.25	94	0.018	2	0.91	0.008	0.04	0.2	0.05	0.9	0.1	<0.05	3	0.7	<0.2
1221362	Soil	18	0.40	72	0.019	<1	1.18	0.005	0.04	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1221363	Soil	24	0.47	140	0.039	2	1.24	0.005	0.06	0.2	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
1221364	Soil	22	0.44	89	0.021	1	1.22	0.004	0.04	0.1	0.03	1.3	0.1	<0.05	4	0.8	<0.2
1221365	Soil	23	0.56	71	0.020	<1	1.34	0.005	0.04	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
1221366	Soil	27	0.58	92	0.012	<1	1.53	0.005	0.04	<0.1	0.03	1.9	<0.1	<0.05	5	0.6	<0.2
1221367	Soil	24	0.47	86	0.016	1	1.29	0.005	0.03	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1221368	Soil	22	0.44	85	0.023	<1	1.18	0.004	0.03	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
1221369	Soil	18	0.29	60	0.015	2	0.89	0.004	0.03	0.1	0.04	0.7	0.1	<0.05	4	<0.5	<0.2
1221370	Soil	22	0.33	81	0.024	1	0.92	0.007	0.03	0.2	0.03	1.2	<0.1	<0.05	4	0.9	<0.2
1221371	Soil	22	0.35	76	0.025	1	0.97	0.004	0.04	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1221372	Soil	19	0.23	66	0.025	1	0.83	0.005	0.04	0.2	0.03	0.9	<0.1	<0.05	4	1.0	<0.2
1221373	Soil	16	0.19	49	0.010	<1	0.77	0.006	0.03	0.1	0.05	0.4	<0.1	<0.05	3	<0.5	<0.2
1221374	Soil	19	0.30	71	0.021	<1	0.89	0.005	0.03	0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1221375	Soil	17	0.31	56	0.020	<1	0.90	0.004	0.03	0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
1221376	Soil	16	0.32	66	0.017	1	0.86	0.004	0.03	<0.1	0.03	1.0	<0.1	<0.05	3	<0.5	<0.2
1221377	Soil	19	0.35	75	0.021	1	0.98	0.004	0.03	0.2	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
1221378	Soil	18	0.30	65	0.016	1	0.86	0.005	0.03	0.2	0.05	0.9	<0.1	<0.05	3	0.5	<0.2
1221379	Soil	18	0.32	88	0.018	2	0.91	0.006	0.05	0.3	0.04	1.3	<0.1	<0.05	4	<0.5	<0.2
1221380	Soil	20	0.42	74	0.021	<1	1.25	0.004	0.04	0.1	0.03	1.9	<0.1	<0.05	4	0.6	<0.2
1221381	Soil	24	0.46	77	0.017	1	1.39	0.004	0.04	0.1	0.03	1.9	0.1	<0.05	5	<0.5	<0.2
1221382	Soil	19	0.44	58	0.019	<1	1.24	0.004	0.03	0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
1221383	Soil	30	0.41	77	0.021	<1	1.22	0.005	0.05	0.2	0.04	1.8	<0.1	<0.05	4	<0.5	<0.2
1221384	Soil	54	0.55	96	0.043	<1	1.48	0.005	0.06	0.2	0.03	2.7	0.2	<0.05	5	<0.5	<0.2
1221385	Soil	24	0.43	96	0.031	1	1.31	0.005	0.04	0.2	0.05	2.6	<0.1	<0.05	4	<0.5	<0.2
1221386	Soil	26	0.41	72	0.023	1	1.27	0.005	0.04	0.2	0.03	1.7	<0.1	<0.05	4	0.5	<0.2
1221387	Soil	27	0.44	91	0.027	<1	1.31	0.006	0.04	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1221388	Soil	21	0.40	82	0.027	2	1.14	0.005	0.04	0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
1221389	Soil	30	0.49	128	0.037	2	1.47	0.006	0.04	0.2	0.04	2.3	0.1	<0.05	5	0.6	<0.2
1221390	Soil	32	0.52	129	0.040	1	1.44	0.007	0.04	0.2	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221391	Soil	0.8	18.5	13.4	55	<0.1	16.5	7.2	256	2.25	11.2	5.0	2.0	9	0.1	0.5	0.2	36	0.10	0.053	19
1221392	Soil	1.2	17.5	17.6	55	<0.1	17.1	6.3	256	2.34	12.2	2.2	1.9	11	0.1	0.8	0.3	40	0.08	0.050	21
1221393	Soil	0.7	13.1	13.1	44	<0.1	13.5	4.0	133	1.85	9.4	2.1	0.8	8	<0.1	0.4	0.2	36	0.06	0.041	16
1221394	Soil	0.9	17.6	15.0	58	<0.1	16.3	8.2	344	2.39	10.8	2.0	2.6	10	0.1	0.5	0.2	39	0.10	0.061	22
1221395	Soil	0.8	21.1	10.9	59	<0.1	18.1	6.6	240	2.20	9.1	2.1	3.4	11	0.2	0.6	0.2	35	0.12	0.059	20
1221396	Soil	0.9	18.5	13.7	51	<0.1	15.7	6.2	220	2.08	9.4	2.3	2.2	10	<0.1	0.4	0.2	36	0.11	0.056	19
1221397	Soil	0.7	11.4	11.8	38	<0.1	10.6	4.4	177	1.67	7.4	21.8	0.6	8	0.1	0.4	0.2	32	0.08	0.045	17
1221398	Soil	0.8	11.7	13.4	38	0.1	11.2	4.0	143	1.74	8.5	3.8	0.4	9	0.2	0.4	0.2	34	0.08	0.046	16
1221399	Soil	0.9	13.0	12.1	46	0.2	13.1	5.1	167	2.06	9.5	2.5	0.8	10	0.1	0.4	0.2	36	0.10	0.054	16
1221400	Soil	0.7	8.9	13.3	40	0.3	11.3	4.2	169	1.79	8.8	1.9	0.5	11	<0.1	0.3	0.2	35	0.10	0.055	13
1221401	Soil	0.7	9.3	12.8	43	0.3	11.7	4.3	160	1.74	9.0	15.8	1.1	12	0.1	0.4	0.2	35	0.12	0.049	15
1221402	Soil	0.6	8.7	12.6	41	0.2	10.8	3.8	140	1.57	8.4	2.4	1.0	11	0.2	0.3	0.2	29	0.10	0.045	15
1221403	Soil	0.8	13.0	12.9	44	0.3	12.3	4.7	184	1.58	9.0	2.0	1.3	9	0.3	0.4	0.2	29	0.11	0.051	14
1221404	Soil	0.9	15.7	17.8	50	0.4	13.4	5.1	202	2.13	11.8	5.0	0.9	9	0.2	0.4	0.2	36	0.09	0.052	15
1221405	Soil	0.8	10.9	18.8	39	0.6	9.8	3.2	101	1.54	10.0	7.7	0.4	8	0.2	0.4	0.2	34	0.08	0.038	14
1221406	Soil	0.8	14.1	17.6	47	0.4	10.9	4.8	143	1.75	10.1	5.6	0.7	8	0.2	0.4	0.1	35	0.09	0.045	15
1221534	Soil	0.9	16.0	17.0	45	<0.1	13.6	5.2	154	2.34	45.1	3.1	1.4	8	0.2	2.0	0.3	31	0.06	0.045	21
1221535	Soil	1.2	39.0	20.9	66	<0.1	31.6	13.2	628	2.95	14.6	5.3	5.9	7	0.2	1.8	0.4	25	0.04	0.051	32
1221536	Soil	0.8	17.9	17.2	53	<0.1	20.9	9.9	366	2.75	14.6	2.1	4.9	9	0.1	0.9	0.2	36	0.08	0.035	18
1221537	Soil	0.7	31.6	25.2	69	0.1	27.1	13.7	592	2.97	19.6	1.2	5.9	14	0.2	2.3	0.2	42	0.15	0.058	21
1221538	Soil	0.7	22.6	28.6	56	0.2	18.5	6.9	222	2.27	19.6	2.0	1.6	12	0.3	2.8	0.2	35	0.12	0.056	19
1221539	Soil	0.9	20.5	27.8	59	0.1	18.1	8.3	320	2.34	23.8	2.7	1.8	13	0.2	4.4	0.2	39	0.13	0.061	18
1221540	Soil	0.8	19.9	24.4	55	0.1	17.5	7.3	278	2.31	19.7	3.7	1.2	11	0.2	3.2	0.2	39	0.10	0.062	17
1221541	Soil	0.9	22.1	24.5	61	0.1	19.3	8.0	312	2.45	17.8	3.7	1.9	13	0.2	2.5	0.2	37	0.14	0.065	18
1221542	Soil	0.7	21.2	17.3	61	0.1	19.2	8.3	350	2.28	12.0	3.5	4.6	13	<0.1	1.4	0.2	37	0.16	0.063	19
1221543	Soil	0.7	15.6	21.0	51	0.1	15.0	5.4	155	2.10	18.2	1.5	1.4	10	<0.1	2.8	0.2	38	0.11	0.048	17
1221544	Soil	0.6	12.6	14.9	46	<0.1	11.9	4.7	170	1.84	10.0	3.9	1.0	9	0.2	0.9	0.2	33	0.10	0.050	16
1221545	Soil	0.7	9.8	16.3	35	<0.1	10.6	3.6	107	1.58	9.8	1.7	0.7	7	<0.1	1.0	0.1	32	0.08	0.037	13
1221546	Soil	0.7	13.9	27.4	48	0.1	12.5	5.2	188	1.88	13.8	1.2	1.4	8	0.1	3.9	0.2	29	0.09	0.040	17
1221547	Soil	0.8	17.1	37.9	56	0.1	15.3	5.7	235	2.21	22.9	2.7	3.9	10	0.2	7.4	0.2	28	0.09	0.042	18

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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
1221391	Soil	23	0.39	75	0.022	<1	1.23	0.005	0.03	0.2	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
1221392	Soil	25	0.41	75	0.032	1	1.27	0.006	0.04	0.3	0.04	1.4	<0.1	<0.05	4	<0.5	<0.2
1221393	Soil	21	0.35	63	0.027	2	1.10	0.006	0.03	0.2	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
1221394	Soil	24	0.42	76	0.032	1	1.31	0.005	0.04	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1221395	Soil	21	0.40	96	0.035	1	1.13	0.006	0.04	0.3	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
1221396	Soil	22	0.37	90	0.033	<1	1.17	0.006	0.03	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1221397	Soil	17	0.25	55	0.022	<1	0.84	0.005	0.03	0.2	0.05	0.9	<0.1	<0.05	4	<0.5	<0.2
1221398	Soil	18	0.26	61	0.020	1	0.91	0.005	0.03	0.2	0.06	0.8	<0.1	<0.05	4	0.7	<0.2
1221399	Soil	20	0.34	70	0.023	<1	1.06	0.006	0.03	0.3	0.03	1.2	<0.1	<0.05	4	0.7	<0.2
1221400	Soil	19	0.31	95	0.017	1	1.04	0.006	0.03	0.2	0.03	1.0	0.1	<0.05	4	<0.5	<0.2
1221401	Soil	21	0.33	105	0.021	<1	1.04	0.008	0.03	0.3	0.03	1.3	0.1	<0.05	4	0.7	<0.2
1221402	Soil	18	0.28	83	0.019	<1	0.88	0.005	0.03	0.3	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
1221403	Soil	17	0.29	57	0.023	1	0.84	0.004	0.03	0.3	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
1221404	Soil	21	0.34	56	0.021	1	1.11	0.005	0.03	0.3	0.04	1.0	<0.1	<0.05	4	<0.5	<0.2
1221405	Soil	19	0.28	55	0.018	1	0.95	0.005	0.03	0.3	0.06	0.6	<0.1	<0.05	4	<0.5	<0.2
1221406	Soil	21	0.32	64	0.019	1	1.12	0.005	0.03	0.3	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
1221534	Soil	21	0.36	76	0.012	<1	1.26	0.004	0.04	0.1	0.05	0.9	0.1	<0.05	4	<0.5	<0.2
1221535	Soil	20	0.54	75	0.012	<1	1.37	0.004	0.05	<0.1	0.06	1.4	<0.1	<0.05	3	<0.5	<0.2
1221536	Soil	25	0.42	118	0.029	2	1.51	0.005	0.04	0.2	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
1221537	Soil	42	0.62	174	0.051	1	1.34	0.005	0.10	0.2	0.03	2.6	0.2	<0.05	4	<0.5	<0.2
1221538	Soil	23	0.41	109	0.025	2	1.23	0.007	0.04	0.2	0.03	1.6	0.1	<0.05	4	<0.5	<0.2
1221539	Soil	28	0.42	121	0.031	2	1.03	0.006	0.06	0.1	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
1221540	Soil	26	0.41	112	0.029	1	1.06	0.006	0.05	0.2	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
1221541	Soil	27	0.44	131	0.035	<1	1.07	0.006	0.05	0.2	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
1221542	Soil	26	0.49	161	0.049	<1	1.09	0.006	0.05	0.2	0.03	2.4	0.1	<0.05	3	<0.5	<0.2
1221543	Soil	26	0.42	91	0.033	1	0.98	0.005	0.04	0.2	0.04	1.3	0.1	<0.05	4	<0.5	<0.2
1221544	Soil	22	0.36	73	0.022	<1	1.10	0.004	0.03	0.1	0.04	1.2	<0.1	<0.05	4	<0.5	<0.2
1221545	Soil	18	0.31	60	0.016	<1	0.99	0.004	0.03	0.2	0.03	0.7	<0.1	<0.05	3	<0.5	<0.2
1221546	Soil	18	0.31	58	0.017	<1	0.91	0.004	0.03	0.1	0.03	0.9	<0.1	<0.05	3	<0.5	<0.2
1221547	Soil	20	0.31	63	0.019	<1	0.89	0.005	0.04	0.2	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2

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56th Floor - 100 King Street West
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Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221548	Soil	0.7	7.5	27.0	26	<0.1	7.1	2.5	68	1.12	10.4	1.6	0.2	6	0.2	3.2	0.2	24	0.04	0.040	12
1221549	Soil	0.8	10.0	32.8	40	<0.1	10.6	4.2	161	1.96	16.4	3.2	0.6	8	0.2	4.6	0.2	31	0.06	0.039	15
1221550	Soil	0.6	20.8	28.3	58	<0.1	17.0	6.0	237	1.98	12.5	4.4	1.9	12	0.3	4.6	0.2	32	0.14	0.058	16
1221551	Soil	0.5	21.5	26.6	59	0.1	17.0	7.0	280	2.04	12.6	1.5	3.9	12	0.2	3.0	0.2	30	0.15	0.055	17
1221552	Soil	0.7	10.5	34.6	36	0.1	9.5	3.3	101	1.31	16.2	11.7	0.4	9	0.3	4.8	0.2	28	0.08	0.039	14
1221553	Soil	0.8	8.3	13.3	32	<0.1	8.7	3.4	107	1.43	10.2	1.2	0.3	7	<0.1	0.9	0.2	33	0.06	0.034	12
1221554	Soil	0.7	21.1	10.2	53	<0.1	17.5	6.8	215	2.20	47.5	28.2	3.9	16	0.1	0.7	0.5	40	0.19	0.064	16
1221555	Soil	1.1	11.8	14.2	41	<0.1	13.2	6.7	233	2.83	65.0	9.3	5.1	9	0.1	0.6	0.8	55	0.08	0.032	12
1221556	Soil	0.5	21.1	66.4	96	1.0	15.2	7.2	371	1.84	39.3	3.3	4.3	39	0.7	4.4	0.3	11	0.87	0.052	21
1221557	Soil	0.6	27.2	118.6	131	0.7	19.1	8.7	314	2.25	62.7	5.3	11.9	25	1.1	3.5	0.4	15	0.41	0.052	32
1221558	Soil	0.7	23.3	99.8	115	0.7	17.2	8.0	300	2.19	84.2	5.2	9.9	32	0.8	6.2	0.3	11	0.54	0.033	26
1221559	Soil	0.7	24.3	85.6	104	0.8	17.7	7.5	351	2.12	56.3	5.2	8.4	24	1.0	3.3	0.3	16	0.28	0.049	24
1221560	Soil	0.7	23.5	84.5	110	0.6	18.0	9.7	315	2.26	74.1	4.6	7.3	33	0.8	4.3	0.4	10	0.24	0.038	26
1221561	Soil	1.0	13.8	32.9	54	0.2	14.7	6.9	253	2.11	15.1	1.5	6.8	11	0.2	1.3	0.2	27	0.07	0.026	25
1221562	Soil	1.1	26.4	24.4	63	0.3	24.6	11.2	370	2.88	70.1	8.4	7.6	11	0.2	1.1	0.9	44	0.10	0.035	18
1221563	Soil	0.7	18.2	22.6	59	0.2	18.4	7.4	269	2.32	14.1	6.2	2.8	12	<0.1	1.4	0.2	33	0.12	0.041	16
1221564	Soil	0.9	25.4	52.9	67	0.5	18.5	10.9	760	1.57	6.9	4.6	4.9	39	0.4	2.3	0.3	13	0.69	0.061	21
1221565	Soil	0.9	35.9	28.5	74	0.4	30.0	13.0	419	2.99	7.7	3.3	4.5	76	0.3	2.1	0.2	55	1.45	0.080	26
1221566	Soil	1.3	33.9	23.4	82	0.4	29.1	13.0	323	3.25	7.5	3.3	5.5	70	0.3	2.2	0.2	45	1.43	0.118	31
1221567	Soil	1.1	32.3	64.3	114	0.4	29.6	12.5	292	3.01	17.1	11.5	6.0	58	0.5	4.8	0.3	23	0.97	0.091	30
1221568	Soil	0.6	18.4	28.1	72	0.1	22.8	9.2	216	2.53	6.4	3.4	5.2	142	0.2	1.5	0.2	12	4.29	0.122	26
1221569	Soil	0.8	24.8	43.8	122	0.2	26.7	12.1	334	2.58	9.8	4.3	6.5	83	0.7	3.5	0.2	10	2.37	0.100	30
1221570	Soil	0.6	19.1	14.8	61	0.1	20.8	9.4	271	2.25	4.7	3.5	2.6	116	0.2	2.1	0.1	11	3.43	0.100	19
1221571	Soil	0.5	19.3	14.5	58	0.2	21.3	8.3	203	2.31	5.0	3.2	3.5	121	0.2	1.4	0.1	15	3.79	0.106	23
1221572	Soil	0.5	14.8	10.1	54	<0.1	20.1	8.4	170	2.21	3.1	2.2	3.0	125	<0.1	1.6	0.1	10	4.17	0.078	19
1221573	Soil	0.7	15.8	16.4	61	<0.1	21.0	8.6	251	2.34	4.2	2.1	3.0	98	0.3	1.8	0.1	12	3.30	0.119	21
1221574	Soil	0.6	19.2	18.9	79	0.1	25.2	10.4	294	2.49	7.0	3.4	4.3	50	0.2	2.3	0.1	18	1.95	0.110	27
1221575	Soil	0.6	17.8	29.6	98	0.2	19.1	8.5	208	1.83	5.8	1.7	4.1	75	0.6	2.3	0.1	13	2.30	0.108	22
1221576	Soil	0.7	24.1	33.4	97	0.1	26.4	11.9	403	2.51	6.1	3.2	4.4	54	0.6	5.3	0.1	23	1.14	0.128	29
1221577	Soil	0.9	24.1	19.3	69	<0.1	24.0	14.8	480	3.32	30.0	3.6	7.4	21	0.1	1.6	0.2	64	0.24	0.087	18

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Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221548	Soil	13	0.18	45	0.008	<1	0.66	0.005	0.03	0.1	0.02	0.3	<0.1	<0.05	3	<0.5	<0.2
1221549	Soil	19	0.30	52	0.015	<1	0.94	0.004	0.03	0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
1221550	Soil	21	0.38	94	0.026	<1	0.99	0.006	0.04	0.2	0.03	1.5	<0.1	<0.05	3	<0.5	<0.2
1221551	Soil	20	0.40	96	0.031	2	1.01	0.005	0.04	0.2	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1221552	Soil	16	0.26	65	0.014	<1	0.83	0.005	0.03	0.1	0.04	0.6	0.1	<0.05	3	<0.5	<0.2
1221553	Soil	17	0.27	46	0.016	<1	0.80	0.005	0.03	0.1	0.02	0.5	<0.1	<0.05	4	<0.5	<0.2
1221554	Soil	25	0.43	115	0.054	2	1.15	0.012	0.06	1.0	0.02	2.0	0.1	<0.05	4	<0.5	<0.2
1221555	Soil	31	0.38	83	0.060	1	1.77	0.008	0.06	0.8	0.04	2.0	0.2	<0.05	6	<0.5	<0.2
1221556	Soil	8	0.12	107	0.004	2	0.62	0.006	0.06	<0.1	0.05	1.0	<0.1	<0.05	2	<0.5	<0.2
1221557	Soil	13	0.23	115	0.006	<1	0.75	0.004	0.06	0.1	0.03	1.5	<0.1	<0.05	2	<0.5	<0.2
1221558	Soil	10	0.12	66	0.004	1	0.44	0.003	0.05	<0.1	0.05	1.3	<0.1	<0.05	1	<0.5	<0.2
1221559	Soil	13	0.18	130	0.008	<1	0.57	0.005	0.06	<0.1	0.03	1.7	<0.1	<0.05	2	<0.5	<0.2
1221560	Soil	10	0.21	39	0.003	<1	0.63	0.003	0.05	0.1	0.04	0.8	<0.1	<0.05	2	<0.5	<0.2
1221561	Soil	17	0.24	80	0.015	<1	0.89	0.005	0.04	0.1	0.03	1.4	<0.1	<0.05	3	<0.5	<0.2
1221562	Soil	39	0.52	127	0.058	<1	1.56	0.007	0.16	1.0	0.02	2.4	0.2	<0.05	5	<0.5	<0.2
1221563	Soil	21	0.38	129	0.016	<1	1.13	0.005	0.04	0.2	0.04	1.5	<0.1	<0.05	4	<0.5	<0.2
1221564	Soil	13	0.21	107	0.003	<1	0.56	0.003	0.03	0.1	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1221565	Soil	38	0.72	147	0.004	2	1.03	0.004	0.04	<0.1	0.04	4.1	0.1	<0.05	3	<0.5	<0.2
1221566	Soil	32	0.93	88	0.005	2	1.19	0.004	0.04	<0.1	0.04	3.6	<0.1	0.08	4	<0.5	<0.2
1221567	Soil	20	0.51	98	0.004	2	0.82	0.004	0.05	0.2	0.06	2.6	<0.1	0.07	3	0.5	<0.2
1221568	Soil	20	1.00	89	0.004	1	1.17	0.004	0.04	<0.1	0.04	2.0	<0.1	0.12	3	<0.5	<0.2
1221569	Soil	13	0.29	89	0.004	2	0.47	0.004	0.05	0.2	0.04	2.1	<0.1	0.12	2	<0.5	<0.2
1221570	Soil	16	0.26	120	0.004	3	0.47	0.005	0.04	0.1	0.04	1.5	<0.1	0.14	2	<0.5	<0.2
1221571	Soil	18	0.76	118	0.007	2	1.01	0.006	0.04	<0.1	0.03	1.9	<0.1	0.13	3	<0.5	<0.2
1221572	Soil	17	0.71	123	0.003	2	0.88	0.005	0.05	<0.1	0.04	1.7	<0.1	0.15	3	<0.5	<0.2
1221573	Soil	17	0.40	114	0.005	2	0.66	0.006	0.05	0.1	0.03	2.5	<0.1	0.17	2	<0.5	<0.2
1221574	Soil	18	0.49	132	0.006	2	0.84	0.005	0.05	0.2	0.04	2.7	<0.1	0.12	3	<0.5	<0.2
1221575	Soil	14	0.45	91	0.005	2	0.69	0.005	0.05	0.2	0.04	2.2	<0.1	0.11	2	<0.5	<0.2
1221576	Soil	24	0.26	171	0.004	2	0.62	0.004	0.04	0.2	0.05	3.9	<0.1	0.10	2	<0.5	<0.2
1221577	Soil	90	0.99	295	0.143	1	1.60	0.007	0.20	0.3	0.01	2.9	0.3	<0.05	5	<0.5	<0.2

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	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
1221578	Soil	1.0	16.4	14.5	54	<0.1	19.7	12.0	428	2.98	11.9	2.0	4.3	15	0.2	1.2	0.2	54	0.17	0.049	14
1221579	Soil	1.0	13.9	14.2	53	<0.1	17.4	10.7	313	3.20	12.7	1.8	4.8	13	0.2	1.2	0.2	73	0.13	0.043	12
1221580	Soil	1.2	25.4	29.4	82	<0.1	18.5	16.7	422	5.15	12.5	<0.5	7.3	15	0.2	3.1	0.3	129	0.16	0.064	10
1221581	Soil	2.0	15.9	17.5	36	0.1	13.0	4.9	99	1.90	11.6	6.0	0.5	10	0.2	1.5	0.3	50	0.05	0.044	15
1221582	Soil	0.8	16.0	13.1	42	<0.1	16.3	5.3	134	1.95	11.0	3.3	1.4	9	0.1	1.7	0.2	27	0.06	0.037	27
1221583	Soil	0.8	15.8	15.1	43	<0.1	15.2	6.8	188	2.36	11.3	4.2	1.0	9	0.1	1.1	0.2	36	0.07	0.056	21
1221584	Soil	0.7	27.0	17.3	68	<0.1	28.4	11.9	398	2.86	19.8	3.3	7.3	12	0.1	2.0	0.2	27	0.10	0.045	29
1221585	Soil	0.8	21.3	13.9	57	<0.1	21.0	7.6	264	2.38	11.3	2.2	5.2	11	0.2	1.8	0.2	32	0.10	0.041	20
1221586	Soil	0.7	20.1	14.6	51	<0.1	19.3	8.3	276	2.43	12.0	2.7	4.0	9	0.1	2.0	0.2	29	0.07	0.036	22
1221587	Soil	0.8	15.9	14.2	42	<0.1	15.7	5.7	164	2.39	11.2	4.1	1.6	9	<0.1	1.1	0.2	35	0.07	0.045	17
1221588	Soil	0.8	8.2	17.0	28	<0.1	10.0	3.0	84	1.74	9.5	2.6	0.9	8	<0.1	1.0	0.2	32	0.06	0.040	17
1221589	Soil	0.7	9.3	14.1	30	<0.1	10.1	3.4	82	1.86	9.4	2.8	0.7	7	<0.1	1.1	0.2	30	0.05	0.030	15
1221590	Soil	0.8	9.0	21.7	27	<0.1	9.3	3.3	87	1.75	13.8	6.9	0.5	9	<0.1	1.5	0.2	30	0.07	0.036	16
1221591	Soil	0.7	10.0	20.5	36	<0.1	10.2	3.9	99	1.86	16.1	4.5	1.4	9	0.1	1.3	0.2	36	0.07	0.031	14
1221592	Soil	0.8	12.3	16.0	46	<0.1	14.1	6.3	288	2.49	16.7	1.9	1.5	8	0.2	2.3	0.2	35	0.06	0.036	14
1221593	Soil	0.8	12.3	15.5	41	0.2	14.2	6.8	214	2.27	16.3	2.8	1.8	11	0.1	3.7	0.2	36	0.09	0.045	14
1221594	Soil	0.9	14.4	15.8	47	<0.1	14.1	6.3	166	2.09	17.3	6.5	1.4	9	0.1	2.9	0.3	26	0.07	0.044	17
1221595	Soil	0.7	11.3	13.1	36	<0.1	11.2	4.2	118	2.13	17.9	5.2	2.8	8	<0.1	2.9	0.2	27	0.06	0.028	18
1221596	Soil	0.7	12.6	15.3	44	0.1	13.1	6.9	224	2.04	20.5	7.6	1.8	9	<0.1	2.0	0.2	27	0.07	0.045	17
1221597	Soil	0.9	15.9	15.5	56	<0.1	17.9	9.4	363	2.75	41.1	16.7	4.4	8	0.2	1.5	0.3	28	0.04	0.033	20

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

CERTIFICATE OF ANALYSIS WHI11001005.1

	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
1221578	Soil	55	0.52	210	0.075	1	1.42	0.007	0.08	0.2	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
1221579	Soil	76	0.68	174	0.129	2	1.35	0.007	0.17	0.3	0.03	3.0	0.3	<0.05	5	<0.5	<0.2
1221580	Soil	191	1.41	231	0.289	<1	1.92	0.006	0.27	0.2	0.01	6.5	0.6	<0.05	8	<0.5	<0.2
1221581	Soil	29	0.16	74	0.031	1	0.87	0.008	0.05	0.2	0.05	1.0	0.1	<0.05	5	<0.5	<0.2
1221582	Soil	19	0.26	73	0.016	1	0.96	0.005	0.04	0.1	0.04	1.1	<0.1	<0.05	4	<0.5	<0.2
1221583	Soil	28	0.34	90	0.018	2	1.30	0.006	0.05	0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1221584	Soil	21	0.37	103	0.020	<1	1.05	0.004	0.04	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
1221585	Soil	21	0.37	119	0.022	<1	1.04	0.006	0.04	0.2	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
1221586	Soil	22	0.31	90	0.018	<1	1.19	0.005	0.04	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1221587	Soil	24	0.32	95	0.020	2	1.26	0.005	0.04	0.2	0.04	1.7	<0.1	<0.05	4	<0.5	<0.2
1221588	Soil	20	0.22	55	0.016	1	0.93	0.004	0.03	0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
1221589	Soil	18	0.22	55	0.014	<1	0.89	0.005	0.03	0.1	0.04	0.9	<0.1	<0.05	4	<0.5	<0.2
1221590	Soil	19	0.21	57	0.019	1	0.94	0.006	0.04	0.1	0.05	0.9	<0.1	<0.05	4	0.5	<0.2
1221591	Soil	23	0.27	67	0.023	1	1.03	0.005	0.04	0.2	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1221592	Soil	23	0.27	58	0.018	1	1.06	0.006	0.03	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
1221593	Soil	26	0.29	122	0.016	<1	1.06	0.005	0.04	0.2	0.03	1.6	<0.1	0.06	4	<0.5	<0.2
1221594	Soil	17	0.25	58	0.013	<1	0.87	0.004	0.04	0.2	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
1221595	Soil	15	0.21	63	0.012	<1	0.84	0.004	0.03	0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1221596	Soil	19	0.27	81	0.014	<1	0.99	0.004	0.03	0.2	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
1221597	Soil	17	0.23	60	0.015	<1	0.98	0.004	0.03	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 13, 2011

QUALITY CONTROL REPORT WHI11001005.1

	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																					
1203510	Soil	1.7	26.7	17.2	55	0.3	23.6	9.6	296	2.84	441.8	17.7	2.1	31	<0.1	6.4	1.8	29	0.23	0.071	21
REP 1203510	QC	1.6	25.1	16.2	52	0.3	21.9	8.7	272	2.58	408.7	19.0	2.0	29	0.1	6.1	1.7	27	0.21	0.066	20
1203525	Soil	1.0	17.7	11.7	49	<0.1	17.4	7.4	216	2.88	115.2	14.7	5.8	15	<0.1	0.8	1.9	56	0.14	0.048	16
REP 1203525	QC	1.0	16.9	11.6	48	<0.1	16.8	7.1	204	2.78	114.8	45.2	5.7	14	0.2	0.9	1.8	55	0.14	0.049	16
1203547	Soil	0.7	33.8	47.3	94	0.2	22.5	11.7	424	3.05	29.8	5.0	4.5	15	0.3	7.6	0.3	52	0.15	0.068	28
REP 1203547	QC	0.8	32.8	47.5	90	0.2	22.6	11.6	432	3.00	29.6	6.2	4.7	15	0.3	6.7	0.3	52	0.15	0.067	26
1221065	Soil	0.8	20.7	13.4	51	<0.1	24.9	12.2	337	2.33	24.3	3.7	5.6	9	0.2	2.9	0.2	35	0.07	0.033	24
REP 1221065	QC	0.9	20.5	13.4	55	<0.1	25.6	12.2	336	2.36	25.2	3.9	5.6	9	0.3	3.1	0.2	36	0.07	0.035	24
1221090	Soil	1.1	13.5	17.4	42	0.1	12.0	4.3	131	2.17	12.9	3.3	0.9	6	0.2	0.7	0.2	30	0.04	0.038	20
REP 1221090	QC	1.1	13.9	17.2	43	0.1	11.6	4.4	130	2.15	12.8	2.8	1.2	6	<0.1	0.7	0.2	30	0.05	0.041	19
1221098	Soil	0.9	9.2	15.7	35	<0.1	10.7	3.9	109	1.63	9.7	2.0	0.4	9	<0.1	0.5	0.2	36	0.06	0.041	15
REP 1221098	QC	1.0	9.9	15.7	35	<0.1	10.7	3.7	106	1.58	9.6	4.4	0.4	9	<0.1	0.4	0.2	34	0.07	0.039	14
1221305	Soil	1.0	23.6	18.6	70	<0.1	25.3	9.3	405	2.61	14.1	12.7	4.5	9	0.2	0.9	0.2	35	0.09	0.043	18
REP 1221305	QC	1.0	24.1	19.7	72	<0.1	25.3	9.2	420	2.68	14.3	2.9	4.5	10	0.2	1.0	0.2	36	0.09	0.044	19
1220851	Soil	0.6	29.4	12.7	69	0.1	22.5	9.3	174	2.96	11.6	<0.5	18.0	16	0.1	1.1	0.4	9	0.14	0.033	56
REP 1220851	QC	0.6	28.2	12.6	68	0.1	22.1	9.3	168	2.88	11.4	<0.5	17.6	15	<0.1	1.2	0.4	8	0.13	0.031	55
1220871	Soil	1.1	22.1	27.5	58	0.1	19.2	10.7	323	2.68	106.1	7.4	2.3	11	<0.1	4.5	0.9	33	0.09	0.058	16
REP 1220871	QC	0.9	23.6	28.4	59	0.1	19.5	11.0	349	2.76	109.1	4.7	2.2	12	0.2	4.6	0.9	34	0.09	0.058	18
1220884	Soil	1.4	31.5	16.8	52	0.1	15.8	6.6	180	2.87	98.5	6.7	3.4	13	0.1	1.9	0.7	28	0.04	0.050	32
REP 1220884	QC	1.2	30.2	16.4	52	0.1	16.0	6.4	178	2.61	99.3	3.0	3.6	12	<0.1	1.8	0.7	28	0.05	0.052	34
1221345	Soil	0.6	21.5	9.2	49	<0.1	17.9	7.5	233	2.09	13.9	1.9	3.5	14	0.2	0.6	0.2	33	0.16	0.062	17
REP 1221345	QC	0.6	21.2	9.0	50	<0.1	17.8	7.4	232	2.10	13.8	2.6	3.6	14	<0.1	0.6	0.2	32	0.17	0.058	16
1221363	Soil	0.8	26.8	14.5	58	<0.1	22.0	9.5	257	2.36	12.9	3.1	4.0	13	0.2	1.3	0.2	35	0.12	0.056	23
REP 1221363	QC	0.9	27.2	14.8	60	0.1	22.1	9.4	251	2.33	13.1	6.4	3.9	13	0.2	1.3	0.3	34	0.13	0.056	23
1221378	Soil	0.9	10.8	12.0	40	0.1	11.7	4.5	131	1.65	14.1	1.9	0.8	10	0.1	0.7	0.2	28	0.09	0.046	13
REP 1221378	QC	0.9	11.1	12.9	43	0.1	12.5	4.8	137	1.74	14.8	6.3	0.7	11	0.1	0.7	0.2	30	0.10	0.051	14
1221399	Soil	0.9	13.0	12.1	46	0.2	13.1	5.1	167	2.06	9.5	2.5	0.8	10	0.1	0.4	0.2	36	0.10	0.054	16
REP 1221399	QC	0.8	13.3	12.3	46	0.1	13.1	4.6	163	1.98	9.0	8.0	0.8	10	0.1	0.4	0.2	35	0.10	0.051	15

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QUALITY CONTROL REPORT WHI11001005.1

	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																	
1203510	Soil	25	0.24	144	0.008	2	0.88	0.006	0.08	0.2	0.04	1.7	0.2	<0.05	3	<0.5	<0.2
REP 1203510	QC	23	0.22	131	0.008	2	0.83	0.006	0.08	0.2	0.05	1.5	0.2	<0.05	3	<0.5	<0.2
1203525	Soil	31	0.48	85	0.100	<1	1.59	0.009	0.08	1.7	0.03	2.3	0.2	<0.05	6	<0.5	<0.2
REP 1203525	QC	31	0.46	82	0.098	1	1.55	0.009	0.08	1.5	0.03	2.3	0.2	<0.05	6	<0.5	<0.2
1203547	Soil	51	0.56	158	0.052	1	1.43	0.005	0.08	0.1	0.02	3.7	0.2	<0.05	5	0.7	<0.2
REP 1203547	QC	52	0.55	153	0.051	<1	1.40	0.005	0.08	0.1	0.02	3.9	0.2	<0.05	5	<0.5	<0.2
1221065	Soil	26	0.33	100	0.025	<1	1.24	0.005	0.06	0.1	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
REP 1221065	QC	27	0.33	101	0.024	<1	1.26	0.005	0.05	0.1	0.01	1.9	0.1	<0.05	4	<0.5	<0.2
1221090	Soil	19	0.24	73	0.013	<1	0.95	0.004	0.04	0.2	0.02	0.5	0.1	<0.05	4	<0.5	<0.2
REP 1221090	QC	19	0.25	69	0.013	1	0.97	0.004	0.04	0.1	0.03	0.7	0.1	<0.05	4	<0.5	<0.2
1221098	Soil	20	0.27	78	0.017	<1	0.94	0.007	0.04	0.1	0.04	0.5	0.1	<0.05	4	<0.5	<0.2
REP 1221098	QC	20	0.26	80	0.016	<1	0.92	0.005	0.04	0.1	0.02	0.6	0.1	<0.05	4	<0.5	<0.2
1221305	Soil	25	0.42	120	0.022	3	1.44	0.005	0.04	0.2	0.03	2.2	<0.1	<0.05	4	0.8	<0.2
REP 1221305	QC	25	0.43	120	0.021	2	1.49	0.006	0.04	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
1220851	Soil	12	0.07	16	<0.001	<1	0.37	0.003	0.06	0.2	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
REP 1220851	QC	11	0.07	16	<0.001	<1	0.37	0.003	0.06	0.2	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
1220871	Soil	24	0.32	65	0.024	1	1.07	0.006	0.06	0.2	0.04	1.3	<0.1	<0.05	4	0.7	<0.2
REP 1220871	QC	25	0.32	70	0.027	<1	1.08	0.006	0.07	0.2	0.05	1.4	<0.1	<0.05	4	0.7	<0.2
1220884	Soil	21	0.38	68	0.014	<1	1.21	0.007	0.04	<0.1	0.03	1.2	<0.1	<0.05	4	0.6	<0.2
REP 1220884	QC	21	0.39	68	0.020	<1	1.28	0.007	0.05	0.2	0.03	1.3	0.1	<0.05	4	0.6	<0.2
1221345	Soil	22	0.40	132	0.039	1	1.20	0.006	0.04	0.2	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
REP 1221345	QC	21	0.39	128	0.036	1	1.18	0.006	0.03	0.2	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2
1221363	Soil	24	0.47	140	0.039	2	1.24	0.005	0.06	0.2	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
REP 1221363	QC	23	0.46	142	0.040	1	1.24	0.005	0.06	0.2	0.04	2.5	0.2	<0.05	4	<0.5	<0.2
1221378	Soil	18	0.30	65	0.016	1	0.86	0.005	0.03	0.2	0.05	0.9	<0.1	<0.05	3	0.5	<0.2
REP 1221378	QC	19	0.31	70	0.018	1	0.93	0.005	0.03	0.2	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
1221399	Soil	20	0.34	70	0.023	<1	1.06	0.006	0.03	0.3	0.03	1.2	<0.1	<0.05	4	0.7	<0.2
REP 1221399	QC	20	0.33	70	0.022	<1	1.03	0.005	0.03	0.2	0.04	1.2	<0.1	<0.05	4	<0.5	<0.2

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Report Date: November 13, 2011

QUALITY CONTROL REPORT WHI11001005.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
1221541	Soil	0.9	22.1	24.5	61	0.1	19.3	8.0	312	2.45	17.8	3.7	1.9	13	0.2	2.5	0.2	37	0.14	0.065	18
REP 1221541	QC	0.9	20.9	23.5	58	0.1	20.4	7.7	300	2.39	17.4	1.9	1.8	13	<0.1	2.4	0.2	36	0.14	0.064	18
1221564	Soil	0.9	25.4	52.9	67	0.5	18.5	10.9	760	1.57	6.9	4.6	4.9	39	0.4	2.3	0.3	13	0.69	0.061	21
REP 1221564	QC	0.9	24.7	51.6	66	0.5	18.9	10.9	755	1.56	7.1	2.9	4.9	40	0.3	2.1	0.3	14	0.68	0.063	21
1221577	Soil	0.9	24.1	19.3	69	<0.1	24.0	14.8	480	3.32	30.0	3.6	7.4	21	0.1	1.6	0.2	64	0.24	0.087	18
REP 1221577	QC	0.8	25.4	19.6	70	<0.1	25.1	15.1	494	3.38	29.9	1.7	7.6	22	0.1	1.6	0.2	66	0.26	0.089	19
1221594	Soil	0.9	14.4	15.8	47	<0.1	14.1	6.3	166	2.09	17.3	6.5	1.4	9	0.1	2.9	0.3	26	0.07	0.044	17
REP 1221594	QC	0.9	14.5	15.7	49	<0.1	14.4	6.3	171	2.18	18.4	8.1	1.5	10	0.1	3.0	0.3	27	0.06	0.045	18
Reference Materials																					
STD DS8	Standard	13.5	115.2	117.2	314	1.8	39.9	7.7	614	2.49	25.1	114.2	6.2	69	2.3	5.2	6.5	41	0.71	0.079	14
STD DS8	Standard	12.6	100.5	125.8	287	1.7	34.8	6.9	561	2.31	25.2	112.0	7.0	64	2.2	5.1	5.7	39	0.64	0.070	15
STD DS8	Standard	13.6	112.3	127.6	318	1.9	38.7	7.6	620	2.52	26.2	110.6	6.8	70	2.7	6.2	6.9	43	0.68	0.084	16
STD DS8	Standard	13.5	107.4	120.5	311	1.7	37.3	7.5	601	2.42	25.7	132.0	6.2	68	2.5	5.7	6.1	43	0.68	0.080	15
STD DS8	Standard	13.0	114.0	128.2	327	1.9	39.2	7.7	623	2.50	24.8	112.9	7.0	71	2.3	5.9	6.9	43	0.71	0.081	15
STD DS8	Standard	12.6	104.6	125.2	308	1.8	36.7	7.1	600	2.37	24.4	125.3	7.1	74	2.5	6.2	7.0	41	0.66	0.080	16
STD DS8	Standard	11.8	100.6	120.1	294	1.7	35.2	6.8	579	2.31	23.7	105.8	6.4	66	2.2	5.6	6.2	38	0.65	0.076	15
STD DS8	Standard	11.6	103.4	123.4	297	1.7	33.1	7.2	571	2.30	24.2	107.2	6.9	61	2.2	4.7	6.0	40	0.64	0.071	14
STD DS8	Standard	12.6	96.1	117.2	289	1.6	31.5	6.8	566	2.18	23.7	116.5	6.7	66	2.4	5.2	6.5	37	0.63	0.071	15
STD DS8	Standard	12.5	111.1	124.0	313	1.8	37.2	7.4	606	2.44	25.9	113.6	6.9	70	2.4	5.8	6.8	42	0.67	0.081	14
STD DS8	Standard	11.8	103.0	120.6	291	1.7	36.0	7.0	580	2.38	23.1	98.9	6.7	69	2.1	5.4	6.1	40	0.69	0.074	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
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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Acme Analytical Laboratories (Vancouver) Ltd.
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Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

QUALITY CONTROL REPORT WHI11001005.1

		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
1221541	Soil	27	0.44	131	0.035	<1	1.07	0.006	0.05	0.2	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
REP 1221541	QC	27	0.44	126	0.032	<1	1.06	0.006	0.05	0.2	0.02	1.7	0.1	<0.05	4	<0.5	<0.2
1221564	Soil	13	0.21	107	0.003	<1	0.56	0.003	0.03	0.1	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
REP 1221564	QC	13	0.21	108	0.003	1	0.57	0.003	0.03	0.1	0.04	1.6	<0.1	<0.05	2	<0.5	<0.2
1221577	Soil	90	0.99	295	0.143	1	1.60	0.007	0.20	0.3	0.01	2.9	0.3	<0.05	5	<0.5	<0.2
REP 1221577	QC	92	1.00	300	0.151	2	1.61	0.007	0.21	0.3	0.02	2.9	0.3	<0.05	6	<0.5	<0.2
1221594	Soil	17	0.25	58	0.013	<1	0.87	0.004	0.04	0.2	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
REP 1221594	QC	18	0.25	57	0.015	1	0.87	0.005	0.04	0.2	0.02	1.2	<0.1	0.05	3	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	113	0.61	289	0.111	2	0.91	0.105	0.44	3.0	0.20	2.5	5.4	0.16	5	5.3	5.5
STD DS8	Standard	108	0.60	275	0.114	4	0.87	0.091	0.40	3.0	0.21	2.1	5.2	0.11	4	5.1	4.8
STD DS8	Standard	120	0.63	302	0.126	2	0.96	0.095	0.43	3.0	0.22	2.1	5.8	0.17	5	5.2	5.0
STD DS8	Standard	121	0.60	305	0.121	2	0.94	0.102	0.44	3.0	0.20	2.8	5.2	0.16	5	5.0	5.2
STD DS8	Standard	119	0.63	286	0.121	3	0.94	0.096	0.44	3.2	0.21	2.6	5.4	0.16	5	5.4	5.0
STD DS8	Standard	112	0.62	285	0.123	3	0.92	0.095	0.41	2.9	0.19	2.2	5.4	0.11	5	4.5	4.6
STD DS8	Standard	109	0.58	274	0.113	2	0.86	0.094	0.41	3.1	0.22	2.3	5.2	0.13	5	5.6	5.4
STD DS8	Standard	112	0.59	259	0.109	2	0.84	0.084	0.38	2.7	0.20	2.0	5.2	0.18	4	4.1	5.4
STD DS8	Standard	106	0.54	272	0.110	2	0.88	0.105	0.41	2.5	0.16	2.5	5.0	0.14	5	5.0	4.2
STD DS8	Standard	117	0.62	280	0.114	3	0.93	0.113	0.44	3.0	0.20	3.3	5.6	0.16	5	5.6	5.2
STD DS8	Standard	104	0.58	265	0.116	1	0.92	0.096	0.40	2.7	0.19	2.8	5.2	0.17	5	3.2	5.1
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 13, 2011

QUALITY CONTROL REPORT WHI11001005.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
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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		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 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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Client: **Goldspike Exploration Inc.**
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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: August 12, 2011
Report Date: November 17, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS WHI11001006.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO(9-21)
P.O. Number
Number of Samples: 210

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	175	Dry at 60C			WHI
SS80	175	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	175	Saving all or part of Soil Reject			WHI
1DX2	173	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

	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
1221598	Soil	1.1	19.0	16.2	45	<0.1	16.5	9.1	231	2.90	92.7	3.1	6.8	11	0.2	2.3	0.8	39	0.06	0.032	21
1221599	Soil	1.6	17.6	15.1	42	0.3	13.6	5.8	181	2.70	101.2	4.2	5.9	9	<0.1	4.4	0.9	42	0.04	0.032	22
1221600	Soil	1.4	26.6	34.3	69	0.5	26.5	9.9	216	3.11	259.9	29.0	8.7	12	0.1	23.4	1.9	29	0.03	0.023	30
1221601	Soil	1.4	16.7	13.7	41	0.4	14.8	5.3	133	2.30	134.9	2.9	4.7	9	0.1	9.5	0.8	32	0.03	0.024	28
1221602	Soil	1.2	13.7	11.4	30	0.2	7.6	2.8	102	2.41	60.1	1.5	5.4	11	<0.1	1.0	0.7	42	0.04	0.022	17
1221603	Soil	1.2	22.0	16.3	47	0.3	15.2	6.9	198	3.38	34.7	1.7	7.4	10	0.2	1.5	0.4	43	0.05	0.033	19
1221604	Soil	1.2	27.2	25.2	70	0.3	24.2	10.0	250	3.29	200.3	48.6	7.0	11	0.2	17.6	2.1	28	0.04	0.037	35
1221605	Soil	0.8	22.3	14.9	59	0.2	20.8	8.6	251	2.40	43.2	5.2	4.2	15	0.2	4.6	0.4	24	0.10	0.046	25
1221606	Soil	0.9	25.9	18.8	67	<0.1	24.3	9.8	280	2.78	34.2	6.3	7.5	15	0.2	3.5	0.4	27	0.10	0.048	29
1221607	Soil	1.3	40.5	24.9	86	0.2	35.6	16.3	370	4.22	117.5	13.8	7.7	18	0.2	4.3	0.7	21	0.11	0.047	32
1221608	Soil	1.5	31.4	16.9	66	0.1	28.7	12.2	301	3.11	43.2	7.7	3.9	13	0.1	2.8	0.5	27	0.07	0.050	24
1221609	Soil	0.9	26.2	13.8	66	<0.1	23.7	9.5	295	2.60	59.0	3.0	7.6	18	0.3	2.6	0.4	33	0.16	0.052	23
1221610	Soil	0.8	17.1	12.8	56	<0.1	17.0	6.3	218	2.20	32.7	4.6	2.6	15	0.2	1.9	0.3	31	0.13	0.045	19
1221612	Soil	1.4	37.1	25.4	88	0.2	38.8	17.2	681	3.50	31.4	4.0	6.2	16	0.3	1.0	0.3	43	0.13	0.084	36
1221613	Soil	1.3	22.0	15.6	58	0.1	20.9	8.6	382	2.66	18.2	3.2	0.5	15	0.3	0.7	0.3	40	0.10	0.099	20
1221614	Soil	1.1	21.8	14.5	61	<0.1	22.3	9.4	413	2.73	15.0	2.2	1.2	14	0.3	0.6	0.2	39	0.10	0.069	27
1221615	Soil	1.1	22.6	23.4	73	0.1	22.9	8.9	396	2.85	13.1	3.5	2.6	13	0.2	0.8	0.3	45	0.11	0.065	23
1221616	Soil	1.1	23.7	19.0	67	0.2	20.8	11.1	456	2.78	14.8	2.1	1.4	15	0.2	0.8	0.3	41	0.10	0.084	25
1221617	Soil	1.2	23.3	15.6	65	0.1	21.9	8.4	320	2.61	14.7	3.4	3.2	13	0.2	0.7	0.2	37	0.10	0.058	23
1221618	Soil	1.2	23.7	15.8	70	<0.1	21.9	7.5	281	2.59	13.6	5.6	3.9	14	0.3	0.7	0.2	37	0.12	0.058	25
1221619	Soil	1.0	21.8	13.9	71	0.2	20.4	8.0	309	2.71	13.3	1.7	2.9	16	0.2	0.6	0.2	44	0.12	0.060	19
1221620	Soil	1.1	20.1	15.3	64	<0.1	18.5	6.6	229	2.50	14.4	3.5	2.5	12	0.2	0.8	0.2	41	0.10	0.056	18
1221621	Soil	1.0	13.4	23.5	49	0.1	12.1	5.6	253	2.56	16.7	1.5	0.3	11	0.1	0.7	0.2	42	0.09	0.105	15
1221622	Soil	1.1	13.0	19.6	48	0.1	13.7	4.9	173	2.29	16.0	3.0	0.5	11	0.2	0.7	0.2	42	0.08	0.064	16
1221623	Soil	1.1	11.5	13.3	39	<0.1	10.8	3.7	118	1.85	12.0	1.3	0.3	10	0.1	0.6	0.2	42	0.06	0.052	13
1221624	Soil	1.2	15.0	13.1	49	<0.1	13.0	5.1	174	2.38	11.7	4.5	0.9	11	0.1	0.6	0.2	44	0.08	0.050	15
1221625	Soil	1.0	14.8	16.0	49	<0.1	13.4	5.2	187	2.31	13.7	2.0	1.4	11	<0.1	0.7	0.2	42	0.08	0.056	19
1221626	Soil	0.9	20.6	14.7	59	<0.1	17.5	6.1	224	2.31	12.2	5.1	3.4	12	0.1	0.6	0.2	39	0.10	0.058	24
1221627	Soil	0.8	14.9	14.7	49	<0.1	13.3	4.5	172	2.28	11.7	3.3	0.8	10	<0.1	0.6	0.2	44	0.07	0.050	18
1221628	Soil	0.8	16.2	11.7	50	<0.1	14.9	5.5	205	2.14	10.0	1.4	2.5	12	0.2	0.7	0.2	36	0.12	0.057	18

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

	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
1221598	Soil	21	0.34	70	0.025	2	1.49	0.006	0.04	0.2	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
1221599	Soil	16	0.19	53	0.026	1	1.09	0.005	0.03	0.2	0.07	1.4	<0.1	<0.05	5	<0.5	<0.2
1221600	Soil	16	0.20	70	0.015	<1	1.03	0.004	0.04	0.2	0.05	1.5	0.1	<0.05	3	<0.5	<0.2
1221601	Soil	10	0.10	43	0.015	1	0.69	0.005	0.03	0.2	0.03	0.9	0.1	<0.05	4	<0.5	<0.2
1221602	Soil	13	0.19	79	0.026	<1	0.95	0.006	0.03	0.2	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
1221603	Soil	23	0.34	71	0.023	<1	1.65	0.005	0.04	0.2	0.05	1.7	<0.1	<0.05	5	<0.5	<0.2
1221604	Soil	17	0.22	60	0.013	2	1.08	0.005	0.05	0.2	0.04	1.6	0.1	<0.05	3	<0.5	<0.2
1221605	Soil	16	0.31	107	0.019	1	0.81	0.006	0.04	0.2	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
1221606	Soil	17	0.32	92	0.026	1	0.83	0.006	0.05	0.5	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
1221607	Soil	15	0.30	82	0.014	<1	0.86	0.007	0.04	0.3	0.03	1.9	<0.1	<0.05	3	<0.5	<0.2
1221608	Soil	19	0.34	73	0.020	<1	1.07	0.006	0.05	0.4	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
1221609	Soil	23	0.42	114	0.055	<1	1.00	0.007	0.07	0.8	0.01	2.1	0.1	<0.05	3	<0.5	<0.2
1221610	Soil	21	0.38	107	0.032	<1	1.07	0.006	0.05	0.6	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
1221612	Soil	35	0.59	159	0.041	1	1.76	0.007	0.07	0.4	0.05	2.9	0.1	<0.05	5	<0.5	<0.2
1221613	Soil	26	0.42	149	0.023	2	1.39	0.010	0.05	0.3	0.07	1.2	0.2	0.06	5	<0.5	<0.2
1221614	Soil	26	0.47	126	0.029	1	1.53	0.008	0.05	0.3	0.04	1.4	0.2	<0.05	4	<0.5	<0.2
1221615	Soil	28	0.51	120	0.040	<1	1.58	0.007	0.05	0.3	0.05	2.3	0.2	<0.05	5	<0.5	<0.2
1221616	Soil	27	0.46	173	0.027	1	1.51	0.007	0.06	0.3	0.06	1.6	0.6	<0.05	5	<0.5	<0.2
1221617	Soil	24	0.48	100	0.035	<1	1.41	0.006	0.06	0.3	0.05	1.9	0.3	<0.05	4	<0.5	<0.2
1221618	Soil	24	0.48	99	0.042	1	1.34	0.007	0.06	0.3	0.03	1.9	0.2	<0.05	4	<0.5	<0.2
1221619	Soil	28	0.53	146	0.045	<1	1.55	0.008	0.06	0.2	0.04	2.2	0.2	<0.05	5	<0.5	<0.2
1221620	Soil	24	0.42	112	0.036	1	1.24	0.006	0.05	0.3	0.05	1.7	0.2	<0.05	4	<0.5	<0.2
1221621	Soil	22	0.33	88	0.017	<1	1.20	0.006	0.05	0.3	0.04	0.7	0.2	<0.05	5	<0.5	<0.2
1221622	Soil	24	0.37	101	0.022	1	1.34	0.007	0.05	0.3	0.04	1.0	0.2	<0.05	5	<0.5	<0.2
1221623	Soil	20	0.30	90	0.021	<1	1.12	0.006	0.04	0.2	0.04	0.8	0.2	<0.05	5	<0.5	<0.2
1221624	Soil	25	0.41	86	0.032	<1	1.37	0.006	0.04	0.3	0.04	1.4	0.2	<0.05	5	<0.5	<0.2
1221625	Soil	25	0.40	83	0.029	<1	1.34	0.006	0.05	0.3	0.07	1.5	0.2	<0.05	5	<0.5	<0.2
1221626	Soil	24	0.43	86	0.042	1	1.42	0.006	0.06	0.4	0.04	1.9	0.2	<0.05	5	<0.5	<0.2
1221627	Soil	25	0.41	87	0.028	<1	1.42	0.006	0.04	0.3	0.04	1.3	0.1	<0.05	5	<0.5	<0.2
1221628	Soil	22	0.38	70	0.037	<1	1.20	0.006	0.04	0.3	0.04	1.4	0.1	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 17, 2011

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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
1221629	Soil	0.9	15.2	12.7	54	<0.1	14.5	5.3	215	2.30	11.1	1.3	1.6	11	0.2	0.6	0.2	42	0.09	0.051	18
1221630	Soil	0.8	15.4	11.4	49	<0.1	14.6	4.9	173	2.14	9.1	<0.5	1.0	11	0.1	0.5	0.2	38	0.10	0.059	18
1221631	Soil	0.9	17.2	12.5	53	<0.1	15.0	6.0	239	2.32	10.7	2.2	1.2	10	<0.1	0.5	0.2	40	0.08	0.050	21
1221632	Soil	0.8	15.0	10.5	43	<0.1	13.7	4.1	135	2.01	18.9	2.8	0.8	9	<0.1	0.6	0.2	33	0.08	0.048	18
1221633	Soil	0.8	10.2	13.2	37	<0.1	10.5	4.3	148	2.05	10.5	0.8	0.9	9	<0.1	0.5	0.2	40	0.06	0.029	16
1221634	Soil	1.0	18.6	23.4	62	<0.1	19.1	10.4	448	2.58	12.7	2.3	4.9	10	0.2	0.6	0.2	36	0.07	0.049	19
1221635	Soil	1.4	16.8	12.4	30	0.1	8.8	3.4	134	1.81	8.0	21.9	0.2	10	<0.1	0.5	0.2	36	0.06	0.060	8
1221636	Soil	0.7	16.2	12.4	46	<0.1	13.9	5.3	186	1.87	8.3	5.6	1.7	10	<0.1	0.5	0.2	33	0.11	0.048	17
1221637	Soil	0.9	11.9	14.7	42	<0.1	12.6	4.5	152	2.21	10.6	2.6	0.7	9	<0.1	0.5	0.2	40	0.09	0.047	15
1221638	Soil	1.0	14.1	18.2	48	<0.1	14.4	5.7	214	2.60	14.6	7.1	1.3	10	<0.1	0.6	0.3	45	0.09	0.048	16
1221639	Soil	0.8	16.9	14.6	49	<0.1	16.4	6.2	222	2.34	12.5	3.2	2.3	10	<0.1	0.6	0.2	40	0.09	0.049	16
1221640	Soil	0.9	15.3	11.6	45	<0.1	13.9	4.7	152	2.15	11.1	1.8	1.7	10	0.1	0.5	0.2	40	0.10	0.049	16
1221641	Soil	0.7	13.1	9.6	37	<0.1	11.7	3.9	118	1.86	10.4	5.5	0.7	10	<0.1	0.5	0.2	37	0.11	0.052	15
1221642	Soil	0.7	18.4	10.7	46	<0.1	17.1	5.7	176	2.14	16.1	10.2	2.0	11	<0.1	0.5	0.2	38	0.12	0.052	15
1221643	Soil	0.6	18.3	9.2	45	<0.1	15.4	5.1	148	2.11	12.9	2.6	1.0	11	<0.1	0.6	0.2	36	0.12	0.053	14
1221644	Soil	0.7	29.1	15.1	75	0.2	32.3	16.5	260	3.16	22.4	10.5	5.9	21	0.3	0.6	0.2	36	0.26	0.075	26
1221645	Soil	1.4	24.4	35.7	61	0.4	25.8	13.0	406	3.10	25.1	2.1	4.4	9	0.2	1.0	0.3	33	0.09	0.064	20
1221646	Soil	0.8	12.4	11.9	34	<0.1	11.5	4.1	123	1.89	16.9	6.7	1.1	9	<0.1	0.4	0.2	34	0.09	0.037	14
1221647	Soil	0.9	14.2	12.5	41	<0.1	13.7	5.5	185	2.14	18.6	7.9	1.3	10	<0.1	0.5	0.2	35	0.08	0.039	14
1221870	Soil	0.9	10.1	15.5	34	<0.1	10.5	3.6	108	1.79	6.4	0.9	0.6	8	<0.1	0.5	0.2	27	0.06	0.070	20
1221871	Soil	0.7	14.7	16.2	44	<0.1	14.3	5.9	227	2.11	9.3	2.6	0.7	11	0.1	0.6	0.2	36	0.09	0.054	19
1221872	Soil	0.6	25.9	24.8	66	<0.1	22.1	10.0	414	2.44	9.7	1.4	4.6	15	0.1	2.6	0.2	30	0.13	0.050	32
1221873	Soil	0.5	21.5	18.8	63	<0.1	21.7	8.1	327	2.16	8.6	2.3	5.4	15	0.2	1.8	0.2	27	0.14	0.045	26
1221874	Soil	0.6	10.1	16.6	38	<0.1	11.6	4.2	154	1.91	8.3	0.8	0.6	9	<0.1	1.0	0.2	34	0.08	0.047	19
1221875	Soil	0.6	15.0	15.6	47	<0.1	16.3	5.6	190	2.11	8.5	2.3	3.1	8	<0.1	1.2	0.2	29	0.06	0.041	25
1221876	Soil	0.5	32.5	18.7	70	<0.1	29.6	12.1	315	2.83	17.2	1.5	9.3	10	<0.1	3.4	0.3	20	0.07	0.035	47
1221877	Soil	0.7	14.3	16.8	38	<0.1	13.9	4.6	118	1.98	6.9	2.4	0.6	8	<0.1	1.5	0.2	30	0.06	0.044	22
1221878	Soil	0.7	12.9	19.6	43	<0.1	14.1	5.4	183	1.84	8.0	2.9	1.4	9	<0.1	1.4	0.2	33	0.07	0.035	22
1221879	Soil	0.7	19.4	17.6	57	<0.1	18.2	7.4	252	2.16	8.6	5.1	4.3	11	0.1	1.6	0.2	30	0.09	0.035	25
1221880	Soil	0.6	12.0	28.0	40	<0.1	12.0	4.0	107	1.77	7.0	1.4	1.0	8	0.1	1.4	0.2	29	0.07	0.044	24

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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
1221629	Soil	26	0.45	79	0.038	<1	1.45	0.006	0.05	0.3	0.03	1.7	0.1	<0.05	5	<0.5	<0.2
1221630	Soil	24	0.40	76	0.030	<1	1.26	0.006	0.04	0.2	0.03	1.4	0.1	<0.05	4	<0.5	<0.2
1221631	Soil	26	0.42	97	0.030	<1	1.37	0.005	0.04	0.2	0.05	1.6	0.2	<0.05	5	<0.5	<0.2
1221632	Soil	21	0.35	70	0.019	<1	1.24	0.005	0.04	0.2	0.04	1.2	0.2	<0.05	4	<0.5	<0.2
1221633	Soil	22	0.33	66	0.028	<1	1.17	0.005	0.04	0.2	0.03	1.3	0.1	<0.05	5	<0.5	<0.2
1221634	Soil	22	0.38	100	0.036	<1	1.29	0.005	0.05	0.2	0.03	2.3	0.2	<0.05	4	<0.5	<0.2
1221635	Soil	18	0.20	46	0.025	1	1.14	0.013	0.03	0.2	0.03	1.0	<0.1	0.07	5	0.6	<0.2
1221636	Soil	19	0.34	85	0.029	1	1.07	0.005	0.04	0.2	0.05	1.6	0.1	<0.05	4	<0.5	<0.2
1221637	Soil	22	0.34	72	0.023	1	1.18	0.005	0.04	0.2	0.03	1.1	0.1	<0.05	4	<0.5	<0.2
1221638	Soil	25	0.37	76	0.031	1	1.31	0.006	0.05	0.2	0.04	1.5	0.2	<0.05	5	<0.5	<0.2
1221639	Soil	23	0.38	96	0.035	1	1.24	0.005	0.04	0.2	0.04	2.2	0.1	<0.05	4	0.7	<0.2
1221640	Soil	23	0.35	78	0.033	<1	1.13	0.006	0.04	0.3	0.04	1.6	<0.1	<0.05	4	<0.5	<0.2
1221641	Soil	21	0.32	61	0.029	1	1.11	0.004	0.04	0.2	0.05	1.3	<0.1	<0.05	4	0.7	<0.2
1221642	Soil	22	0.40	99	0.036	<1	1.24	0.006	0.04	0.3	0.04	2.1	0.1	<0.05	4	<0.5	<0.2
1221643	Soil	19	0.36	93	0.029	1	1.09	0.006	0.04	0.2	0.03	1.5	0.1	<0.05	3	<0.5	<0.2
1221644	Soil	24	0.55	176	0.042	1	1.28	0.012	0.06	0.5	0.06	2.7	0.2	<0.05	4	0.8	<0.2
1221645	Soil	24	0.34	46	0.027	1	1.10	0.004	0.04	0.5	0.05	1.3	<0.1	<0.05	4	<0.5	<0.2
1221646	Soil	19	0.29	74	0.027	<1	1.12	0.005	0.04	0.6	0.04	1.2	0.1	<0.05	4	0.5	<0.2
1221647	Soil	20	0.34	79	0.026	1	1.15	0.005	0.04	0.7	0.04	1.4	0.1	<0.05	4	<0.5	<0.2
1221870	Soil	17	0.24	70	0.008	<1	1.12	0.004	0.04	<0.1	0.04	0.5	0.1	<0.05	4	<0.5	<0.2
1221871	Soil	21	0.32	128	0.023	<1	1.27	0.005	0.04	0.1	0.03	1.5	0.1	<0.05	5	0.6	<0.2
1221872	Soil	24	0.48	160	0.037	<1	1.20	0.005	0.08	0.1	0.03	2.1	0.1	<0.05	4	<0.5	<0.2
1221873	Soil	19	0.39	187	0.030	<1	1.03	0.006	0.05	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1221874	Soil	22	0.31	80	0.017	<1	1.21	0.004	0.04	0.1	0.02	1.1	0.1	<0.05	5	<0.5	<0.2
1221875	Soil	21	0.36	104	0.022	<1	1.22	0.004	0.04	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
1221876	Soil	22	0.52	94	0.016	1	1.41	0.004	0.04	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1221877	Soil	21	0.30	92	0.013	<1	1.29	0.006	0.03	<0.1	0.04	1.0	0.1	<0.05	5	<0.5	<0.2
1221878	Soil	21	0.30	110	0.022	<1	1.24	0.004	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
1221879	Soil	21	0.37	126	0.027	2	1.23	0.006	0.04	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
1221880	Soil	20	0.28	79	0.017	<1	1.24	0.005	0.04	0.1	0.02	1.2	0.1	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

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
1221881	Soil	0.7	11.9	22.9	42	<0.1	13.2	4.6	139	1.84	6.9	3.4	1.2	10	0.2	1.1	0.2	32	0.08	0.047	23
1221882	Soil	0.6	13.6	14.7	39	<0.1	12.0	4.2	129	1.82	8.5	2.8	0.5	11	<0.1	0.6	0.2	33	0.11	0.062	17
1221883	Soil	0.9	16.0	13.0	57	0.1	15.5	7.2	249	2.29	9.8	2.8	1.4	12	0.2	0.9	0.2	39	0.12	0.073	17
1221884	Soil	0.7	12.1	8.2	43	<0.1	11.4	5.1	161	1.78	8.2	3.1	0.8	12	<0.1	0.6	0.1	33	0.14	0.060	14
1221885	Soil	0.7	15.8	8.6	46	<0.1	14.4	5.3	179	1.89	10.9	4.3	1.8	12	<0.1	1.1	0.1	35	0.14	0.053	17
1221886	Soil	0.7	19.0	12.3	48	<0.1	16.8	5.1	152	1.89	12.1	3.6	2.3	12	0.3	1.6	0.1	32	0.15	0.053	17
1221887	Soil	0.7	12.5	9.1	42	<0.1	12.8	4.1	119	1.76	12.0	2.7	1.2	12	<0.1	1.5	0.2	32	0.12	0.057	16
1221888	Soil	0.8	13.0	8.8	42	<0.1	12.1	4.3	126	1.85	12.8	3.1	1.2	11	<0.1	1.8	0.2	34	0.10	0.047	15
1221889	Soil	0.7	10.5	8.8	34	<0.1	10.8	3.5	96	1.59	10.8	5.0	0.8	10	<0.1	1.3	0.2	32	0.11	0.052	15
1221890	Soil	0.8	15.1	12.7	42	<0.1	14.9	6.1	219	2.41	11.0	2.4	4.2	9	0.1	0.7	0.2	37	0.08	0.030	15
1221891	Soil	1.0	27.2	16.4	56	0.2	15.5	6.0	230	2.87	12.3	3.9	5.1	14	0.1	0.7	0.3	32	0.07	0.051	29
1221892	Soil	1.0	15.1	12.3	35	<0.1	10.5	3.7	113	2.06	7.3	9.5	0.8	11	<0.1	0.5	0.2	36	0.06	0.046	18
1221893	Soil	1.0	29.3	23.4	71	0.2	21.9	9.0	268	2.61	16.1	8.3	5.7	13	0.4	0.8	0.4	36	0.12	0.058	23
1221894	Soil	1.0	22.3	27.8	55	0.2	15.9	7.0	210	2.48	14.4	14.1	2.4	10	<0.1	0.7	0.6	35	0.07	0.049	21
1221895	Soil	1.4	43.0	21.4	77	0.2	20.4	10.2	300	3.87	12.9	5.5	10.3	16	0.1	0.6	0.5	32	0.06	0.050	47
1221896	Soil	1.4	31.6	15.9	64	0.2	18.4	8.5	250	3.21	11.2	4.6	5.8	13	<0.1	0.7	0.3	36	0.08	0.050	31
1221897	Soil	1.1	28.2	13.6	59	0.1	19.2	7.1	243	2.74	10.1	4.2	6.5	12	<0.1	0.6	0.3	36	0.08	0.042	27
1221898	Soil	0.9	15.5	15.8	47	0.2	12.8	5.8	194	2.41	13.3	6.0	1.1	10	<0.1	0.9	0.3	38	0.08	0.057	18
1221899	Soil	1.2	25.0	32.7	64	0.1	23.7	10.6	343	3.17	25.4	5.3	3.1	11	<0.1	2.7	0.3	39	0.08	0.049	21
1221900	Soil	1.5	24.5	22.3	60	<0.1	19.1	8.0	221	3.02	16.1	7.2	1.8	11	0.1	2.2	0.4	41	0.07	0.063	24
1221901	Soil	1.7	21.8	23.0	59	0.2	20.6	7.6	299	2.77	37.7	7.0	1.1	11	0.2	2.6	0.3	38	0.09	0.077	25
1221902	Soil	1.6	22.3	20.2	50	<0.1	16.4	6.1	224	2.66	14.5	4.6	2.1	13	0.1	1.1	0.3	43	0.11	0.062	19
1221903	Soil	1.5	22.6	20.5	66	0.1	22.0	9.1	307	3.01	15.0	2.4	2.9	14	0.2	1.3	0.4	42	0.13	0.071	20
1221904	Soil	1.0	18.7	15.7	56	<0.1	18.2	6.8	198	2.44	13.9	9.3	1.9	12	<0.1	1.4	0.2	43	0.12	0.062	19
1221905	Soil	0.8	21.8	12.3	55	<0.1	18.9	6.8	225	2.43	12.8	8.0	2.4	13	<0.1	1.0	0.2	41	0.14	0.062	18
1221906	Soil	1.0	9.4	11.4	26	<0.1	8.5	2.9	84	1.58	8.3	7.9	0.2	9	<0.1	0.6	0.2	35	0.06	0.060	13
1221907	Soil	0.8	16.6	9.7	49	<0.1	13.6	5.2	155	2.24	11.0	7.4	1.4	11	<0.1	0.8	0.2	38	0.11	0.054	14
1221908	Soil	0.9	15.5	11.2	47	<0.1	15.4	6.5	233	2.25	11.8	4.3	1.0	11	<0.1	0.9	0.2	37	0.09	0.045	16
1221909	Soil	0.9	8.3	12.1	21	<0.1	6.3	2.0	63	1.16	6.4	5.5	0.1	9	<0.1	0.5	0.2	24	0.06	0.044	12
1221910	Soil	1.1	19.9	18.7	53	<0.1	18.9	7.5	240	2.51	13.3	14.8	3.7	13	<0.1	1.7	0.2	41	0.13	0.054	21

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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
1221881	Soil	20	0.31	96	0.023	<1	1.20	0.007	0.03	0.1	0.02	1.3	0.1	<0.05	4	<0.5	<0.2
1221882	Soil	21	0.30	109	0.020	1	1.17	0.006	0.04	0.1	0.04	1.1	0.1	<0.05	4	<0.5	<0.2
1221883	Soil	24	0.39	159	0.028	1	1.43	0.009	0.04	0.1	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
1221884	Soil	19	0.32	109	0.026	1	1.10	0.005	0.04	0.1	0.05	1.3	<0.1	<0.05	4	<0.5	<0.2
1221885	Soil	20	0.34	151	0.034	2	1.14	0.011	0.04	0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
1221886	Soil	20	0.35	102	0.037	2	1.16	0.008	0.04	0.2	0.04	2.0	<0.1	<0.05	3	<0.5	<0.2
1221887	Soil	21	0.33	78	0.029	2	1.19	0.005	0.04	0.2	0.03	1.3	0.1	<0.05	4	<0.5	<0.2
1221888	Soil	21	0.34	96	0.028	2	1.20	0.005	0.04	0.2	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
1221889	Soil	20	0.29	84	0.027	1	1.15	0.004	0.04	0.1	0.04	1.4	0.1	<0.05	4	<0.5	<0.2
1221890	Soil	20	0.32	76	0.032	1	1.27	0.009	0.04	0.2	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
1221891	Soil	21	0.43	95	0.023	<1	1.36	0.005	0.04	0.3	0.05	1.6	<0.1	<0.05	4	<0.5	<0.2
1221892	Soil	18	0.23	55	0.019	1	0.98	0.008	0.04	0.2	0.05	0.9	<0.1	<0.05	4	<0.5	<0.2
1221893	Soil	21	0.40	91	0.026	3	1.14	0.008	0.03	0.3	0.04	1.7	<0.1	0.11	3	0.5	<0.2
1221894	Soil	20	0.40	78	0.018	2	1.35	0.004	0.04	0.2	0.05	1.5	0.1	0.12	4	<0.5	<0.2
1221895	Soil	23	0.57	73	0.025	2	1.43	0.004	0.03	0.2	0.01	1.8	<0.1	0.07	4	0.5	<0.2
1221896	Soil	23	0.45	103	0.024	1	1.32	0.005	0.03	0.1	0.03	2.1	<0.1	0.06	4	1.1	<0.2
1221897	Soil	25	0.48	102	0.029	1	1.34	0.006	0.04	0.2	0.03	2.6	<0.1	<0.05	4	0.9	<0.2
1221898	Soil	22	0.38	77	0.022	3	1.30	0.005	0.03	0.2	0.03	1.5	<0.1	<0.05	4	0.9	<0.2
1221899	Soil	26	0.42	92	0.024	1	1.30	0.004	0.05	0.2	0.01	1.8	0.1	<0.05	4	0.8	<0.2
1221900	Soil	33	0.44	83	0.023	2	1.50	0.005	0.06	0.2	0.05	1.6	0.1	0.05	5	1.7	<0.2
1221901	Soil	19	0.16	71	0.024	4	0.74	0.008	0.06	0.2	0.03	1.1	<0.1	0.12	4	2.7	<0.2
1221902	Soil	23	0.34	69	0.028	1	1.15	0.005	0.04	0.3	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1221903	Soil	27	0.44	100	0.033	2	1.24	0.006	0.05	0.2	0.03	1.7	0.2	0.06	4	0.7	<0.2
1221904	Soil	24	0.42	92	0.030	2	1.30	0.006	0.04	0.2	0.04	1.7	0.1	<0.05	4	<0.5	<0.2
1221905	Soil	23	0.41	96	0.034	2	1.26	0.005	0.04	0.2	0.05	2.2	0.1	<0.05	4	0.9	<0.2
1221906	Soil	20	0.22	57	0.012	3	0.91	0.003	0.02	0.2	0.04	0.4	0.1	<0.05	4	<0.5	<0.2
1221907	Soil	22	0.35	81	0.025	2	1.21	0.004	0.04	0.2	0.04	1.6	<0.1	<0.05	4	<0.5	<0.2
1221908	Soil	21	0.36	84	0.024	2	1.11	0.004	0.04	0.2	0.01	1.3	0.1	<0.05	4	1.3	<0.2
1221909	Soil	15	0.14	62	0.009	2	0.67	0.006	0.04	<0.1	0.05	0.3	<0.1	0.05	3	1.2	<0.2
1221910	Soil	25	0.41	130	0.032	2	1.24	0.005	0.03	0.2	0.03	2.1	<0.1	<0.05	4	0.7	<0.2

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		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
1221911	Soil		1.1	23.0	19.4	59	<0.1	20.0	8.5	307	2.42	16.2	3.8	3.2	13	<0.1	4.6	0.2	41	0.13	0.054	20
1221912	Soil		1.0	17.4	12.6	48	<0.1	16.8	6.4	212	2.21	16.8	7.2	1.3	12	<0.1	1.4	0.2	42	0.12	0.055	16
1221913	Soil		0.7	20.3	10.2	53	<0.1	17.8	6.8	260	2.16	14.6	3.6	2.2	13	<0.1	1.4	0.2	38	0.14	0.050	18
1221914	Soil		0.9	19.0	13.4	48	<0.1	15.5	6.5	239	2.20	11.9	4.9	1.5	13	0.1	1.8	0.2	39	0.13	0.059	19
1221915	Soil		0.8	19.0	8.0	47	<0.1	17.9	7.2	316	2.22	11.9	3.0	2.2	15	<0.1	0.9	0.1	39	0.16	0.066	20
1221916	Soil		0.8	17.5	12.3	49	<0.1	20.2	10.1	328	2.30	12.4	4.3	3.3	16	0.1	1.9	0.1	37	0.17	0.075	15
1221917	Soil		0.6	19.9	7.3	60	0.1	18.5	8.9	334	1.97	10.1	12.1	4.3	20	0.2	0.7	0.1	35	0.22	0.074	16
1221918	Soil		0.9	21.8	7.3	64	<0.1	19.6	9.3	366	2.30	11.9	2.6	2.9	18	0.2	0.8	0.1	38	0.19	0.073	16
1221919	Soil		0.8	19.1	7.5	45	<0.1	15.6	5.1	144	2.27	11.3	3.8	0.9	22	<0.1	0.8	0.1	38	0.12	0.053	13
1221920	Soil		0.7	22.5	7.7	52	<0.1	15.7	6.6	233	2.13	10.3	3.4	3.1	16	<0.1	0.8	0.1	34	0.16	0.063	15
1221921	Soil		1.4	22.3	18.3	69	0.3	25.5	18.6	571	3.47	73.1	7.8	2.8	21	<0.1	0.9	0.4	44	0.20	0.068	24
1221922	Soil		1.4	17.2	15.0	57	0.2	20.1	9.8	308	2.35	44.1	6.5	2.4	18	<0.1	0.8	0.3	38	0.18	0.068	24
1221923	Soil		1.3	16.5	17.8	62	0.3	22.5	12.1	685	2.72	52.5	9.0	3.8	28	<0.1	0.7	0.3	42	0.28	0.063	25
1221924	Soil		0.9	24.4	12.1	70	0.1	24.3	9.4	375	2.60	21.0	7.5	4.4	17	<0.1	0.9	0.2	41	0.15	0.068	24
1221925	Soil		1.1	22.7	13.5	74	0.1	24.2	9.9	418	2.81	19.9	8.7	2.8	15	0.1	0.8	0.3	43	0.13	0.066	22
1221926	Soil		1.1	20.9	11.9	45	0.2	17.2	5.2	225	2.44	12.9	6.2	0.7	16	<0.1	0.6	0.3	38	0.10	0.090	31
1221927	Soil		1.1	19.1	11.7	60	<0.1	20.2	7.1	286	2.57	15.1	8.5	2.2	15	0.1	0.7	0.2	42	0.11	0.057	23
1221928	Soil		1.1	21.9	11.1	59	<0.1	22.3	7.8	340	2.90	16.1	7.1	2.6	13	<0.1	0.7	0.3	40	0.09	0.054	30
1221929	Soil		1.2	21.9	14.3	55	0.2	17.9	6.1	222	2.14	12.3	3.5	0.7	13	0.4	0.6	0.4	36	0.09	0.090	18
1221930	Soil		0.9	15.7	9.9	49	<0.1	15.7	5.0	168	1.95	8.8	2.3	1.4	9	0.1	0.5	0.3	32	0.08	0.045	20
1221931	Soil		0.8	23.3	11.7	55	<0.1	19.5	6.8	197	2.22	13.2	5.4	3.9	10	0.3	0.6	0.3	31	0.10	0.061	24
1221932	Soil		0.7	20.4	9.0	50	<0.1	16.4	6.2	189	1.94	9.3	4.2	3.6	10	0.2	0.6	0.2	30	0.11	0.059	21
1221933	Soil		0.9	17.5	12.2	45	0.1	14.3	4.5	145	2.09	11.2	2.4	1.1	8	0.2	0.5	0.3	32	0.05	0.058	26
1221934	Soil		0.8	14.7	13.9	42	<0.1	12.8	4.0	131	1.92	10.4	1.3	0.9	8	0.1	0.5	0.3	30	0.06	0.049	25
1221935	Soil		0.9	16.0	13.4	49	<0.1	14.3	5.5	219	2.18	12.4	3.2	1.3	8	0.2	0.6	0.3	35	0.07	0.051	19
1221936	Soil		0.9	14.8	14.9	49	0.1	15.3	5.6	218	2.21	12.5	15.3	0.8	9	<0.1	0.5	0.2	36	0.07	0.066	17
1221937	Soil		0.8	17.7	10.9	61	<0.1	18.9	8.0	402	2.27	13.1	5.2	2.1	13	0.1	0.6	0.3	36	0.13	0.068	16
1221938	Soil		0.6	10.5	10.6	43	<0.1	12.6	5.6	226	1.81	10.7	11.9	1.1	10	0.1	0.4	0.2	35	0.09	0.046	16
1221939	Soil		1.0	15.0	14.8	55	<0.1	17.0	7.1	309	2.28	11.9	1.4	0.9	8	0.1	0.6	0.2	36	0.06	0.051	20
1221940	Soil		0.9	15.5	18.3	46	<0.1	13.5	4.6	157	2.11	10.9	5.6	0.5	10	0.2	0.6	0.3	40	0.08	0.054	14

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

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
1221911	Soil	23	0.41	170	0.037	<1	1.25	0.005	0.04	0.2	0.02	2.5	<0.1	<0.05	4	0.8	<0.2
1221912	Soil	24	0.41	83	0.029	3	1.16	0.005	0.04	0.2	0.03	1.8	<0.1	<0.05	4	1.2	<0.2
1221913	Soil	23	0.40	111	0.034	1	1.11	0.006	0.04	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
1221914	Soil	23	0.36	81	0.029	1	1.12	0.005	0.04	0.3	0.04	1.5	<0.1	<0.05	4	1.0	<0.2
1221915	Soil	22	0.36	172	0.033	1	1.06	0.005	0.03	0.3	0.03	2.4	<0.1	<0.05	3	0.9	<0.2
1221916	Soil	20	0.38	99	0.037	<1	1.18	0.006	0.04	0.3	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
1221917	Soil	20	0.42	153	0.042	<1	1.18	0.008	0.04	0.3	0.02	2.3	<0.1	<0.05	3	0.9	<0.2
1221918	Soil	20	0.41	141	0.038	2	1.15	0.007	0.03	0.2	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
1221919	Soil	19	0.34	104	0.024	<1	1.03	0.006	0.03	0.2	0.03	1.4	<0.1	<0.05	3	0.5	<0.2
1221920	Soil	18	0.40	149	0.032	2	1.10	0.005	0.03	0.1	0.03	2.5	<0.1	<0.05	3	0.8	<0.2
1221921	Soil	27	0.54	200	0.032	1	1.56	0.007	0.05	1.0	0.03	2.4	0.2	0.05	4	0.9	<0.2
1221922	Soil	23	0.50	200	0.028	<1	1.41	0.007	0.04	1.1	0.02	1.8	0.2	0.05	4	0.8	<0.2
1221923	Soil	26	0.52	237	0.034	2	1.47	0.007	0.05	1.1	0.04	2.2	0.2	<0.05	4	1.0	<0.2
1221924	Soil	25	0.53	124	0.035	2	1.32	0.010	0.05	0.3	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
1221925	Soil	27	0.52	116	0.034	2	1.37	0.006	0.05	0.3	0.03	1.9	0.1	<0.05	4	<0.5	<0.2
1221926	Soil	25	0.39	130	0.015	<1	1.26	0.006	0.04	0.2	0.03	1.0	0.1	0.13	5	1.1	<0.2
1221927	Soil	25	0.45	118	0.022	2	1.16	0.005	0.04	0.4	0.05	1.4	0.1	<0.05	4	0.6	<0.2
1221928	Soil	26	0.49	85	0.019	2	1.25	0.005	0.03	0.3	0.03	1.4	0.1	0.06	4	<0.5	<0.2
1221929	Soil	24	0.35	148	0.017	2	1.10	0.006	0.04	0.3	0.05	1.0	0.1	0.10	4	0.5	<0.2
1221930	Soil	22	0.35	71	0.024	4	1.07	0.004	0.03	0.2	0.04	1.1	0.1	<0.05	4	<0.5	<0.2
1221931	Soil	21	0.37	65	0.030	1	1.16	0.004	0.03	0.3	0.04	1.8	0.2	<0.05	4	0.6	<0.2
1221932	Soil	21	0.34	59	0.030	1	1.13	0.004	0.03	0.3	0.05	1.7	0.2	<0.05	3	0.7	<0.2
1221933	Soil	21	0.32	60	0.016	<1	1.10	0.004	0.03	0.3	0.05	0.9	0.2	<0.05	4	<0.5	<0.2
1221934	Soil	19	0.30	66	0.015	<1	1.00	0.005	0.03	0.3	0.06	0.8	0.2	<0.05	4	<0.5	<0.2
1221935	Soil	22	0.32	64	0.022	1	1.09	0.004	0.03	0.3	0.04	1.1	0.2	<0.05	4	<0.5	<0.2
1221936	Soil	24	0.40	75	0.027	2	1.21	0.006	0.04	0.3	0.04	1.1	0.2	<0.05	5	0.7	<0.2
1221937	Soil	24	0.39	94	0.027	<1	1.26	0.005	0.03	0.3	0.03	1.5	0.2	<0.05	4	<0.5	<0.2
1221938	Soil	19	0.30	81	0.021	<1	0.98	0.005	0.03	0.3	0.05	1.1	0.1	<0.05	4	<0.5	<0.2
1221939	Soil	23	0.34	76	0.019	<1	1.11	0.005	0.03	0.3	0.03	1.0	0.2	<0.05	4	0.5	<0.2
1221940	Soil	21	0.33	69	0.033	1	0.95	0.008	0.04	0.3	0.05	1.0	0.2	<0.05	4	<0.5	<0.2

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Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

		Method	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
1221941	Soil		0.6	15.6	16.4	61	0.6	30.9	7.3	210	1.86	20.9	5.2	0.9	27	0.3	1.0	0.3	23	0.33	0.084	34
1221942	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.
1221943	Soil		0.6	12.9	103.6	53	8.8	15.0	5.0	114	1.90	23.7	4.5	0.8	14	0.1	2.0	0.2	30	0.13	0.069	18
1221944	Soil		0.5	11.3	10.7	43	0.2	15.0	4.5	110	1.58	8.8	7.9	1.5	14	<0.1	0.4	0.1	28	0.16	0.062	20
1221945	Soil		1.0	20.1	13.6	48	0.2	15.2	5.7	152	2.16	10.2	3.2	1.8	9	0.1	1.5	0.3	28	0.05	0.046	23
1221946	Soil		1.0	17.5	14.4	33	0.3	10.7	3.8	89	2.09	10.6	2.6	2.3	7	<0.1	1.0	0.3	27	0.04	0.038	28
1221947	Soil		1.2	14.3	13.0	47	<0.1	14.3	7.3	223	2.65	15.8	3.6	5.2	9	0.1	0.6	0.3	41	0.07	0.034	13
1221948	Soil		0.9	20.1	13.6	42	<0.1	12.0	4.3	122	2.24	9.8	6.3	5.7	7	0.1	0.7	0.3	27	0.05	0.038	24
1221949	Soil		1.1	20.4	17.9	45	0.2	13.7	6.0	146	2.39	11.3	1.7	1.5	8	0.1	0.7	0.3	30	0.05	0.061	24
1221950	Soil		1.0	23.0	15.5	51	0.1	19.9	8.8	174	2.41	16.8	3.1	7.1	9	0.2	0.8	0.3	28	0.05	0.035	26
1223401	Soil		<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
1223402	Soil		<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
1223403	Soil		<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
1223404	Soil		<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
1223405	Soil		<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
1223406	Soil		<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
1223407	Soil		<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
1223408	Soil		<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
1223409	Soil		<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
1223410	Soil		<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
1223411	Soil		<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
1223412	Soil		<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
1223413	Soil		<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
1223414	Soil		<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
1223415	Soil		<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
1223416	Soil		<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
1223417	Soil		<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
1223418	Soil		<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
1223419	Soil		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.6	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001	<1
1223420	Soil		<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	<0.001	<1

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Project: JO
Report Date: November 17, 2011

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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
1221941	Soil	19	0.31	143	0.015	1	1.03	0.008	0.04	0.3	0.05	1.2	0.2	0.06	3	1.4	<0.2
1221942	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.
1221943	Soil	20	0.32	126	0.013	<1	1.36	0.007	0.03	0.3	0.07	1.0	1.0	<0.05	4	0.6	<0.2
1221944	Soil	19	0.32	131	0.019	<1	0.99	0.005	0.03	0.4	0.04	1.2	0.2	<0.05	3	<0.5	<0.2
1221945	Soil	17	0.28	47	0.019	<1	0.95	0.005	0.04	0.2	0.04	1.2	0.3	<0.05	3	<0.5	<0.2
1221946	Soil	17	0.24	51	0.011	<1	0.92	0.004	0.03	0.2	0.05	1.1	0.2	<0.05	3	0.6	<0.2
1221947	Soil	23	0.35	86	0.027	<1	1.43	0.005	0.03	0.2	0.04	2.1	0.1	<0.05	5	0.5	<0.2
1221948	Soil	18	0.31	50	0.018	<1	1.00	0.004	0.03	0.2	0.05	1.4	0.1	<0.05	4	<0.5	<0.2
1221949	Soil	22	0.32	65	0.013	3	1.29	0.006	0.03	0.2	0.06	1.2	0.2	<0.05	4	<0.5	<0.2
1221950	Soil	18	0.30	65	0.019	<1	1.07	0.004	0.03	0.2	0.04	1.6	0.2	<0.05	4	0.6	<0.2
1223401	Soil	<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
1223402	Soil	<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
1223403	Soil	<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
1223404	Soil	<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
1223405	Soil	<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
1223406	Soil	<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
1223407	Soil	<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
1223408	Soil	<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
1223409	Soil	<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
1223410	Soil	<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
1223411	Soil	<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
1223412	Soil	<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
1223413	Soil	<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
1223414	Soil	<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
1223415	Soil	<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
1223416	Soil	<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
1223417	Soil	<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
1223418	Soil	<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
1223419	Soil	<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
1223420	Soil	<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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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

	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
1223421	Soil	<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	<0.001	<1
1223422	Soil	<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	<0.001	<1
1223423	Soil	<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	<0.001	<1
1223424	Soil	<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
1223425	Soil	<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
1223426	Soil	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.9	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
1223427	Soil	<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
1223428	Soil	<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
1223429	Soil	<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
1223430	Soil	<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
1223431	Soil	<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
1223432	Soil	<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
1223433	Soil	<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
1223434	Soil	<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
1223435	Soil	<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
1220896	Soil	1.1	27.7	14.1	63	0.1	22.6	11.0	353	2.78	13.0	2.2	6.3	12	0.2	0.8	0.2	35	0.11	0.042	18
1220897	Soil	1.0	24.5	16.1	57	0.2	23.1	11.3	358	2.34	12.2	6.5	3.2	14	0.2	0.6	0.2	37	0.14	0.058	20
1220898	Soil	1.0	23.5	15.2	58	<0.1	18.6	9.3	296	2.68	10.2	4.8	6.8	12	0.2	0.6	0.3	35	0.11	0.053	21
1220899	Soil	0.8	24.9	13.3	63	0.1	22.6	11.3	374	2.45	9.3	3.5	4.1	9	0.2	0.6	0.2	28	0.08	0.046	22
1220900	Soil	1.5	49.0	16.5	45	1.0	10.5	4.1	145	4.11	11.0	1.7	6.6	12	0.1	0.7	0.6	28	0.03	0.080	38
1220901	Soil	1.6	40.4	17.6	54	0.4	13.8	5.0	155	3.68	25.6	2.9	12.6	11	<0.1	0.8	0.5	31	0.03	0.043	30
1220902	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.
1220903	Soil	1.0	21.3	17.1	51	0.1	17.5	7.0	228	2.71	10.1	0.6	5.4	9	0.1	0.5	0.3	35	0.06	0.039	27
1220904	Soil	1.3	33.4	21.5	76	0.3	32.1	14.8	455	3.04	5.1	2.0	15.6	11	0.4	0.4	0.3	17	0.07	0.053	50
1220905	Soil	1.0	29.8	16.1	65	0.1	17.7	7.9	254	3.12	10.0	6.3	5.8	9	0.2	0.5	0.3	33	0.06	0.043	30
1203401	Soil	1.3	23.4	14.5	62	0.1	20.1	7.6	261	2.50	34.3	5.1	1.4	10	0.2	49.1	0.3	43	0.08	0.054	14
1203402	Soil	1.0	13.7	12.3	37	0.1	13.3	4.5	129	1.89	41.3	5.4	0.5	11	<0.1	8.6	0.3	35	0.09	0.040	13
1203403	Soil	0.8	12.6	11.4	36	<0.1	11.4	3.6	97	1.74	26.8	5.8	0.7	9	0.1	3.4	0.3	36	0.08	0.042	15
1203404	Soil	0.7	16.2	10.6	41	<0.1	13.8	4.6	139	1.86	20.3	2.9	2.1	9	<0.1	2.9	0.2	32	0.08	0.040	19
1203405	Soil	0.9	15.1	12.2	38	<0.1	12.1	3.6	119	1.78	16.7	3.1	0.7	10	<0.1	1.3	0.3	34	0.09	0.045	18

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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
1223421	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223422	Soil	<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
1223423	Soil	<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
1223424	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.08	<1	<0.5	<0.2
1223425	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223426	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223427	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223428	Soil	<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
1223429	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223430	Soil	<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
1223431	Soil	<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
1223432	Soil	<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
1223433	Soil	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.07	<1	<0.5	<0.2
1223434	Soil	<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
1223435	Soil	<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
1220896	Soil	24	0.44	103	0.033	2	1.52	0.007	0.06	0.2	0.04	2.6	<0.1	<0.05	4	0.6	<0.2
1220897	Soil	39	0.43	133	0.033	<1	1.27	0.007	0.07	0.3	0.04	2.4	0.1	<0.05	4	<0.5	<0.2
1220898	Soil	23	0.39	82	0.034	<1	1.33	0.005	0.04	0.2	0.03	2.1	0.2	<0.05	4	<0.5	<0.2
1220899	Soil	20	0.34	71	0.022	<1	1.09	0.004	0.03	0.2	0.04	1.7	0.1	<0.05	3	<0.5	<0.2
1220900	Soil	19	0.32	50	0.015	<1	1.41	0.006	0.05	0.1	0.09	1.5	0.2	0.10	5	1.3	<0.2
1220901	Soil	21	0.41	51	0.016	<1	1.35	0.007	0.04	0.1	0.04	1.5	0.1	<0.05	5	<0.5	<0.2
1220902	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.
1220903	Soil	21	0.35	51	0.022	<1	1.13	0.004	0.03	0.2	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
1220904	Soil	13	0.19	53	0.014	<1	0.63	0.003	0.03	0.2	0.03	1.8	0.1	<0.05	2	<0.5	<0.2
1220905	Soil	20	0.41	73	0.024	<1	1.17	0.004	0.03	0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1203401	Soil	26	0.37	91	0.030	<1	1.22	0.006	0.04	0.2	0.04	2.0	0.1	0.06	4	0.6	<0.2
1203402	Soil	23	0.33	91	0.016	<1	1.05	0.006	0.04	0.2	0.04	0.9	0.1	<0.05	4	<0.5	<0.2
1203403	Soil	22	0.33	58	0.019	<1	1.11	0.004	0.03	0.2	0.04	1.1	0.1	<0.05	4	<0.5	<0.2
1203404	Soil	21	0.37	72	0.024	<1	1.16	0.004	0.03	0.2	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1203405	Soil	21	0.36	70	0.018	<1	1.22	0.005	0.03	0.1	0.04	1.0	<0.1	<0.05	4	<0.5	<0.2

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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
1203406	Soil	0.7	14.5	8.8	41	<0.1	12.2	4.3	107	1.69	16.0	5.4	1.5	9	<0.1	1.1	0.3	27	0.09	0.049	15
1203407	Soil	0.7	13.7	10.7	43	0.1	12.8	4.3	106	1.73	13.4	3.2	0.8	8	0.1	0.9	0.2	30	0.07	0.049	16
1203408	Soil	0.7	16.2	9.0	46	<0.1	13.6	4.8	121	1.94	12.8	2.7	1.8	8	0.1	1.1	0.2	31	0.09	0.051	15
1203409	Soil	0.7	14.3	9.9	41	<0.1	12.9	4.3	104	1.72	12.5	3.9	1.3	8	0.1	1.5	0.2	27	0.09	0.046	15
1203410	Soil	0.8	14.3	10.0	44	<0.1	13.0	4.3	103	1.88	15.1	4.0	1.5	8	0.2	1.9	0.2	31	0.09	0.049	14
1203411	Soil	0.9	9.7	11.8	33	<0.1	9.4	3.2	84	1.52	13.1	4.2	0.2	8	0.1	1.6	0.2	30	0.06	0.048	12
1203412	Soil	0.7	12.8	11.6	44	0.2	13.0	5.9	194	1.91	18.0	3.3	1.5	8	<0.1	2.6	0.2	27	0.09	0.053	16
1203413	Soil	0.6	12.6	7.9	37	<0.1	11.4	4.1	87	1.45	14.2	4.6	1.0	7	0.1	1.6	0.2	24	0.08	0.045	12
1203414	Soil	0.6	17.5	9.5	50	<0.1	16.6	6.2	204	1.92	17.3	1.9	2.2	10	0.1	1.9	0.2	31	0.10	0.049	15
1203415	Soil	0.8	15.9	9.3	43	<0.1	14.5	5.9	166	1.75	16.1	6.7	1.3	9	<0.1	1.7	0.2	28	0.09	0.048	15
1203416	Soil	0.7	15.2	9.8	45	<0.1	13.7	5.1	150	1.87	14.8	3.2	2.4	9	0.1	1.5	0.2	28	0.10	0.046	16
1203417	Soil	0.7	16.6	15.6	50	<0.1	15.2	6.2	162	1.95	18.6	15.9	2.5	9	0.1	1.6	0.2	31	0.09	0.041	19
1203418	Soil	0.8	16.4	12.0	47	<0.1	14.5	5.6	143	1.92	15.8	1.1	2.8	9	0.1	1.4	0.2	33	0.09	0.043	17
1203419	Soil	0.7	15.0	19.4	44	<0.1	13.0	4.9	111	1.85	12.1	1.2	2.9	9	<0.1	1.2	0.2	27	0.08	0.042	21
1203420	Soil	0.8	20.8	13.6	46	<0.1	13.9	5.8	158	2.13	12.8	3.0	2.3	9	0.1	0.9	0.2	32	0.09	0.051	17
1203421	Soil	0.9	11.1	10.1	32	<0.1	9.7	3.6	87	1.46	10.5	1.6	0.6	7	<0.1	0.8	0.2	23	0.06	0.042	16
1203422	Soil	0.8	17.0	9.5	47	<0.1	14.6	6.3	192	1.74	12.6	5.2	1.9	9	0.2	1.1	0.2	27	0.11	0.052	17
1203423	Soil	0.6	13.1	8.4	39	<0.1	11.6	4.5	143	1.63	10.4	5.0	1.6	8	0.1	0.7	0.2	26	0.09	0.044	14
1203424	Soil	0.8	12.2	10.5	39	<0.1	10.7	4.4	139	1.58	14.8	2.5	0.7	8	<0.1	0.8	0.2	27	0.07	0.045	13
1203425	Soil	0.8	11.2	10.7	37	<0.1	10.8	3.6	100	1.71	17.3	4.5	0.7	8	0.1	0.7	0.2	29	0.08	0.042	13
1203426	Soil	0.6	13.8	10.6	41	<0.1	12.8	4.8	135	1.68	19.0	2.6	1.2	9	0.2	0.8	0.2	26	0.09	0.043	13
1203427	Soil	0.8	15.5	9.6	47	<0.1	14.9	5.6	177	1.85	26.1	7.1	2.3	9	0.2	0.9	0.2	28	0.09	0.045	16
1203428	Soil	0.6	14.5	8.5	46	<0.1	14.4	5.6	197	1.70	16.4	3.5	2.2	10	0.2	0.7	0.1	29	0.12	0.053	13
1203429	Soil	1.0	9.7	10.6	33	<0.1	9.2	3.5	111	1.44	15.6	1.7	0.4	8	0.1	0.7	0.2	27	0.05	0.030	13
1203430	Soil	0.7	14.2	9.3	40	<0.1	13.3	4.9	130	1.72	15.8	2.2	1.1	9	0.1	0.5	0.2	29	0.09	0.044	11
1203431	Soil	0.6	12.7	8.6	38	<0.1	11.7	4.1	120	1.68	13.1	2.3	1.1	9	<0.1	0.5	0.2	31	0.09	0.043	13
1203432	Soil	0.9	12.9	12.8	41	0.1	12.3	4.3	104	1.86	10.8	2.1	0.7	8	0.1	0.7	0.2	29	0.06	0.042	16
1203433	Soil	0.8	9.6	13.0	33	<0.1	9.9	3.5	87	1.74	14.9	3.9	0.7	7	<0.1	0.7	0.2	28	0.04	0.036	14
1203434	Soil	0.9	10.3	13.4	32	<0.1	9.7	3.8	117	1.79	12.5	2.1	0.9	7	<0.1	0.7	0.2	30	0.05	0.038	18
1203435	Soil	0.8	11.4	11.9	35	0.1	11.1	4.5	122	1.89	15.6	4.3	1.8	8	<0.1	0.7	0.2	25	0.06	0.035	17

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

CERTIFICATE OF ANALYSIS WHI11001006.1

	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
1203406	Soil	19	0.29	58	0.015	2	1.01	0.003	0.03	0.1	0.03	0.9	<0.1	<0.05	3	0.9	<0.2
1203407	Soil	21	0.32	66	0.013	1	1.12	0.003	0.03	0.1	0.04	0.8	<0.1	<0.05	4	1.0	<0.2
1203408	Soil	20	0.35	69	0.019	2	1.12	0.004	0.03	0.1	0.04	1.3	<0.1	<0.05	4	0.7	<0.2
1203409	Soil	19	0.30	63	0.015	1	1.04	0.003	0.03	0.1	0.03	0.9	<0.1	<0.05	3	0.9	<0.2
1203410	Soil	22	0.33	60	0.015	1	1.20	0.003	0.03	0.2	0.03	1.1	<0.1	<0.05	4	0.8	<0.2
1203411	Soil	20	0.22	53	0.008	1	0.97	0.004	0.03	0.1	0.05	0.4	<0.1	<0.05	4	0.9	<0.2
1203412	Soil	19	0.30	60	0.015	<1	1.00	0.003	0.03	0.1	0.04	1.0	<0.1	<0.05	3	0.6	<0.2
1203413	Soil	16	0.24	59	0.013	<1	0.79	0.003	0.03	0.1	0.04	0.8	<0.1	<0.05	3	0.6	<0.2
1203414	Soil	22	0.34	86	0.022	<1	1.12	0.004	0.03	0.1	0.02	1.5	<0.1	<0.05	3	0.7	<0.2
1203415	Soil	19	0.33	93	0.015	<1	1.06	0.004	0.03	0.1	0.03	1.2	<0.1	<0.05	3	0.6	<0.2
1203416	Soil	19	0.31	66	0.019	<1	1.04	0.004	0.03	0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
1203417	Soil	27	0.36	87	0.022	<1	1.21	0.004	0.04	0.1	0.03	1.4	<0.1	<0.05	4	0.7	<0.2
1203418	Soil	31	0.37	95	0.028	1	1.15	0.004	0.04	0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
1203419	Soil	23	0.30	85	0.017	<1	1.00	0.003	0.03	0.2	0.04	1.2	<0.1	<0.05	3	0.5	<0.2
1203420	Soil	25	0.31	93	0.021	<1	1.16	0.004	0.03	0.2	0.06	1.8	<0.1	<0.05	3	0.6	<0.2
1203421	Soil	17	0.19	43	0.011	<1	0.75	0.004	0.03	0.1	0.05	0.6	<0.1	<0.05	3	0.6	<0.2
1203422	Soil	18	0.28	67	0.019	<1	0.92	0.003	0.03	0.1	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
1203423	Soil	19	0.24	66	0.019	<1	0.93	0.003	0.03	0.2	0.03	1.3	<0.1	<0.05	3	0.6	<0.2
1203424	Soil	20	0.24	61	0.014	<1	0.92	0.004	0.03	0.2	0.04	0.7	<0.1	<0.05	3	0.6	<0.2
1203425	Soil	21	0.25	62	0.016	<1	0.99	0.004	0.03	0.2	0.03	0.8	<0.1	<0.05	4	0.5	<0.2
1203426	Soil	18	0.28	56	0.020	<1	0.84	0.003	0.03	0.2	0.02	0.9	<0.1	<0.05	3	<0.5	<0.2
1203427	Soil	19	0.30	65	0.026	<1	0.86	0.005	0.03	0.2	0.02	1.1	<0.1	<0.05	3	0.6	<0.2
1203428	Soil	17	0.31	72	0.026	<1	0.89	0.004	0.03	0.2	0.03	1.3	<0.1	<0.05	3	0.6	<0.2
1203429	Soil	16	0.19	50	0.015	<1	0.72	0.004	0.03	0.2	0.04	0.6	<0.1	<0.05	3	<0.5	<0.2
1203430	Soil	19	0.25	72	0.019	<1	0.99	0.004	0.03	0.3	0.04	1.1	<0.1	<0.05	3	<0.5	<0.2
1203431	Soil	18	0.25	84	0.019	<1	1.03	0.004	0.03	0.2	0.03	1.1	<0.1	<0.05	3	<0.5	<0.2
1203432	Soil	17	0.22	77	0.012	1	0.91	0.004	0.03	0.1	0.04	0.7	0.1	<0.05	3	0.5	<0.2
1203433	Soil	16	0.18	62	0.012	<1	0.80	0.005	0.03	0.2	0.03	0.7	0.1	<0.05	3	<0.5	<0.2
1203434	Soil	16	0.19	58	0.012	<1	0.81	0.004	0.03	0.2	0.04	0.7	0.1	<0.05	3	<0.5	<0.2
1203435	Soil	15	0.20	85	0.012	<1	0.82	0.004	0.03	0.1	0.03	1.0	0.1	<0.05	3	<0.5	<0.2

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Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

QUALITY CONTROL REPORT WHI11001006.1

	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																					
1221599	Soil	1.6	17.6	15.1	42	0.3	13.6	5.8	181	2.70	101.2	4.2	5.9	9	<0.1	4.4	0.9	42	0.04	0.032	22
REP 1221599	QC	1.7	17.1	14.6	40	0.4	13.1	5.7	176	2.64	99.8	2.4	5.9	9	<0.1	4.4	0.9	41	0.04	0.030	22
1221618	Soil	1.2	23.7	15.8	70	<0.1	21.9	7.5	281	2.59	13.6	5.6	3.9	14	0.3	0.7	0.2	37	0.12	0.058	25
REP 1221618	QC	1.0	23.3	15.3	70	<0.1	22.6	7.7	286	2.67	14.1	2.5	4.0	14	0.3	0.7	0.2	36	0.12	0.059	25
1221872	Soil	0.6	25.9	24.8	66	<0.1	22.1	10.0	414	2.44	9.7	1.4	4.6	15	0.1	2.6	0.2	30	0.13	0.050	32
REP 1221872	QC	0.6	25.8	25.3	68	<0.1	21.9	10.2	416	2.45	10.4	2.9	4.7	15	0.1	2.7	0.2	31	0.13	0.053	32
1221875	Soil	0.6	15.0	15.6	47	<0.1	16.3	5.6	190	2.11	8.5	2.3	3.1	8	<0.1	1.2	0.2	29	0.06	0.041	25
REP 1221875	QC	0.7	14.7	15.0	46	<0.1	16.7	5.6	191	2.12	7.8	2.4	3.2	9	<0.1	1.2	0.2	29	0.07	0.042	26
1221900	Soil	1.5	24.5	22.3	60	<0.1	19.1	8.0	221	3.02	16.1	7.2	1.8	11	0.1	2.2	0.4	41	0.07	0.063	24
REP 1221900	QC	1.2	23.7	22.7	59	<0.1	20.4	7.7	218	3.04	15.5	7.8	1.7	11	<0.1	2.2	0.3	42	0.07	0.064	24
1221923	Soil	1.3	16.5	17.8	62	0.3	22.5	12.1	685	2.72	52.5	9.0	3.8	28	<0.1	0.7	0.3	42	0.28	0.063	25
REP 1221923	QC	1.4	17.7	18.7	65	0.2	24.6	13.1	715	2.87	51.7	6.4	4.2	28	<0.1	0.7	0.3	45	0.30	0.065	25
1221936	Soil	0.9	14.8	14.9	49	0.1	15.3	5.6	218	2.21	12.5	15.3	0.8	9	<0.1	0.5	0.2	36	0.07	0.066	17
REP 1221936	QC	1.0	14.9	14.9	50	0.1	14.5	5.6	220	2.23	12.3	3.2	0.7	9	<0.1	0.6	0.3	37	0.08	0.065	17
1223413	Soil	<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
REP 1223413	QC	<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
1223430	Soil	<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
REP 1223430	QC	<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
1220899	Soil	0.8	24.9	13.3	63	0.1	22.6	11.3	374	2.45	9.3	3.5	4.1	9	0.2	0.6	0.2	28	0.08	0.046	22
REP 1220899	QC	0.9	26.2	13.1	64	0.1	24.5	12.1	390	2.57	9.9	3.0	4.1	9	0.2	0.6	0.2	29	0.08	0.047	24
1203416	Soil	0.7	15.2	9.8	45	<0.1	13.7	5.1	150	1.87	14.8	3.2	2.4	9	0.1	1.5	0.2	28	0.10	0.046	16
REP 1203416	QC	0.6	16.0	9.6	45	<0.1	12.8	5.1	143	1.81	14.2	1.1	2.4	9	0.2	1.4	0.2	28	0.10	0.048	16
Reference Materials																					
STD DS8	Standard	12.6	106.2	119.6	298	1.8	37.1	7.7	589	2.33	24.5	110.6	6.3	61	2.3	4.9	6.2	42	0.66	0.078	14
STD DS8	Standard	14.6	118.7	132.9	342	1.9	43.6	8.7	655	2.63	27.8	135.6	7.4	80	2.2	6.6	7.2	47	0.77	0.083	17
STD DS8	Standard	13.6	110.0	134.6	320	1.8	38.6	7.2	618	2.49	26.0	116.2	7.3	77	2.3	6.5	7.8	42	0.71	0.081	16
STD DS8	Standard	12.6	103.0	125.4	301	1.8	36.3	6.9	597	2.41	24.6	107.8	6.9	71	2.3	5.9	6.5	40	0.68	0.077	15
STD DS8	Standard	13.7	117.1	123.0	305	1.7	38.8	7.6	593	2.40	24.4	112.6	7.1	72	2.3	6.1	7.3	43	0.70	0.069	15

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QUALITY CONTROL REPORT WHI11001006.1

	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																	
1221599	Soil	16	0.19	53	0.026	1	1.09	0.005	0.03	0.2	0.07	1.4	<0.1	<0.05	5	<0.5	<0.2
REP 1221599	QC	16	0.18	52	0.027	1	1.05	0.005	0.03	0.2	0.05	1.2	<0.1	<0.05	5	<0.5	<0.2
1221618	Soil	24	0.48	99	0.042	1	1.34	0.007	0.06	0.3	0.03	1.9	0.2	<0.05	4	<0.5	<0.2
REP 1221618	QC	24	0.48	99	0.042	1	1.34	0.007	0.06	0.3	0.03	2.0	0.2	<0.05	4	<0.5	<0.2
1221872	Soil	24	0.48	160	0.037	<1	1.20	0.005	0.08	0.1	0.03	2.1	0.1	<0.05	4	<0.5	<0.2
REP 1221872	QC	24	0.48	162	0.037	<1	1.20	0.004	0.07	0.1	0.02	2.1	0.1	<0.05	4	<0.5	<0.2
1221875	Soil	21	0.36	104	0.022	<1	1.22	0.004	0.04	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
REP 1221875	QC	21	0.36	102	0.021	<1	1.19	0.008	0.04	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
1221900	Soil	33	0.44	83	0.023	2	1.50	0.005	0.06	0.2	0.05	1.6	0.1	0.05	5	1.7	<0.2
REP 1221900	QC	33	0.44	74	0.022	1	1.43	0.005	0.05	0.1	0.04	1.7	0.1	<0.05	5	1.0	<0.2
1221923	Soil	26	0.52	237	0.034	2	1.47	0.007	0.05	1.1	0.04	2.2	0.2	<0.05	4	1.0	<0.2
REP 1221923	QC	28	0.55	242	0.035	2	1.52	0.009	0.05	1.3	0.04	2.2	0.2	0.06	4	<0.5	<0.2
1221936	Soil	24	0.40	75	0.027	2	1.21	0.006	0.04	0.3	0.04	1.1	0.2	<0.05	5	0.7	<0.2
REP 1221936	QC	25	0.40	76	0.029	1	1.22	0.006	0.04	0.3	0.04	1.1	0.2	0.08	5	<0.5	<0.2
1223413	Soil	<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
REP 1223413	QC	<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
1223430	Soil	<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
REP 1223430	QC	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.08	<1	<0.5	<0.2
1220899	Soil	20	0.34	71	0.022	<1	1.09	0.004	0.03	0.2	0.04	1.7	0.1	<0.05	3	<0.5	<0.2
REP 1220899	QC	21	0.36	78	0.023	<1	1.14	0.004	0.03	0.2	0.04	1.9	0.1	<0.05	3	<0.5	<0.2
1203416	Soil	19	0.31	66	0.019	<1	1.04	0.004	0.03	0.1	0.03	1.2	<0.1	<0.05	3	<0.5	<0.2
REP 1203416	QC	19	0.33	64	0.020	<1	1.06	0.004	0.03	0.2	0.02	1.2	<0.1	<0.05	3	0.5	<0.2
Reference Materials																	
STD DS8	Standard	113	0.55	266	0.108	3	0.83	0.078	0.39	2.9	0.18	1.9	5.3	0.16	5	6.0	4.8
STD DS8	Standard	125	0.68	309	0.124	3	1.02	0.102	0.46	3.3	0.20	2.8	5.9	0.18	5	5.9	5.3
STD DS8	Standard	121	0.64	292	0.132	2	0.93	0.093	0.43	3.2	0.20	2.3	5.7	0.13	5	4.6	5.0
STD DS8	Standard	109	0.60	279	0.116	4	0.92	0.101	0.43	3.1	0.20	2.5	5.4	0.14	5	4.9	5.1
STD DS8	Standard	115	0.61	270	0.133	2	0.90	0.102	0.40	2.8	0.18	2.7	5.2	0.18	4	4.5	4.7

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Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: November 17, 2011

QUALITY CONTROL REPORT WHI11001006.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	12.7	122.1	123.8	318	1.8	39.2	7.7	610	2.48	25.8	111.5	7.2	72	2.7	6.1	7.6	43	0.70	0.087	15
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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	0.02	<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	<0.1	<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 WHI11001006.1

		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Tl ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS8	Standard	120	0.62	285	0.128	2	0.92	0.093	0.41	3.1	0.20	2.5	5.6	0.16	5	5.5	5.2
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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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Appendix V: Silt Sample Assay Certificates

Note: Certificate WHI11001127.1 contains results for another property but includes 3 silts from the Josephine Property:

1220662, 1220663, 1220664

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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: August 03, 2011
Report Date: August 30, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI11001001.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO(silt 1)
P.O. Number
Number of Samples: 21

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	21	Dry at 60C			WHI
SS80	21	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	21	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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: JO
Report Date: August 30, 2011

CERTIFICATE OF ANALYSIS WHI11001001.1

	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
1220605	Silt	1.0	31.0	19.0	89	0.2	48.9	22.2	851	3.27	327.1	27.5	12.1	23	0.5	2.3	1.3	25	0.18	0.047	29
1220606	Silt	2.5	34.9	32.4	138	0.3	37.1	15.1	537	3.55	91.3	9.7	7.0	52	0.9	2.9	0.6	36	0.47	0.101	28
1220607	Silt	1.2	31.7	24.2	91	0.2	54.3	24.6	956	3.26	297.1	42.5	12.5	23	0.6	2.3	1.3	27	0.16	0.046	30
1220608	Silt	1.7	33.1	37.8	92	0.2	55.0	20.1	690	3.36	381.2	24.2	13.2	23	0.5	2.5	1.6	26	0.17	0.049	30
1220609	Silt	1.1	30.7	17.4	87	0.4	47.5	19.4	647	2.93	330.6	985.0	10.4	27	0.6	2.2	2.0	28	0.22	0.054	28
1220651	Silt	1.5	30.8	48.5	87	0.2	32.2	14.6	736	3.10	167.0	30.9	11.6	37	0.7	4.0	2.0	28	0.28	0.056	29
1220652	Silt	0.8	28.8	28.5	82	0.2	26.3	13.8	617	2.77	176.6	106.6	9.5	49	0.9	2.4	2.4	37	0.42	0.067	26
1220701	Silt	1.0	28.7	31.0	81	0.3	40.9	15.4	457	2.89	376.5	794.4	12.0	25	0.4	2.5	4.1	26	0.20	0.051	29
1220702	Silt	1.0	29.6	16.2	80	0.2	42.0	17.5	554	2.85	345.1	39.0	11.4	24	0.4	2.3	2.5	26	0.18	0.049	26
1220703	Silt	0.7	29.0	9.2	68	0.2	17.3	6.7	220	1.57	7.7	4.1	3.8	33	0.4	1.1	0.1	27	0.45	0.083	14
1220704	Silt	1.0	37.5	11.8	80	0.2	29.7	15.3	647	3.13	332.2	51.5	8.7	59	0.4	1.5	4.8	47	0.45	0.080	24
1220705	Silt	0.8	31.4	10.9	63	0.1	27.3	11.1	484	2.72	231.6	35.7	9.3	45	0.3	1.6	3.1	36	0.36	0.070	24
1220706	Silt	0.7	27.0	16.8	49	0.3	25.4	9.2	323	2.19	39.9	9.1	1.6	29	0.3	0.8	0.9	25	0.29	0.071	33
1220707	Silt	0.7	23.1	11.8	59	<0.1	21.3	9.9	346	2.56	184.1	66.3	8.0	39	0.2	1.1	2.8	37	0.29	0.059	24
1220708	Silt	0.9	28.9	10.5	68	0.1	24.0	11.8	521	2.78	238.3	134.3	9.1	47	0.3	1.4	3.0	38	0.37	0.067	24
1220709	Silt	0.5	15.8	14.4	52	0.1	16.7	8.8	394	1.86	77.5	14.8	7.3	24	0.3	1.0	0.8	26	0.24	0.046	26
1222101	Silt	1.4	34.8	42.7	109	0.1	41.7	18.3	683	3.77	431.8	10.7	11.8	25	0.6	8.1	1.3	26	0.17	0.056	40
1222102	Silt	0.9	43.9	34.0	120	0.3	54.4	20.7	365	3.60	295.1	11.8	12.7	18	1.7	11.5	1.5	23	0.11	0.053	51
1222103	Silt	1.6	35.6	18.8	95	0.3	59.2	27.1	958	3.45	489.8	463.1	12.9	24	0.6	2.4	1.8	27	0.16	0.050	29
1222104	Silt	1.0	29.7	12.7	78	0.2	44.9	18.3	533	2.65	289.0	22.3	9.7	20	0.5	1.8	1.1	27	0.17	0.050	25
1222105	Silt	1.2	32.0	15.0	84	0.2	51.7	23.1	810	3.02	391.7	30.2	11.5	21	0.4	1.9	1.5	27	0.16	0.048	28

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Project: JO
Report Date: August 30, 2011

CERTIFICATE OF ANALYSIS WHI11001001.1

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
1220605	Silt	23	0.50	102	0.042	<1	1.19	0.011	0.14	4.7	<0.01	2.1	0.2	<0.05	3	<0.5	<0.2
1220606	Silt	26	0.57	128	0.024	<1	1.22	0.007	0.08	1.9	0.04	2.4	0.2	<0.05	3	1.1	<0.2
1220607	Silt	25	0.53	110	0.038	<1	1.21	0.011	0.14	3.1	<0.01	2.2	0.3	<0.05	3	<0.5	<0.2
1220608	Silt	33	0.49	109	0.046	<1	1.18	0.011	0.15	6.7	<0.01	2.2	0.2	<0.05	4	<0.5	<0.2
1220609	Silt	24	0.50	114	0.051	<1	1.16	0.012	0.13	15.4	0.02	2.3	0.2	<0.05	3	<0.5	<0.2
1220651	Silt	33	0.52	129	0.052	<1	1.21	0.023	0.16	2.3	0.02	2.2	0.2	<0.05	3	<0.5	<0.2
1220652	Silt	33	0.60	154	0.080	1	1.41	0.030	0.16	3.3	0.02	2.9	0.2	<0.05	4	0.7	<0.2
1220701	Silt	23	0.45	95	0.050	<1	1.04	0.014	0.13	29.7	<0.01	2.0	0.2	<0.05	3	<0.5	<0.2
1220702	Silt	22	0.48	102	0.048	<1	1.09	0.012	0.14	9.3	<0.01	2.2	0.2	<0.05	3	<0.5	<0.2
1220703	Silt	16	0.39	163	0.035	1	0.71	0.011	0.04	0.2	0.05	1.8	<0.1	<0.05	2	0.7	<0.2
1220704	Silt	42	0.75	187	0.092	1	1.78	0.028	0.21	3.4	0.03	4.2	0.3	<0.05	5	0.7	<0.2
1220705	Silt	32	0.56	128	0.075	<1	1.27	0.027	0.16	5.7	0.01	2.8	0.2	<0.05	4	<0.5	<0.2
1220706	Silt	24	0.43	178	0.021	<1	1.12	0.008	0.06	0.5	0.06	1.9	0.2	0.07	3	0.7	<0.2
1220707	Silt	33	0.59	161	0.077	<1	1.40	0.024	0.13	5.0	0.01	2.6	0.2	<0.05	4	<0.5	<0.2
1220708	Silt	35	0.62	151	0.081	1	1.42	0.028	0.17	4.9	0.01	3.0	0.3	<0.05	4	<0.5	<0.2
1220709	Silt	24	0.44	116	0.055	<1	0.99	0.014	0.10	1.4	0.02	1.8	0.1	<0.05	3	<0.5	<0.2
1222101	Silt	30	0.56	112	0.029	<1	1.28	0.006	0.13	0.4	0.02	2.0	0.2	<0.05	4	0.8	<0.2
1222102	Silt	18	0.31	90	0.024	<1	0.82	0.004	0.04	0.2	0.02	1.9	<0.1	<0.05	2	<0.5	<0.2
1222103	Silt	27	0.49	122	0.046	<1	1.23	0.010	0.17	19.1	<0.01	2.2	0.3	<0.05	4	0.7	<0.2
1222104	Silt	21	0.46	103	0.043	<1	1.04	0.008	0.12	6.3	0.02	2.0	0.2	<0.05	3	<0.5	<0.2
1222105	Silt	23	0.49	114	0.046	<1	1.12	0.009	0.14	7.9	0.01	2.2	0.3	<0.05	4	<0.5	<0.2

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Report Date: August 30, 2011

QUALITY CONTROL REPORT WHI11001001.1

	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																					
1222104	Silt	1.0	29.7	12.7	78	0.2	44.9	18.3	533	2.65	289.0	22.3	9.7	20	0.5	1.8	1.1	27	0.17	0.050	25
REP 1222104	QC	1.0	29.5	12.6	78	0.2	44.6	17.8	529	2.64	292.0	49.0	9.7	21	0.5	1.8	1.1	27	0.17	0.047	25
Reference Materials																					
STD DS8	Standard	14.4	114.2	128.2	321	1.8	38.4	7.9	623	2.51	26.0	107.1	7.8	73	2.2	6.3	7.6	44	0.71	0.080	17
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Report Date: August 30, 2011

QUALITY CONTROL REPORT WHI11001001.1

	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																	
1222104	Silt	21	0.46	103	0.043	<1	1.04	0.008	0.12	6.3	0.02	2.0	0.2	<0.05	3	<0.5	<0.2
REP 1222104	QC	21	0.46	107	0.044	<1	1.04	0.008	0.12	5.4	0.02	2.0	0.2	<0.05	3	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	122	0.62	285	0.136	3	0.92	0.089	0.42	3.1	0.20	2.3	5.6	0.16	5	5.0	5.2
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: August 11, 2011
Report Date: September 14, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI11001127.1

CLIENT JOB INFORMATION

Project: LUG+TS
Shipment ID: LUG-TS(silts)
P.O. Number
Number of Samples: 28

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	28	Dry at 60C			WHI
SS80	28	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	28	Saving all or part of Soil Reject			WHI
1DX2	28	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: LUG+TS
Report Date: September 14, 2011

CERTIFICATE OF ANALYSIS WHI11001127.1

	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
1220653	Silt	1.1	32.3	51.9	286	0.5	26.0	13.8	907	2.45	60.0	2.1	4.2	24	8.0	0.7	1.2	29	0.34	0.064	18
1220654	Silt	1.2	33.0	50.7	296	0.6	25.0	12.8	979	2.23	45.2	3.6	2.7	28	7.4	0.6	1.1	31	0.39	0.073	18
1220655	Silt	0.6	14.2	12.5	86	0.3	17.5	11.8	643	1.96	29.8	9.3	2.6	20	0.8	0.3	0.3	20	0.33	0.056	15
1220656	Silt	1.0	12.3	14.4	52	0.1	16.4	7.1	263	2.37	30.3	4.0	4.7	6	0.2	0.4	0.2	18	0.08	0.047	16
1220657	Silt	0.6	11.8	10.8	68	0.1	17.1	9.4	524	2.00	30.5	1.7	4.1	10	0.4	0.3	0.2	15	0.16	0.041	13
1220658	Silt	0.6	13.9	13.2	86	0.3	17.4	12.2	747	1.81	24.7	5.9	2.0	19	0.9	0.3	0.2	20	0.32	0.053	15
1220659	Silt	1.2	14.4	14.8	75	0.3	17.2	9.9	561	1.85	29.0	18.0	3.9	21	0.7	0.4	0.8	23	0.35	0.058	19
1220660	Silt	1.7	20.0	20.0	84	0.4	22.7	12.8	925	2.17	39.0	7.1	4.0	29	1.3	0.5	0.9	23	0.49	0.060	22
1220661	Silt	0.7	15.4	14.7	80	0.4	19.0	11.1	649	2.09	29.4	11.3	2.5	20	0.9	0.3	0.4	22	0.35	0.057	17
1220662	Silt	1.7	22.2	25.5	116	0.6	32.7	16.1	1287	2.40	87.5	8.4	3.7	28	1.7	0.6	0.5	33	0.39	0.089	26
1220663	Silt	1.5	19.6	17.9	95	0.2	30.3	15.6	1128	2.66	68.1	27.3	5.7	18	1.2	0.5	0.3	27	0.25	0.071	24
1220664	Silt	1.1	28.7	18.9	168	0.2	88.3	90.4	1479	3.37	20.1	1.5	8.3	10	1.0	0.5	0.3	22	0.14	0.062	66
1222106	Silt	0.7	43.0	48.8	619	0.5	22.7	9.2	308	2.23	150.6	6.7	2.4	36	14.1	0.4	3.0	21	0.61	0.066	17
1222107	Silt	0.3	13.5	11.3	46	<0.1	13.4	7.4	281	1.61	10.8	0.8	6.4	7	0.2	1.7	0.2	7	0.11	0.028	16
1222108	Silt	0.4	8.1	11.5	78	0.1	5.8	2.9	172	0.88	5.1	1.1	9.1	8	0.4	0.3	0.6	14	0.16	0.066	18
1222109	Silt	0.3	11.5	13.3	54	<0.1	13.3	6.7	149	1.49	8.8	1.5	5.5	16	0.2	1.5	0.1	11	0.18	0.043	18
1222110	Silt	0.4	14.5	13.4	62	<0.1	15.6	7.9	421	1.74	15.5	1.8	6.4	15	0.4	3.1	0.2	10	0.25	0.048	18
1222111	Silt	0.4	13.3	11.8	53	<0.1	14.3	6.7	253	1.57	13.7	1.3	6.1	11	0.3	2.8	0.2	10	0.19	0.047	19
1222112	Silt	0.3	17.2	11.5	39	<0.1	15.8	8.4	236	1.55	5.8	<0.5	7.5	7	0.1	0.7	0.1	7	0.09	0.035	17
1220710	Silt	1.2	22.7	51.2	196	1.3	13.8	6.7	509	2.11	14.4	24.1	4.7	11	1.6	0.6	2.7	34	0.17	0.068	21
1220711	Silt	1.3	18.6	46.1	191	1.0	10.6	5.5	545	1.92	11.7	2.5	4.1	12	1.8	0.4	2.0	31	0.14	0.059	24
1220712	Silt	0.7	13.9	21.4	102	0.3	11.5	5.3	314	1.66	5.9	1.3	9.6	13	1.3	0.4	1.1	28	0.24	0.093	21
1220715	Silt	0.6	8.3	8.7	45	<0.1	9.8	4.5	184	1.46	8.7	0.7	1.8	12	0.2	0.3	0.2	24	0.16	0.046	13
1220716	Silt	0.4	11.7	13.5	75	<0.1	13.6	6.9	602	1.58	9.1	8.0	3.6	15	1.1	2.5	0.2	14	0.20	0.046	17
1220717	Silt	0.3	9.5	8.8	42	<0.1	10.8	4.7	139	1.09	5.7	1.6	3.9	10	0.2	1.3	0.2	12	0.13	0.035	16
1220718	Silt	0.7	9.9	11.2	42	<0.1	12.3	5.4	165	1.72	9.5	2.1	0.2	7	<0.1	0.3	0.2	30	0.07	0.041	13
1220719	Silt	0.8	10.5	11.2	42	0.2	12.1	5.3	160	1.75	8.5	8.5	0.3	8	0.1	0.4	0.2	32	0.08	0.046	13
1220720	Silt	0.7	16.2	14.9	70	0.4	23.9	8.7	324	2.06	19.0	11.1	1.4	17	0.4	0.3	0.2	28	0.23	0.041	14

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Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: LUG+TS
Report Date: September 14, 2011

CERTIFICATE OF ANALYSIS WHI11001127.1

	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
1220653	Silt	24	0.38	147	0.038	2	1.41	0.008	0.17	4.2	0.05	2.3	0.3	<0.05	4	1.1	<0.2
1220654	Silt	24	0.35	147	0.032	2	1.31	0.008	0.14	4.8	0.06	2.3	0.2	<0.05	4	1.7	<0.2
1220655	Silt	16	0.34	101	0.022	1	1.07	0.006	0.08	2.5	0.03	1.2	0.2	<0.05	3	<0.5	<0.2
1220656	Silt	14	0.27	74	0.008	<1	0.77	0.002	0.04	0.3	0.04	0.9	<0.1	<0.05	2	0.6	<0.2
1220657	Silt	13	0.28	68	0.015	<1	0.82	0.004	0.06	2.3	0.02	1.0	0.1	<0.05	2	<0.5	<0.2
1220658	Silt	15	0.30	108	0.016	1	0.99	0.005	0.06	1.7	0.05	1.3	0.1	<0.05	3	0.9	<0.2
1220659	Silt	17	0.32	109	0.035	2	0.99	0.005	0.10	35.0	<0.01	1.6	0.2	<0.05	3	1.0	<0.2
1220660	Silt	19	0.32	130	0.031	2	1.01	0.005	0.12	31.5	0.01	1.7	0.2	<0.05	3	2.0	<0.2
1220661	Silt	18	0.34	119	0.019	1	1.09	0.006	0.08	7.3	0.03	1.7	0.1	<0.05	3	0.6	<0.2
1220662	Silt	28	0.45	207	0.042	2	1.43	0.010	0.12	7.9	0.04	2.6	0.3	<0.05	4	2.1	<0.2
1220663	Silt	23	0.47	157	0.045	1	1.30	0.009	0.13	3.1	0.04	2.0	0.3	<0.05	3	1.7	<0.2
1220664	Silt	17	0.33	90	0.014	2	1.35	0.003	0.04	0.3	0.07	2.0	0.4	<0.05	3	1.1	<0.2
1222106	Silt	21	0.34	58	0.022	2	1.24	0.006	0.09	0.7	0.04	1.6	0.2	<0.05	3	0.7	<0.2
1222107	Silt	5	0.15	40	0.005	<1	0.38	<0.001	0.03	0.2	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2
1222108	Silt	6	0.15	53	0.017	<1	0.49	0.003	0.04	1.4	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
1222109	Silt	8	0.21	52	0.008	<1	0.55	0.002	0.03	0.5	0.02	0.9	<0.1	<0.05	2	0.6	<0.2
1222110	Silt	8	0.21	54	0.009	<1	0.50	0.002	0.03	0.8	0.02	0.9	<0.1	<0.05	2	<0.5	<0.2
1222111	Silt	7	0.18	48	0.009	1	0.47	0.002	0.03	0.3	0.02	0.8	<0.1	<0.05	1	<0.5	<0.2
1222112	Silt	5	0.12	38	0.007	<1	0.32	0.001	0.02	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
1220710	Silt	20	0.28	141	0.026	<1	1.16	0.004	0.06	13.9	0.05	1.9	0.2	<0.05	5	<0.5	<0.2
1220711	Silt	15	0.26	140	0.024	<1	1.27	0.003	0.06	5.4	0.03	1.7	0.2	<0.05	5	0.5	<0.2
1220712	Silt	13	0.27	113	0.032	<1	0.82	0.004	0.06	4.8	0.01	1.9	0.1	<0.05	4	<0.5	<0.2
1220715	Silt	13	0.21	84	0.017	<1	0.78	0.004	0.04	0.9	0.01	1.2	0.1	<0.05	3	0.5	<0.2
1220716	Silt	10	0.19	77	0.012	<1	0.63	0.002	0.04	2.3	0.02	1.0	<0.1	<0.05	2	<0.5	<0.2
1220717	Silt	8	0.15	56	0.010	<1	0.50	0.002	0.03	0.3	0.06	0.9	<0.1	<0.05	2	<0.5	<0.2
1220718	Silt	17	0.27	84	0.012	<1	0.91	0.003	0.03	0.3	0.04	0.7	<0.1	<0.05	3	0.5	<0.2
1220719	Silt	18	0.28	90	0.013	<1	0.99	0.003	0.03	0.3	0.08	0.8	<0.1	<0.05	4	<0.5	<0.2
1220720	Silt	18	0.31	98	0.017	<1	1.11	0.005	0.05	0.2	0.04	1.4	<0.1	<0.05	3	<0.5	<0.2

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: LUG+TS
Report Date: September 14, 2011

QUALITY CONTROL REPORT WHI11001127.1

	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																					
1222107	Silt	0.3	13.5	11.3	46	<0.1	13.4	7.4	281	1.61	10.8	0.8	6.4	7	0.2	1.7	0.2	7	0.11	0.028	16
REP 1222107	QC	0.3	13.7	11.9	45	<0.1	14.3	7.3	286	1.58	10.5	<0.5	6.6	8	0.2	1.6	0.2	7	0.11	0.027	17
Reference Materials																					
STD DS8	Standard	12.6	108.5	125.2	321	1.9	37.5	7.5	618	2.51	25.4	114.3	6.0	58	2.1	4.7	6.3	41	0.71	0.085	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: LUG+TS
Report Date: September 14, 2011

QUALITY CONTROL REPORT WHI11001127.1

	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																	
1222107	Silt	5	0.15	40	0.005	<1	0.38	<0.001	0.03	0.2	0.02	0.8	<0.1	<0.05	<1	<0.5	<0.2
REP 1222107	QC	6	0.15	41	0.006	<1	0.38	0.001	0.03	0.2	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	116	0.64	274	0.107	2	0.90	0.084	0.42	2.8	0.21	2.2	5.3	0.12	5	5.6	5.0
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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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Appendix VI: Rock Sample Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: August 01, 2011
Report Date: October 03, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS WHI11000901.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JORX1
P.O. Number
Number of Samples: 90

SAMPLE DISPOSAL

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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	90	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B	90	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	90	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro
Robert Middleton

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: October 03, 2011

CERTIFICATE OF ANALYSIS WHI11000901.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	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
1204313	Rock	0.65	<2	0.7	3.2	21.8	12	<0.1	1.5	1.3	90	0.57	2.0	1.3	8.1	10	<0.1	0.1	0.1	<2	0.03
1204315	Rock	0.62	<2	0.4	4.2	13.4	14	<0.1	4.0	2.4	134	0.68	3.7	1.4	8.8	22	<0.1	0.2	0.2	<2	0.10
1204317	Rock	1.49	<2	0.4	1.4	23.9	2	<0.1	0.9	0.3	149	0.54	1.1	<0.5	<0.1	3	<0.1	0.2	<0.1	<2	<0.01
1204318	Rock	1.44	<2	0.2	9.6	38.6	31	<0.1	8.1	4.8	422	1.51	20.8	4.1	5.7	8	0.2	0.3	0.3	<2	0.02
1204319	Rock	0.66	<2	0.1	1.1	9.0	5	0.2	1.8	1.3	68	0.52	7.6	0.5	1.5	4	<0.1	0.5	0.2	<2	<0.01
1204320	Rock	1.36	<2	0.2	4.6	17.4	32	<0.1	6.9	2.0	112	2.01	4.2	2.1	5.3	7	<0.1	1.2	<0.1	3	0.04
1204321	Rock	1.36	<2	0.2	1.8	3.2	5	<0.1	0.8	0.3	45	0.40	18.1	1.7	0.5	6	<0.1	1.0	<0.1	<2	0.02
1204322	Rock	0.80	<2	0.4	4.0	8.8	17	<0.1	2.5	1.6	133	0.89	4.4	<0.5	8.3	8	<0.1	0.5	<0.1	<2	<0.01
1204323	Rock	1.04	<2	0.2	13.1	22.3	104	0.2	15.9	14.6	1229	2.59	9.9	3.2	2.9	50	0.5	2.1	0.4	7	0.42
1204324	Rock	0.53	<2	<0.1	44.9	284.5	214	2.2	31.5	21.6	796	4.60	9.1	<0.5	12.2	20	2.1	10.3	0.6	13	0.09
1204325	Rock	0.63	<2	0.3	2.3	21.2	10	<0.1	2.6	3.0	533	0.68	2.0	1.5	0.6	8	<0.1	0.2	<0.1	<2	0.03
1204326	Rock	1.03	<2	<0.1	0.2	6.0	3	<0.1	2.6	1.2	256	0.37	<0.5	<0.5	0.2	1107	<0.1	0.2	<0.1	<2	24.41
1204327	Rock	1.01	42	42.3	424.0	77.7	263	4.4	24.6	5.6	73	6.05	137.1	3.0	7.9	210	0.6	24.4	0.4	75	0.56
1204328	Rock	0.98	14	2.3	14.6	406.3	14	1.0	1.4	0.3	39	0.73	16.7	11.0	1.8	55	0.1	4.2	0.6	9	0.02
1204329	Rock	0.61	<2	0.9	9.7	15.5	20	<0.1	3.0	1.7	69	0.82	11.5	0.9	2.2	36	<0.1	1.2	<0.1	10	0.11
1204330	Rock	0.59	<2	0.3	5.0	6.0	7	<0.1	4.0	2.0	188	1.12	5.4	1.2	3.2	15	<0.1	1.1	<0.1	2	0.11
1204331	Rock	0.59	<2	0.2	11.8	4.6	21	<0.1	7.9	4.1	121	1.59	6.0	<0.5	6.5	6	<0.1	2.1	<0.1	4	0.02
1204332	Rock	0.93	5	0.3	23.0	175.1	32	1.5	2.8	2.3	159	1.30	56.8	8.1	0.2	4	<0.1	1.7	3.2	<2	<0.01
1204333	Rock	0.45	<2	1.1	18.3	37.9	15	0.2	3.4	2.5	21	0.34	146.7	2.5	5.6	287	0.1	1.1	0.2	16	0.02
1204334	Rock	1.88	225	1.3	45.9	15.9	3	2.9	1.7	19.2	17	2.01	>10000	211.9	9.0	59	<0.1	8.5	13.9	7	<0.01
1204335	Rock	1.88	<2	0.3	10.5	5.4	33	<0.1	11.7	6.1	126	3.91	59.5	1.9	4.8	8	<0.1	1.1	<0.1	5	<0.01
1204336	Rock	0.97	<2	0.1	4.1	5.6	8	0.1	3.1	0.7	26	0.79	90.3	1.3	3.7	5	<0.1	0.1	0.3	3	<0.01
1204337	Rock	1.34	4	0.5	8.2	59.9	4	0.5	1.3	2.5	50	0.98	1912	6.3	5.5	7	0.2	0.8	0.5	4	<0.01
1204338	Rock	2.20	<2	0.4	16.9	27.4	14	0.1	2.8	0.8	47	1.79	146.2	1.8	7.2	5	<0.1	1.1	0.1	4	<0.01
1220601	Rock	1.36	<2	0.2	0.9	3.7	2	<0.1	0.7	0.2	61	0.36	9.4	1.0	0.7	5	<0.1	<0.1	<0.1	<2	<0.01
1220602	Rock	0.86	<2	0.2	1.3	5.0	7	<0.1	1.0	0.5	43	0.55	6.2	<0.5	7.5	6	<0.1	0.2	<0.1	<2	0.01
1220603	Rock	1.20	<2	0.2	2.7	4.6	12	<0.1	2.9	1.7	205	1.34	4.9	2.8	8.3	10	<0.1	0.3	<0.1	4	0.04
1220604	Rock	1.84	<2	0.2	3.8	7.1	11	<0.1	4.8	1.6	55	0.85	6.6	<0.5	4.9	8	<0.1	0.1	<0.1	3	0.01
1220610	Rock	1.37	<2	0.1	2.8	54.4	16	0.4	2.9	1.4	359	1.16	7.1	4.3	0.6	7	0.2	0.8	0.7	<2	0.04
1220611	Rock	1.51	<2	0.2	2.2	13.6	11	<0.1	2.1	1.3	167	0.94	3.1	1.0	5.4	7	<0.1	0.2	0.1	<2	0.02

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CERTIFICATE OF ANALYSIS WHI11000901.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
1204313	Rock	0.017	15	4	0.02	115	0.001	<20	0.19	0.010	0.13	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1204315	Rock	0.055	19	4	0.04	53	0.001	<20	0.35	0.008	0.12	<0.1	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
1204317	Rock	0.003	<1	3	<0.01	14	<0.001	<20	0.03	<0.001	<0.01	<0.1	0.02	<0.1	<0.05	0.3	0.6	<1	<0.2
1204318	Rock	0.014	11	4	<0.01	26	<0.001	<20	0.24	0.006	0.06	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1	<0.2
1204319	Rock	0.005	3	4	<0.01	11	<0.001	<20	0.30	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2
1204320	Rock	0.033	13	6	0.24	18	0.001	<20	0.79	0.004	0.05	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	2	<0.2
1204321	Rock	0.011	<1	5	<0.01	11	<0.001	<20	0.03	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1204322	Rock	0.013	16	4	0.01	27	<0.001	<20	0.20	0.002	0.07	<0.1	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
1204323	Rock	0.074	6	7	0.34	18	0.002	<20	0.90	0.020	0.04	<0.1	<0.01	<0.1	<0.05	1.2	<0.5	3	<0.2
1204324	Rock	0.039	20	13	0.76	27	0.003	<20	2.05	0.012	0.10	<0.1	<0.01	<0.1	<0.05	1.7	<0.5	6	<0.2
1204325	Rock	0.009	3	7	<0.01	30	<0.001	<20	0.04	0.007	<0.01	<0.1	<0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2
1204326	Rock	0.004	3	1	0.24	29	<0.001	<20	0.02	0.001	<0.01	<0.1	<0.01	<0.1	<0.05	0.4	0.6	<1	0.2
1204327	Rock	0.717	19	19	0.05	258	0.005	<20	0.88	0.005	0.27	0.2	0.22	0.7	0.10	2.6	16.9	3	0.2
1204328	Rock	0.022	14	5	<0.01	59	0.001	<20	0.18	0.003	0.06	<0.1	0.25	1.2	0.07	0.2	0.6	1	<0.2
1204329	Rock	0.028	11	8	0.01	93	0.001	<20	0.19	0.004	0.07	<0.1	0.04	0.1	<0.05	1.0	0.7	<1	<0.2
1204330	Rock	0.057	8	6	0.02	26	<0.001	<20	0.20	0.004	0.05	<0.1	<0.01	<0.1	<0.05	0.5	0.7	<1	<0.2
1204331	Rock	0.008	12	6	0.10	46	<0.001	<20	0.44	0.014	0.08	<0.1	<0.01	<0.1	<0.05	0.7	0.6	1	<0.2
1204332	Rock	0.001	1	5	<0.01	5	<0.001	<20	0.03	0.002	<0.01	<0.1	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1204333	Rock	0.028	14	8	<0.01	211	0.002	<20	0.62	<0.001	0.02	0.1	0.41	0.1	<0.05	0.8	0.7	3	<0.2
1204334	Rock	0.007	14	5	0.03	151	0.002	<20	0.49	0.003	0.22	<0.1	0.62	1.9	0.67	1.5	2.0	2	0.4
1204335	Rock	0.034	9	9	<0.01	12	0.001	<20	0.18	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	<1	<0.2
1204336	Rock	0.008	9	5	<0.01	12	<0.001	<20	0.19	0.001	0.04	<0.1	0.02	<0.1	<0.05	0.4	<0.5	<1	<0.2
1204337	Rock	0.013	12	7	<0.01	85	<0.001	<20	0.17	<0.001	0.05	<0.1	0.09	0.2	0.08	0.5	<0.5	<1	0.5
1204338	Rock	0.028	13	6	<0.01	16	<0.001	<20	0.23	<0.001	0.04	<0.1	0.13	<0.1	<0.05	0.8	<0.5	<1	<0.2
1220601	Rock	0.004	1	4	<0.01	12	<0.001	<20	0.05	0.002	0.03	<0.1	0.02	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1220602	Rock	0.013	17	4	0.02	48	<0.001	<20	0.19	0.011	0.14	<0.1	0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1220603	Rock	0.026	12	6	0.04	27	<0.001	<20	0.22	0.021	0.01	<0.1	<0.01	<0.1	<0.05	0.8	<0.5	1	<0.2
1220604	Rock	0.007	9	7	0.03	21	<0.001	<20	0.25	0.023	<0.01	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1	<0.2
1220610	Rock	0.025	2	5	<0.01	12	<0.001	<20	0.09	0.002	0.01	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
1220611	Rock	0.018	10	4	<0.01	13	<0.001	<20	0.15	0.005	0.04	<0.1	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2

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Method		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	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
1220612	Rock	1.42	<2	0.2	4.9	18.5	39	<0.1	9.2	4.6	1565	1.00	3.9	2.9	2.3	18	<0.1	0.1	0.3	<2	0.06
1220613	Rock	0.93	<2	0.4	13.7	159.4	64	0.3	13.7	6.6	2325	1.23	7.5	<0.5	7.1	39	0.3	0.5	0.7	<2	0.13
1220614	Rock	1.04	2	0.2	8.3	4.0	6	<0.1	1.2	0.6	36	1.31	36.3	9.8	6.2	12	<0.1	0.5	0.2	3	0.02
1220615	Rock	1.02	<2	0.2	13.9	17.0	15	0.2	13.1	5.9	239	0.69	4.0	<0.5	1.1	3	<0.1	0.3	0.4	<2	0.02
1220616	Rock	1.14	<2	<0.1	11.8	8.8	24	0.3	14.7	3.8	178	0.98	20.4	<0.5	7.3	4	0.1	<0.1	0.4	7	0.02
1220617	Rock	1.63	<2	0.1	8.8	7.8	21	<0.1	2.8	1.6	126	1.63	3.9	1.5	7.0	6	<0.1	<0.1	0.2	4	0.02
1220618	Rock	0.73	<2	0.1	13.1	34.1	13	0.2	1.7	1.2	65	1.29	3.1	1.1	2.8	2	<0.1	0.2	1.0	2	<0.01
1220619	Rock	2.55	<2	0.2	11.4	2.1	33	<0.1	5.4	2.0	151	2.11	4.8	<0.5	3.1	3	<0.1	<0.1	0.1	10	<0.01
1221751	Rock	0.60	<2	0.8	14.4	16.8	74	<0.1	9.2	10.2	563	3.07	3.3	<0.5	11.2	56	0.3	0.4	0.2	83	1.72
1221752	Rock	0.52	2	3.2	88.9	21.7	132	1.0	40.5	17.2	294	10.74	6.0	<0.5	2.4	137	0.5	0.6	0.2	117	0.42
1221753	Rock	0.95	<2	0.6	6.5	8.4	63	<0.1	9.1	10.4	568	2.99	3.2	<0.5	10.7	123	0.1	0.2	<0.1	83	1.81
1221754	Rock	0.65	<2	0.7	35.5	1.6	62	0.6	14.9	0.6	31	0.57	5.9	<0.5	0.4	19	4.2	3.8	0.1	13	0.03
1221755	Rock	0.37	<2	4.0	253.0	5.6	145	1.4	50.3	1.5	39	1.29	21.4	<0.5	1.3	59	3.3	6.8	0.1	177	0.05
1221756	Rock	0.40	<2	1.0	144.6	2.6	47	0.8	24.1	1.0	36	0.76	9.0	<0.5	0.3	35	1.5	2.0	0.1	81	0.02
1221757	Rock	0.49	<2	1.0	134.1	2.8	45	1.1	20.8	0.9	36	0.79	8.8	<0.5	0.5	39	1.5	1.3	0.1	92	0.03
1221758	Rock	0.43	<2	<0.1	1.3	2.7	2	<0.1	1.4	0.3	128	0.42	0.8	<0.5	0.1	460	<0.1	0.2	<0.1	<2	9.89
1221759	Rock	0.79	<2	1.1	32.0	13.0	54	0.1	12.8	12.2	397	3.17	1.9	<0.5	11.1	39	0.1	<0.1	0.7	88	1.15
1221760	Rock	0.50	<2	0.8	5.9	8.3	72	<0.1	11.9	10.9	611	3.15	1.7	<0.5	11.4	123	0.1	0.2	<0.1	84	2.16
1221761	Rock	0.49	<2	0.5	3.9	2.7	2	<0.1	1.1	0.2	27	0.40	1.8	<0.5	0.2	12	<0.1	0.2	<0.1	3	0.05
1221762	Rock	0.47	<2	0.4	10.4	1.3	37	<0.1	10.8	1.8	64	0.61	1.6	<0.5	0.2	2	0.5	0.5	0.1	<2	0.02
1221763	Rock	0.65	3	103.6	54.9	19.9	16	1.4	7.7	0.2	30	2.50	255.6	<0.5	2.5	35	1.1	49.6	0.1	342	0.02
1221764	Rock	0.86	5	36.5	30.2	2.2	18	1.0	14.9	0.2	30	0.55	28.8	<0.5	1.3	132	1.6	39.8	<0.1	533	0.42
1221765	Rock	0.67	<2	2.0	11.8	1.8	7	0.5	2.4	0.1	31	0.59	11.4	<0.5	0.2	21	0.2	2.6	<0.1	57	<0.01
1221766	Rock	0.94	<2	0.2	1.5	13.1	11	<0.1	1.9	0.9	111	0.82	1.1	<0.5	0.7	3	<0.1	0.1	0.1	<2	<0.01
1221767	Rock	0.56	31	0.2	19.4	2.2	34	<0.1	6.4	1.4	70	1.06	2.3	10.9	1.1	9	<0.1	0.3	<0.1	10	0.09
1221768	Rock	0.93	<2	0.2	40.7	12.4	163	0.1	38.2	19.6	322	2.00	1.9	0.5	3.8	24	2.7	0.1	<0.1	15	0.07
1221769	Rock	1.00	<2	0.4	34.8	5.9	123	0.2	30.4	7.5	146	3.70	2.8	0.8	2.2	12	0.2	0.2	<0.1	34	0.03
1221770	Rock	0.75	<2	0.3	48.2	7.6	174	0.1	51.6	14.9	296	8.93	3.8	<0.5	9.7	58	0.4	0.1	<0.1	92	0.19
1221771	Rock	0.83	<2	0.4	6.9	28.0	93	<0.1	19.0	14.9	926	4.17	2.2	<0.5	22.7	122	0.6	0.1	<0.1	112	1.96
1221772	Rock	0.80	3	0.2	54.1	9.5	164	<0.1	56.0	22.5	308	7.51	4.5	<0.5	12.1	8	<0.1	0.2	0.4	53	0.03

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: October 03, 2011

CERTIFICATE OF ANALYSIS WHI11000901.1

Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
1220612	Rock	0.027	4	5	0.07	27	<0.001	<20	0.23	0.018	0.03	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
1220613	Rock	0.065	18	5	0.09	28	<0.001	<20	0.40	0.009	0.15	<0.1	0.01	<0.1	<0.05	0.8	<0.5	1	<0.2
1220614	Rock	0.011	12	<1	0.03	47	<0.001	<20	0.23	0.019	0.07	<0.1	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
1220615	Rock	0.010	2	6	0.07	13	<0.001	<20	0.15	0.016	0.02	<0.1	<0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2
1220616	Rock	0.006	13	10	0.21	41	0.003	<20	0.50	0.030	0.07	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	2	<0.2
1220617	Rock	0.020	10	9	0.19	14	0.002	<20	0.42	0.014	0.06	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	1	<0.2
1220618	Rock	0.008	4	7	0.15	12	0.001	<20	0.33	0.001	0.02	0.2	<0.01	<0.1	<0.05	0.4	<0.5	1	<0.2
1220619	Rock	0.007	8	9	0.47	22	0.002	<20	0.87	0.007	0.07	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	3	<0.2
1221751	Rock	0.082	20	96	1.52	142	0.232	255	1.94	0.046	0.13	1.6	<0.01	<0.1	<0.05	4.5	<0.5	9	<0.2
1221752	Rock	0.237	33	41	1.48	674	0.008	<20	3.03	0.032	0.20	<0.1	0.02	0.2	0.17	5.5	1.1	9	<0.2
1221753	Rock	0.074	22	112	1.45	463	0.183	<20	2.10	0.092	0.54	0.6	<0.01	0.3	<0.05	7.7	<0.5	8	<0.2
1221754	Rock	0.025	<1	6	0.02	30	<0.001	<20	0.11	0.002	0.01	<0.1	0.03	<0.1	<0.05	0.3	1.8	<1	<0.2
1221755	Rock	0.146	2	13	0.02	61	0.001	<20	0.46	0.002	0.03	0.2	0.10	0.2	<0.05	1.0	13.1	<1	<0.2
1221756	Rock	0.075	1	7	<0.01	50	<0.001	<20	0.24	0.001	0.02	<0.1	0.02	<0.1	<0.05	0.4	2.8	<1	<0.2
1221757	Rock	0.084	1	7	<0.01	56	<0.001	<20	0.26	0.001	0.02	0.4	0.03	<0.1	0.07	0.4	4.4	<1	<0.2
1221758	Rock	0.025	5	2	0.16	9	<0.001	<20	<0.01	0.005	<0.01	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1	<0.2
1221759	Rock	0.135	23	62	1.61	82	0.151	<20	1.60	0.025	0.10	1.0	0.02	<0.1	0.17	3.6	<0.5	10	<0.2
1221760	Rock	0.075	22	116	1.52	221	0.131	<20	2.12	0.077	0.27	<0.1	<0.01	0.1	<0.05	7.6	<0.5	8	<0.2
1221761	Rock	0.018	1	4	<0.01	30	<0.001	<20	0.05	0.004	0.02	<0.1	<0.01	<0.1	<0.05	0.1	<0.5	<1	<0.2
1221762	Rock	0.010	<1	3	<0.01	50	<0.001	<20	0.05	0.002	0.03	0.2	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221763	Rock	0.322	7	37	0.02	167	0.002	<20	0.50	<0.001	0.07	0.3	0.33	1.2	0.10	4.7	5.4	2	0.4
1221764	Rock	0.604	15	93	0.06	120	0.007	<20	0.76	<0.001	0.07	0.4	0.36	0.5	<0.05	1.5	3.6	2	<0.2
1221765	Rock	0.050	<1	6	<0.01	33	<0.001	<20	0.08	0.002	0.02	<0.1	0.04	0.1	<0.05	0.2	3.8	<1	<0.2
1221766	Rock	0.009	1	5	0.01	5	<0.001	<20	0.06	0.004	<0.01	0.3	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1221767	Rock	0.035	4	7	0.47	73	<0.001	<20	0.60	0.002	0.05	<0.1	<0.01	<0.1	<0.05	0.3	<0.5	1	<0.2
1221768	Rock	0.039	18	8	0.36	81	0.002	<20	0.88	0.003	0.11	<0.1	<0.01	<0.1	<0.05	0.8	1.4	2	<0.2
1221769	Rock	0.029	6	7	1.00	38	0.003	<20	1.97	<0.001	0.05	<0.1	<0.01	<0.1	<0.05	0.8	0.6	5	<0.2
1221770	Rock	0.105	34	21	2.32	127	0.005	<20	4.10	<0.001	0.17	<0.1	<0.01	<0.1	<0.05	1.8	<0.5	11	<0.2
1221771	Rock	0.171	54	46	1.54	1101	0.346	<20	2.01	0.042	1.22	0.2	<0.01	0.5	<0.05	5.1	<0.5	9	<0.2
1221772	Rock	0.022	20	55	1.85	140	0.092	<20	3.59	0.014	0.49	<0.1	<0.01	0.4	0.27	3.9	0.6	11	<0.2

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Project: JO
Report Date: October 03, 2011

CERTIFICATE OF ANALYSIS WHI11000901.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	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
1221773	Rock	0.74	<2	0.2	1.7	0.3	<1	<0.1	1.4	0.3	30	0.26	1.1	<0.5	0.1	1	<0.1	<0.1	<0.1	<2	<0.01
1221774	Rock	0.50	<2	0.2	19.5	3.9	77	<0.1	28.9	10.7	305	4.10	27.0	<0.5	21.9	13	<0.1	0.2	0.7	21	0.03
1221775	Rock	0.87	<2	0.2	2.3	0.2	<1	<0.1	1.0	0.2	39	0.42	2.4	<0.5	0.2	<1	<0.1	<0.1	<0.1	<2	<0.01
1221776	Rock	0.49	<2	1.7	41.2	36.7	110	0.3	50.9	28.8	769	3.96	30.4	<0.5	8.5	194	0.6	0.1	0.5	155	3.57
1221777	Rock	0.51	30	0.2	54.4	7.3	28	<0.1	9.6	5.3	138	3.05	361.7	27.7	6.8	4	<0.1	0.9	1.8	9	0.02
1221778	Rock	0.51	<2	0.1	3.0	0.3	1	<0.1	1.7	0.9	41	0.40	25.3	<0.5	0.2	2	<0.1	0.1	<0.1	<2	0.01
1221779	Rock	0.54	3	0.1	8.5	4.2	4	<0.1	6.0	3.3	135	0.53	141.9	1.5	0.4	2	<0.1	0.3	0.7	<2	<0.01
1221780	Rock	0.86	5	0.2	3.9	1.4	1	<0.1	1.2	0.8	41	0.46	354.0	4.1	<0.1	1	<0.1	0.6	1.3	<2	<0.01
1221781	Rock	0.78	<2	0.2	1.5	10.7	1	<0.1	1.1	0.3	31	0.35	26.0	<0.5	<0.1	<1	<0.1	0.7	<0.1	<2	<0.01
1221782	Rock	0.28	<2	0.2	1.3	2.2	1	<0.1	1.0	0.2	35	0.40	12.7	1.7	<0.1	<1	<0.1	0.5	<0.1	<2	<0.01
1221783	Rock	0.76	<2	0.4	8.5	2.5	3	<0.1	2.2	0.6	42	0.64	18.2	2.2	0.3	1	<0.1	2.4	<0.1	<2	<0.01
1221784	Rock	0.51	<2	0.2	1.1	0.5	1	<0.1	1.2	0.3	56	0.37	3.3	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
1221785	Rock	0.58	22	0.3	13.1	5.9	11	<0.1	3.9	1.6	59	1.25	250.2	26.7	3.6	3	<0.1	0.3	1.9	7	<0.01
1221786	Rock	0.62	<2	0.3	10.3	0.9	6	<0.1	10.1	8.3	72	0.57	2.0	1.2	1.5	16	<0.1	0.2	<0.1	<2	0.18
1221787	Rock	1.44	4	0.7	24.0	35.6	56	0.2	7.6	4.3	295	2.92	5.6	1.0	5.0	10	<0.1	0.5	0.4	6	0.18
1221788	Rock	0.68	<2	0.3	4.7	3.4	6	<0.1	2.3	0.9	50	0.67	1.4	1.3	2.3	2	<0.1	0.4	<0.1	<2	<0.01
1221789	Rock	0.80	<2	0.2	10.1	1.1	9	<0.1	2.7	0.9	54	1.01	2.0	<0.5	0.8	<1	<0.1	<0.1	<0.1	3	<0.01
1221790	Rock	0.41	<2	0.2	13.4	8.6	11	0.2	10.8	5.4	100	1.01	3.5	4.1	20.2	3	<0.1	0.4	0.8	<2	0.02
1221791	Rock	0.84	4	0.6	19.0	69.0	44	1.4	21.7	9.6	194	1.51	9.7	2.5	6.9	5	<0.1	<0.1	3.2	9	0.03
1221792	Rock	0.65	4	0.2	24.0	5.9	29	<0.1	5.5	1.9	97	1.67	0.6	0.8	4.9	3	<0.1	0.3	0.3	6	<0.01
1221793	Rock	0.84	3	0.2	2.9	1172	604	3.3	3.2	1.4	687	0.50	1829	1.6	5.9	17	11.0	0.6	1.4	<2	0.81
1221794	Rock	0.49	2	0.2	9.1	7.6	4	0.1	2.1	0.6	46	0.85	22.8	1.5	0.8	<1	<0.1	0.1	0.2	<2	<0.01
1221795	Rock	0.36	<2	0.2	25.7	9.7	117	<0.1	45.9	20.4	430	2.53	5.8	<0.5	6.7	5	0.1	<0.1	<0.1	8	0.02
1221796	Rock	0.89	<2	0.2	11.7	8.3	39	0.2	14.7	7.8	534	1.57	3.7	3.7	8.2	5	0.5	<0.1	0.1	5	<0.01
1221797	Rock	1.00	<2	0.1	4.5	122.4	67	2.0	6.6	2.1	230	0.48	36.7	1.2	7.9	12	0.6	<0.1	3.3	<2	0.23
1221798	Rock	1.48	<2	0.2	2.2	2.2	4	<0.1	1.5	0.3	30	0.46	1.8	<0.5	2.3	<1	<0.1	<0.1	<0.1	<2	<0.01
1221799	Rock	0.86	<2	0.2	3.9	5.0	4	<0.1	1.5	0.5	46	0.64	70.1	<0.5	1.4	2	<0.1	0.1	0.2	<2	<0.01
1221701	Rock	1.10	18	0.3	55.9	14.1	75	0.1	29.8	21.6	589	3.49	39.3	0.8	8.7	5	<0.1	0.1	0.5	18	0.07
1221702	Rock	2.16	<2	0.3	20.1	30.8	52	0.2	7.8	3.9	374	4.98	5.0	<0.5	14.3	9	<0.1	<0.1	0.3	13	<0.01
1221703	Rock	1.61	<2	0.4	15.3	138.9	45	0.8	3.0	1.6	181	2.45	1.3	<0.5	7.6	8	<0.1	<0.1	1.8	11	0.04

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	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
1221773	Rock	<0.001	<1	5	<0.01	4	<0.001	<20	0.02	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221774	Rock	0.030	46	33	1.09	64	0.031	<20	2.18	0.014	0.22	0.2	<0.01	<0.1	<0.05	1.5	<0.5	6	<0.2
1221775	Rock	0.001	<1	6	<0.01	2	<0.001	<20	0.01	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221776	Rock	0.140	18	303	2.76	510	0.367	<20	2.71	0.081	2.05	0.7	<0.01	1.1	0.27	5.1	<0.5	9	<0.2
1221777	Rock	0.010	10	14	0.29	37	0.002	<20	0.70	0.025	0.05	0.3	<0.01	<0.1	<0.05	0.9	<0.5	2	<0.2
1221778	Rock	0.003	<1	7	<0.01	4	<0.001	<20	0.01	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221779	Rock	0.004	<1	4	0.02	3	<0.001	<20	0.05	0.003	<0.01	0.3	<0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2
1221780	Rock	<0.001	<1	6	<0.01	2	<0.001	<20	<0.01	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221781	Rock	<0.001	<1	6	<0.01	4	<0.001	<20	<0.01	<0.001	<0.01	0.4	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221782	Rock	<0.001	<1	6	<0.01	13	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221783	Rock	0.001	1	10	<0.01	48	<0.001	<20	0.03	<0.001	0.01	0.4	0.02	<0.1	0.06	0.1	<0.5	<1	<0.2
1221784	Rock	<0.001	<1	7	<0.01	6	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221785	Rock	0.010	9	10	<0.01	12	<0.001	<20	0.24	0.001	0.05	0.6	0.02	0.1	<0.05	1.1	<0.5	<1	<0.2
1221786	Rock	0.084	2	9	0.03	10	<0.001	<20	0.08	0.006	<0.01	<0.1	0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2
1221787	Rock	0.009	7	11	0.63	19	0.002	<20	1.02	0.013	0.06	<0.1	<0.01	<0.1	0.58	1.3	<0.5	3	<0.2
1221788	Rock	0.003	9	10	<0.01	20	<0.001	<20	0.12	0.004	0.06	<0.1	0.11	<0.1	<0.05	0.3	<0.5	<1	<0.2
1221789	Rock	0.004	<1	6	0.08	6	<0.001	<20	0.16	0.002	0.02	0.4	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
1221790	Rock	0.016	30	9	0.05	32	0.001	<20	0.20	0.021	0.04	<0.1	0.01	<0.1	0.08	0.4	<0.5	<1	<0.2
1221791	Rock	0.032	18	12	0.07	37	0.001	<20	0.40	0.004	0.13	<0.1	0.01	0.2	<0.05	1.3	<0.5	1	0.3
1221792	Rock	0.016	11	12	0.26	29	0.002	<20	0.59	0.003	0.07	<0.1	0.02	0.2	<0.05	0.8	<0.5	2	<0.2
1221793	Rock	0.007	6	3	0.02	26	<0.001	<20	0.37	0.040	0.27	0.4	0.01	0.2	0.10	0.2	<0.5	1	<0.2
1221794	Rock	0.005	<1	6	<0.01	5	<0.001	<20	0.05	0.003	<0.01	<0.1	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
1221795	Rock	0.024	17	11	0.03	35	0.001	<20	0.43	0.004	0.12	<0.1	<0.01	0.3	<0.05	1.0	<0.5	2	<0.2
1221796	Rock	0.015	17	9	<0.01	41	<0.001	<20	0.32	0.002	0.11	<0.1	0.02	<0.1	<0.05	0.7	<0.5	1	<0.2
1221797	Rock	0.006	5	2	<0.01	23	<0.001	<20	0.36	0.047	0.25	0.3	<0.01	0.2	<0.05	0.3	<0.5	1	<0.2
1221798	Rock	0.004	4	5	<0.01	5	<0.001	<20	0.13	0.001	0.02	<0.1	0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1221799	Rock	0.006	3	7	0.02	5	<0.001	<20	0.07	0.005	<0.01	0.4	0.02	<0.1	<0.05	0.1	<0.5	<1	<0.2
1221701	Rock	0.039	20	22	1.09	65	0.010	<20	1.84	0.012	0.13	<0.1	<0.01	<0.1	<0.05	2.7	<0.5	6	<0.2
1221702	Rock	0.035	29	17	0.53	48	0.005	<20	1.29	0.035	0.11	<0.1	<0.01	<0.1	<0.05	1.8	<0.5	4	<0.2
1221703	Rock	0.039	15	14	0.49	33	0.002	<20	0.89	0.012	0.14	<0.1	<0.01	<0.1	<0.05	1.4	<0.5	3	<0.2

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: October 03, 2011

QUALITY CONTROL REPORT WHI11000901.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1204336	Rock	0.97	<2	0.1	4.1	5.6	8	0.1	3.1	0.7	26	0.79	90.3	1.3	3.7	5	<0.1	0.1	0.3	3	<0.01
REP 1204336	QC			0.1	3.9	5.7	8	<0.1	3.0	0.8	26	0.79	95.4	2.7	3.6	5	<0.1	0.1	0.3	2	<0.01
1221766	Rock	0.94	<2	0.2	1.5	13.1	11	<0.1	1.9	0.9	111	0.82	1.1	<0.5	0.7	3	<0.1	0.1	0.1	<2	<0.01
REP 1221766	QC			0.2	1.3	12.4	11	<0.1	1.8	0.8	106	0.78	1.1	<0.5	0.8	3	<0.1	0.1	0.1	<2	<0.01
1221790	Rock	0.41	<2	0.2	13.4	8.6	11	0.2	10.8	5.4	100	1.01	3.5	4.1	20.2	3	<0.1	0.4	0.8	<2	0.02
REP 1221790	QC		<2																		
1221794	Rock	0.49	2	0.2	9.1	7.6	4	0.1	2.1	0.6	46	0.85	22.8	1.5	0.8	<1	<0.1	0.1	0.2	<2	<0.01
REP 1221794	QC		<2																		
Core Reject Duplicates																					
1220610	Rock	1.37	<2	0.1	2.8	54.4	16	0.4	2.9	1.4	359	1.16	7.1	4.3	0.6	7	0.2	0.8	0.7	<2	0.04
DUP 1220610	QC		3	0.1	2.6	47.5	15	0.4	2.7	1.2	332	1.12	6.2	6.1	0.6	7	<0.1	0.8	0.6	<2	0.03
1221776	Rock	0.49	<2	1.7	41.2	36.7	110	0.3	50.9	28.8	769	3.96	30.4	<0.5	8.5	194	0.6	0.1	0.5	155	3.57
DUP 1221776	QC		<2	1.5	38.7	34.2	105	0.4	48.9	27.8	740	3.81	28.9	<0.5	8.1	178	0.6	<0.1	0.4	148	3.49
Reference Materials																					
STD DS8	Standard			13.5	118.0	126.8	326	1.6	39.1	7.8	647	2.65	28.6	90.0	7.0	66	2.4	4.1	6.8	44	0.66
STD DS8	Standard			11.3	105.5	129.7	314	1.8	35.1	7.0	599	2.55	26.4	104.4	6.6	70	2.1	3.7	6.7	42	0.74
STD DS8	Standard			13.5	106.9	122.7	307	1.7	37.6	7.1	619	2.48	24.4	108.7	6.9	75	2.3	4.1	7.4	41	0.72
STD OREAS45CA	Standard			0.7	483.4	20.1	63	0.3	231.5	88.5	889	15.16	3.3	39.1	7.0	15	<0.1	<0.1	0.2	192	0.39
STD OREAS45CA	Standard			0.7	524.7	21.9	75	0.3	262.3	89.2	965	15.27	4.9	50.4	7.3	23	0.1	<0.1	0.2	208	0.47
STD OREAS45CA	Standard			0.6	499.6	21.2	62	0.3	263.5	91.1	944	16.86	3.5	43.7	7.4	18	0.1	<0.1	0.2	211	0.44
STD OXC88	Standard		196																		
STD OXC88	Standard		193																		
STD OXC88	Standard		201																		
STD OXC88	Standard		201																		
STD OXC88	Standard		202																		
STD OXH82	Standard		1371																		
STD OXH82	Standard		1280																		
STD OXH82	Standard		1258																		

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Project: JO
Report Date: October 03, 2011

QUALITY CONTROL REPORT WHI11000901.1

	Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
Pulp Duplicates																			
1204336	Rock	0.008	9	5	<0.01	12	<0.001	<20	0.19	0.001	0.04	<0.1	0.02	<0.1	<0.05	0.4	<0.5	<1	<0.2
REP 1204336	QC	0.010	9	5	<0.01	13	<0.001	<20	0.20	<0.001	0.04	<0.1	0.01	<0.1	<0.05	0.3	0.6	<1	<0.2
1221766	Rock	0.009	1	5	0.01	5	<0.001	<20	0.06	0.004	<0.01	0.3	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
REP 1221766	QC	0.009	1	6	<0.01	5	<0.001	<20	0.06	0.005	<0.01	0.2	<0.01	<0.1	<0.05	0.1	<0.5	<1	<0.2
1221790	Rock	0.016	30	9	0.05	32	0.001	<20	0.20	0.021	0.04	<0.1	0.01	<0.1	0.08	0.4	<0.5	<1	<0.2
REP 1221790	QC																		
1221794	Rock	0.005	<1	6	<0.01	5	<0.001	<20	0.05	0.003	<0.01	<0.1	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
REP 1221794	QC																		
Core Reject Duplicates																			
1220610	Rock	0.025	2	5	<0.01	12	<0.001	<20	0.09	0.002	0.01	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
DUP 1220610	QC	0.023	2	5	<0.01	11	<0.001	<20	0.09	0.002	0.01	<0.1	<0.01	<0.1	<0.05	0.4	<0.5	<1	<0.2
1221776	Rock	0.140	18	303	2.76	510	0.367	<20	2.71	0.081	2.05	0.7	<0.01	1.1	0.27	5.1	<0.5	9	<0.2
DUP 1221776	QC	0.135	17	294	2.69	160	0.343	<20	2.63	0.075	1.98	0.4	<0.01	1.1	0.24	4.7	<0.5	8	<0.2
Reference Materials																			
STD DS8	Standard	0.086	16	125	0.65	293	0.123	<20	0.99	0.094	0.45	2.9	0.19	5.6	0.18	2.3	5.4	5	5.0
STD DS8	Standard	0.086	15	107	0.63	294	0.111	<20	0.95	0.091	0.42	1.9	0.21	5.8	0.17	2.3	5.9	5	4.5
STD DS8	Standard	0.076	15	118	0.60	276	0.123	<20	0.90	0.090	0.40	2.3	0.18	5.3	0.16	1.9	5.7	5	4.3
STD OREAS45CA	Standard	0.034	16	717	0.13	156	0.126	<20	3.69	0.013	0.08	<0.1	0.04	<0.1	<0.05	33.8	0.6	18	<0.2
STD OREAS45CA	Standard	0.042	18	683	0.19	186	0.158	<20	3.85	0.007	0.07	<0.1	0.05	<0.1	<0.05	47.6	2.1	23	<0.2
STD OREAS45CA	Standard	0.038	17	670	0.16	164	0.135	<20	3.85	0.010	0.08	<0.1	0.03	<0.1	<0.05	35.9	0.8	19	<0.2
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXC88	Standard																		
STD OXH82	Standard																		
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QUALITY CONTROL REPORT WHI11000901.1

		WGHT Wgt kg 0.01	3B Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01
STD OXH82	Standard		1299																		
STD OXH82	Standard		1331																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
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BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank		<2	0.1	3.4	4.1	47	<0.1	2.6	3.8	540	1.87	0.8	4.5	5.1	71	<0.1	<0.1	<0.1	35	0.53
G1	Prep Blank		<2	0.1	2.8	4.2	49	<0.1	2.8	3.7	557	2.00	0.7	2.6	5.3	72	<0.1	<0.1	<0.1	38	0.55

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		1DX P % 0.001	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX S % 0.05	1DX Sc ppm 0.1	1DX Se ppm 0.5	1DX Ga ppm 1	1DX Te ppm 0.2
STD OXH82	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	5.4	0.1679	2.3	5.23	4.7	5
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4	
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
Prep Wash																			
G1	Prep Blank	0.072	11	6	0.53	176	0.130	<20	0.99	0.093	0.46	0.1	<0.01	0.3	<0.05	2.0	0.6	5	<0.2
G1	Prep Blank	0.080	12	6	0.57	199	0.129	<20	1.02	0.088	0.50	<0.1	<0.01	0.3	<0.05	2.1	<0.5	6	<0.2

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