ASSESSMENT REPORT

2012 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: June 26th, 2012

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1.0 SUMMARY

An 1 day geochemical sampling program was conducted on the Josephine Property June 26th, 2012. 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 103 soil samples, 43 silt samples, and 23 rock samples were taken over the course of the program. Systematic silt sampling conducted Josephine Creek and its tributaries returned highly anomalous gold values as seen in the 2011 program. Follow-up soil sampling in the Big Creek area showed a 400m EW zone of anomalous gold-in-soil values. Prospecting of hand dug pits in the area yielded a sample of 301 ppb Au.

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 of the Big Creek area showed a zone of interest which coincides with local geology. Mechanical trenching and/or a ground geophysical survey is recommended for this area.

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 2012 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 program, a helicopter was used based from a field camp.

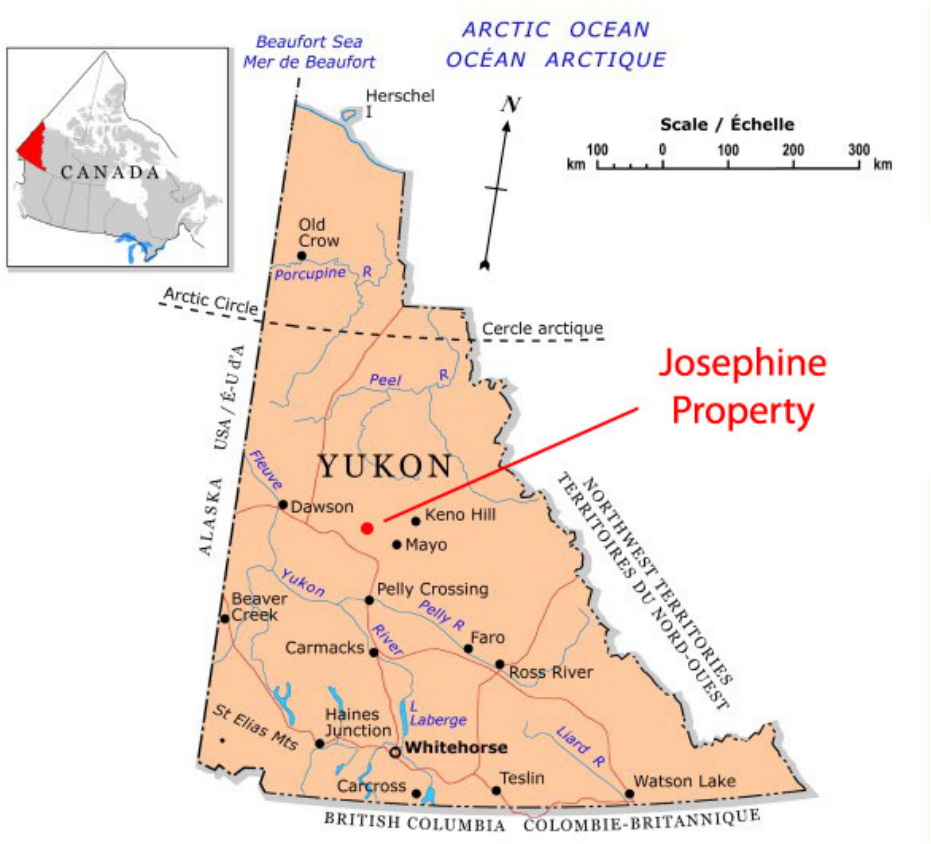


Figure 1: General location of the Josephine Property (modified from NRCAN, 2006).

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	21/09/2017
JO	2	YD93502	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	3	YD93503	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	4	YD93504	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	5	YD93505	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	6	YD93506	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	7	YD93507	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	8	YD93508	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	9	YD93509	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	10	YD93510	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	11	YD93511	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	12	YD93512	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	13	YD93513	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	14	YD93514	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	15	YD93515	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	16	YD93516	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	17	YD93517	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	18	YD93518	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	19	YD93519	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	20	YD93520	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	21	YD93521	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	22	YD93522	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	23	YD93523	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	24	YD93524	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	25	YD93525	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	26	YD93526	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	27	YD93527	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	28	YD93528	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	29	YD93529	Goldspike Exploration Inc. (100%)	Active	21/09/2017

JO	30	YD93530	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	31	YD93531	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	32	YD93532	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	33	YD93533	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	34	YD93534	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	35	YD93535	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	36	YD93536	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	37	YD93537	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	38	YD93538	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	39	YD93539	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	40	YD93540	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	41	YD93541	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	42	YD93542	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	43	YD93543	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	44	YD93544	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	45	YD93545	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	46	YD93546	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	47	YD93547	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	48	YD93548	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	49	YD93549	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	50	YD93550	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	51	YD93551	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	52	YD93552	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	53	YD93553	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	54	YD93554	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	55	YD93555	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	56	YD93556	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	57	YD93557	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	58	YD93558	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	59	YD93559	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	60	YD93560	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	61	YD93561	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	62	YD93562	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	63	YD93563	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	64	YD93564	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	65	YD93565	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	66	YD93566	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	67	YD93567	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	68	YD93568	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	69	YD93569	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	70	YD93570	Goldspike Exploration Inc. (100%)	Active	21/09/2017

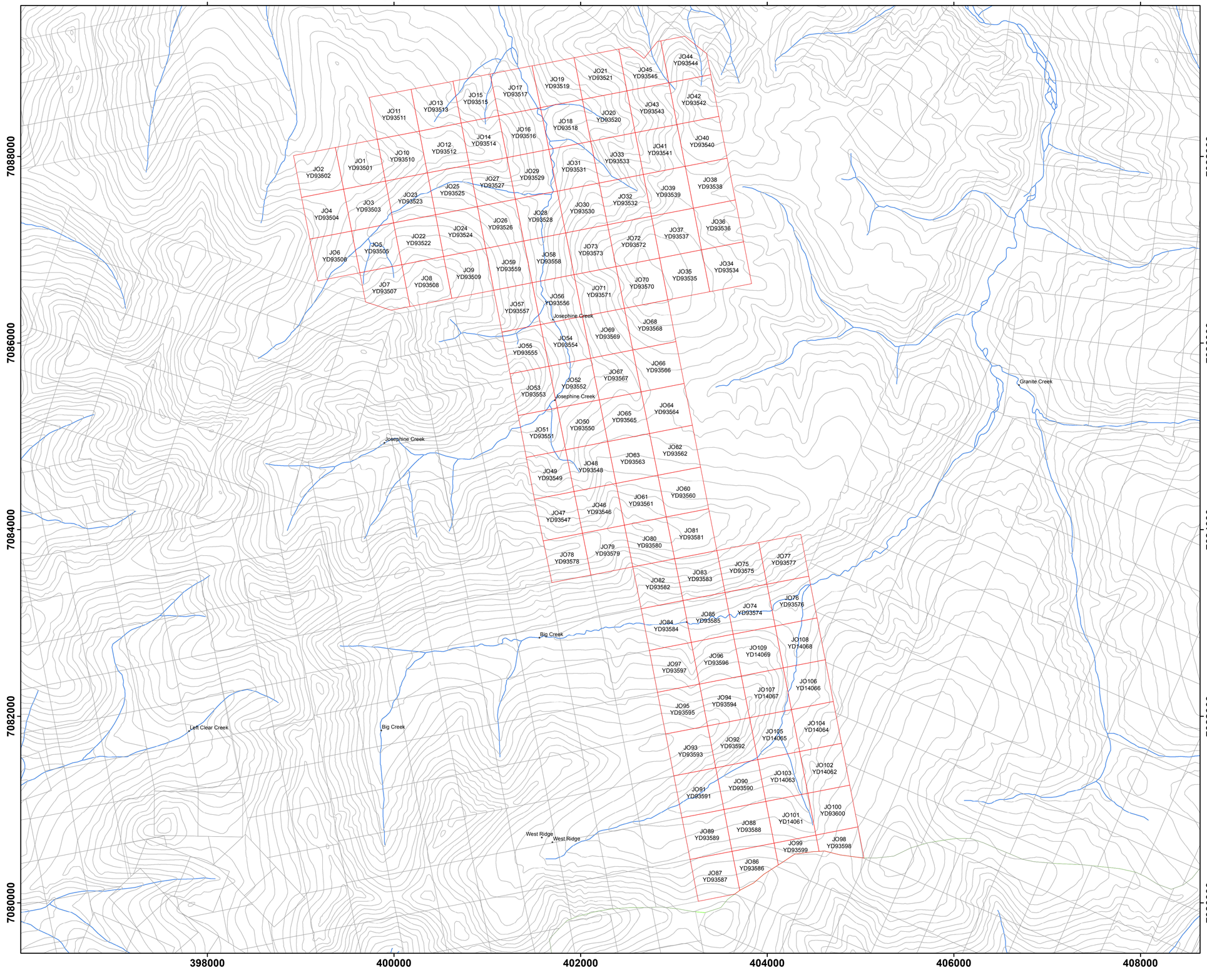
JO	71	YD93571	Goldspike Exploration Inc. (100%)	Active	21/09/2017
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JO	73	YD93573	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	74	YD93574	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	75	YD93575	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	76	YD93576	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	77	YD93577	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	78	YD93578	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	79	YD93579	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	80	YD93580	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	81	YD93581	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	82	YD93582	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	83	YD93583	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	84	YD93584	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	85	YD93585	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	86	YD93586	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	87	YD93587	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	88	YD93588	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	89	YD93589	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	90	YD93590	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	91	YD93591	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	92	YD93592	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	93	YD93593	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	94	YD93594	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	95	YD93595	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	96	YD93596	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	97	YD93597	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	98	YD93598	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	99	YD93599	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	100	YD93600	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	101	YD14061	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	102	YD14062	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	103	YD14063	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	104	YD14064	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	105	YD14065	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	106	YD14066	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	107	YD14067	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	108	YD14068	Goldspike Exploration Inc. (100%)	Active	21/09/2017
JO	109	YD14069	Goldspike Exploration Inc. (100%)	Active	21/09/2017

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 and 2012 work programs 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

A 1 day geochemical sampling program was conducted on the Josephine Property on June 26th, 2012. Working out of a camp, a crew of 6 soil samplers, 1 prospector and one geologist collected 103 soil samples, 43 silt samples, and 23 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.

8.3 Results

The 2012 work program had two objectives. The first was to follow-up on results in the southern (Big Creek area) and northwestern areas of the property. The second was to systematically silt sample Josephine Creek and its tributaries to determine the source of the high gold values seen in the 2011 silt sample results. Soil, silt, and rock results can be found in appendices IV to VI.

Big Creek area

The 2011 program showed a 100 ppb Au soil sample followed by 2 anomalous samples downslope. Arsenic values were found to be roughly concordant to gold in this area. In 2012, two soil sample lines were planned on either side of the anomalous samples as well as further scattered soil samples and prospecting. Results show anomalous soil samples up to 46 ppb Au in an east-west direction. This prospective anomalous area is roughly 400m (EW) by 100m (NS). Prospecting hand dug pits and the limited outcrop yielded pyrite mineralized quartzite and schist. One sample of float, 1240465 yielded 301 ppb Au (Photo 2). This sample was similar in characteristics to nearby outcrops.

Northwestern area

Prospecting did not yield any new information on this area. The 2011 program showed abundant arsenopyrite mineralization as well as minor gold values in this corner of the property. One 2012 rock sample, 1237557, yielded 1414 ppm arsenic (Photo 3).

Silt sampling

Josephine Creek and its main tributary to the west were heavily sampled due to high gold values seen in 2011 (up to 985 ppb Au). The 2012 program saw fairly consistent values of 20-100 ppb Au all along the main tributary flowing from the west. The main Josephine Creek flows from the south. Two tributaries in the south yielded 62 and 71 ppb Au, while values seem to increase towards the north of the property (up to 207 ppb Au). Arsenic and tungsten are roughly concordant.



Photo 2: Sample 1240465, a quartzite with pyrite, yielded 301 ppb Au.



Photo 3: Sample 1237557, a quartzite with arsenopyrite, yielded 1414 ppm As.

Josephine Property

Fig. 4: Sample Location Map

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

- Soil samples
- Silt samples
- Rock samples
- Josephine Property

1:15,000

0 285 570 1,140 1,710 2,280 Meters

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

Josephine Property

Fig. 5: Sample Geochemistry
Gold

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

Soil samples

Au (ppb)

- 0.0 - 10.0
- 10.1 - 20.0
- 20.1 - 46.7

Silt samples

Au (ppb)

- 2.6 - 10.0
- 10.1 - 25.0
- 25.1 - 50.0
- 50.1 - 100.0
- 100.1 - 207.1

Rock samples (ppb Au)

Josephine Property

1:15,000

0 285 570 1,140 1,710 2,280 Meters

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

Josephine Property

Fig. 6: Sample Geochemistry
Arsenic

Goldspike Exploration Inc.

Clear Creek area,
Dawson Mining District

Legend

Soil samples

As (ppm)

- 7.8 - 25.0
- 25.1 - 50.0
- 50.1 - 100.0
- 100.1 - 250.0
- 250.1 - 380.8

Silt samples

As (ppm)

- 14.8 - 25.0
- 25.1 - 50.0
- 50.1 - 100.0
- 100.1 - 250.0
- 250.1 - 505.8

Rock samples (ppb As)

Josephine Property

1:15,000

0 285 570 1,140 1,710 2,280
Meters

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

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 Big Creek area shows a prospective zone. Anomalous soil samples show an open ended east-west length of 400m. This is confirmed by observations in the area of a 270 degree strike to the Hyland Group schist unit. This may also be connected to offsets in the north-south Josephine Fault which runs through this area. Some results downslope may be attributed to soil slumping or the shallow dip to the north of the schist unit. Unfortunately bedrock exposure in this immediate area is fairly limited. A mechanical trenching program or IP survey would be necessary for the next step of exploration of this target.

Silt sampling showed consistently high gold values along Josephine Creek and its tributaries. The source of these values is debatable. Tributaries from the south and west show significant values, but the highest concentrations remain in the central area of Josephine Creek. This could be due to the joining of tributaries, thus increasing the concentration of alluvial gold. It is also possible that the gold has not travelled far, and that some of it is colluvial, coming from the immediate slopes around Josephine Creek. It is recommended that further work be done to investigate the possibility of placer gold recovery in this area.

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STATEMENT OF EXPENDITURES

Costs associated with the Josephine Property
Worked June 26th, 2012

WAGES	6 samples/junior geos	350/day	$2,100.00
	2 prospectors	400/day	$800.00
	cook	350/day	$350.00
	1 geologist	500/day	$500.00
TRANSPORT	helicopter	975/hr	$4,095.00
	helicopter fuel		$840.00
	truck fuel		$50.00
	truck rental	150/day	$150.00
ASSAYS	soil sample assay	$18x103 samples	$1,854.00
	silt sample assay	$18x43 samples	$774.00
	rock sample assay	$24x23 samples	$552.00
CAMP COSTS	food	35/man/day	$350.00
	camp gear and crew gear (generators, fuel drums, propane tanks, water pumps, water tank, hose, batteries, water heater, fridge, freezer, sinks, bbq, kitchen utensils, augers, gold pans, mesh seives, radios, gps, chopper flags, compasses, backpacks, hammers)		$800.00
	consumables (sample bags, tape, AA batteries, pens, markers, flagging tape, sample books, tags, bug spray)		$150.00
	tents and accommodations (8 canvas wall tents, frames, floors, cots, stoves, chimneys, tarps)		$800.00
	safety gear (fire extinguishers, shotgun, signage, stretcher, neck brace, oxygen tank, spill kit, first aid kits, bear spray, bear bangers)		$150.00
	communications (satellite internet, satellite phone)		$50.00
	assessment report		$2,000.00
	maps and drafting		$100.00
	TOTAL		**$16,465.00**

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., Nebu Resources Inc., 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.



Daniel Ferraro, H.B.Sc.

Date: Jan. 3rd, 2013

Appendix I: Soil Sample Descriptions

Josephine Property Sample Descriptions

UTM NAD 83 Zone 8

SOIL SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Depth (cm)	Horizon	Colour	Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Org-anics	Ang. Rock	Gra-vel	Sand	Silt	Clay				
1239841	402335	7084088	1502	26-Jun-12	JO	30-40	c	lt grey		30				70	weathered bedrock	moist	alpine	ridge top
1239842	402326	7084140	1498	26-Jun-12	JO	50-60	c	lt brown		40				60	weathered bedrock	moist	alpine	ridge top
1239843	402324	7084189	1494	26-Jun-12	JO	20-30	b/c	lt brown	5	10				85	weathered bedrock	moist	alpine	mid slope
1239844	402320	7084234	1493	26-Jun-12	JO	0-10	c	lt brown	20			40		40	weathered bedrock	dry	alpine	mid slope
1239845	402306	7084344	1471	26-Jun-12	JO	10-20	c	lt brown	10	10				8	weathered bedrock	moist	alpine	mid slope
1239846	402297	7084390	1457	26-Jun-12	JO	30-40	c	lt brown	5	20				75	weathered bedrock	moist	alpine	mid slope
1239847	402239	7084383	1431	26-Jun-12	JO	50-60	c	lt grey		40				60	weathered bedrock	moist	alpine	mid slope
1239848	402192	7084381	1401	26-Jun-12	JO	30-40	c	lt grey	10	15				75	weathered bedrock	moist	alpine	mid slope
1239849	402142	7084378	1372	26-Jun-12	JO	50-60	b/c	lt brown	10	20				70	weathered bedrock	dry	buck brush	mid slope
1239850	402187	7084441		26-Jun-12	JO	40-50	b/c	lt brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1239851	402234	7084448	1411	26-Jun-12	JO	20-30	b/c	lt brown	5	15				80	weathered bedrock	moist	buck brush	mid slope
1239852	402286	7084445	1432	26-Jun-12	JO	20-30	b/c	dk brown	10	40				50	weathered bedrock	moist	alpine	mid slope
1239853	402278	7084490	1420	26-Jun-12	JO	30-40	b/c	lt brown	5	15				80	weathered bedrock	moist	alpine	mid slope
1239854	402265	7084531	1409	26-Jun-12	JO	20-30	c	lt brown	10	20				70	weathered bedrock	dry	alpine	mid slope
1239855	402244	7084585	1394	26-Jun-12	JO	20-30	b/c	lt grey	10	20				70	weathered bedrock	dry	alpine	mid slope
1239856	402227	7084623	1379	26-Jun-12	JO	40-50	b/c	dk brown	10	20				70	weathered bedrock	moist	alpine	mid slope
1239857	402214	7084678	1372	26-Jun-12	JO	10-20	b/c	lt brown	10	20				70	weathered bedrock	dry	alpine	mid slope
1239858	402180	7084716	1355	26-Jun-12	JO	40-50	b/c	dk brown	10	20				70	weathered bedrock	moist	buck brush	mid slope
1239859	402159	7084759	1348	26-Jun-12	JO	20-30	b/c	lt brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1239860	402131	7084806	1334	26-Jun-12	JO	10-20	b/c	lt grey	10	10				80	weathered bedrock	moist	buck brush	mid slope
1239861	402106	7084847	1318	26-Jun-12	JO	30-40	b/c	lt brown	10	10				80	weathered bedrock	dry	buck brush	mid slope
1239862	402077	7084884	1303	26-Jun-12	JO	30-40	b/c	lt grey	10	10				80	weathered bedrock	moist	buck brush	mid slope
1239863	402037	7084925	1274	26-Jun-12	JO	40-50	c	lt grey		30				70	weathered bedrock	moist	buck brush	mid slope
1239864	402003	7084954	1254	26-Jun-12	JO	30-40	b/c	lt grey	10	10				80	weathered bedrock	dry	buck brush	mid slope
1239865	401955	7084983	1232	26-Jun-12	JO	40-50	c	lt brown		20				80	weathered bedrock	moist	buck brush	mid slope
1239866	401922	7085019	1210	26-Jun-12	JO	30-40	b/c	dk brown	10	10				80	weathered bedrock	moist	evergreen forest	mid slope
1239867	401895	7085063	1197	26-Jun-12	JO	70-80	c	lt brown		20				80	weathered bedrock	moist	evergreen forest	mid slope
1239868	401866	7085097	1187	26-Jun-12	JO	50-60	c	lt brown						100	weathered bedrock	saturated	evergreen forest	mid slope
1239869	401829	7085140	1178	26-Jun-12	JO	60-70	c	lt brown		10				90	weathered bedrock	wet	evergreen forest	mid slope
1239870	401795	7085181	1165	26-Jun-12	JO	50-60	b/c	lt brown	10	10				80	weathered bedrock	wet	evergreen forest	valley bottom
1239871	401776	7085216	1151	26-Jun-12	JO	60-70	c	lt brown		10				90	weathered bedrock	wet	evergreen forest	valley bottom
1240228	402541	7084094	1537	26-Jun-12	JO	0-10	b	dk brown	50					50	talus	moist	alpine	ridge top
1240229	402536	7084146	1511	26-Jun-12	JO	20-30	b	dk grey	50					50	talus	moist	alpine	mid slope
1240230	402533	7084198	1487	26-Jun-12	JO	20-30	b	dk grey	50					50	talus	moist	alpine	mid slope
1240231	402529	7084243	1476	26-Jun-12	JO	30-40	b/c	dk brown	20	20				60	talus	moist	alpine	mid slope
1240232	402527	7084298	1461	26-Jun-12	JO	30-40	b/c	dk brown	20	10				70	talus	moist	alpine	mid slope
1240233	402518	7084346	1447	26-Jun-12	JO	40-50	c	lt brown						100	loess	moist	buck brush	mid slope
1240234	402501	7084395	1428	26-Jun-12	JO	20-30	b	dk grey	30	40				30	talus	wet	alpine	mid slope
1240235	402488	7084448	1409	26-Jun-12	JO	30-40	b/c	lt brown	10	30				60	talus	moist	buck brush	mid slope
1240236	402479	7084491	1399	26-Jun-12	JO	30-40	b/c	dk brown	10	20				70	weathered bedrock	wet	buck brush	mid slope
1240237	402455	7084535	1388	26-Jun-12	JO	30-40	c	dk brown		30				70	weathered bedrock	moist	buck brush	mid slope
1240238	402445	7084580	1382	26-Jun-12	JO	30-40	b/c	dk brown		20				80	weathered bedrock	moist	evergreen forest	mid slope
1240239	402422	7084641	1370	26-Jun-12	JO	40-50	c	lt brown		35				65	weathered bedrock	moist	evergreen forest	mid slope
1240240	402409	7084678	1364	26-Jun-12	JO	40-50	c	lt brown		30				70	weathered bedrock	moist	evergreen forest	mid slope
1240241	402401	7084726	1356	26-Jun-12	JO	30-40	c	lt brown		30				70	weathered bedrock	moist	alpine	mid slope
1240242	402379	7084771	1349	26-Jun-12	JO	40-50	c	lt brown		20				80	weathered bedrock	moist	evergreen forest	mid slope
1240243	402356	7084833	1338	26-Jun-12	JO	20-30	b/c	lt brown	5	25				70	weathered bedrock	moist	evergreen forest	mid slope
1240244	402349	7084867	1331	26-Jun-12	JO	50-60	c	dk grey		25				75	weathered bedrock	moist	evergreen forest	mid slope
1240245	402306	7084923	1319	26-Jun-12	JO	20-30	b/c	dk grey	15	30				55	loess	moist	evergreen forest	mid slope
1240246	402298	7084955	1311	26-Jun-12	JO	30-40	c	lt brown		20				80	weathered bedrock	moist	evergreen forest	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Depth (cm)	Horizon	Colour	Composition						Parent Material	Moisture Content	Vegetation Cover	Topo Position
									Org-anics	Ang. Rock	Gra-vel	Sand	Silt	Clay				
1240247	402279	7085003	1300	26-Jun-12	JO	30-40	c	lt brown		20				80	weathered bedrock	moist	evergreen forest	mid slope
1240248	402248	7085052	1283	26-Jun-12	JO	40-50	c	lt brown		25				75	weathered bedrock	moist	buck brush	mid slope
1240249	402222	7085083	1271	26-Jun-12	JO	20-30	c	lt brown	10	25				65	talus	wet	evergreen forest	mid slope
1240250	402195	7085121	1250	26-Jun-12	JO	20-30	b/c	dk brown	20	10				70	weathered bedrock	moist	evergreen forest	mid slope
1241401	402159	7085159	1236	26-Jun-12	JO	30-40	c	lt brown		30				70	weathered bedrock	moist	evergreen forest	mid slope
1241402	402123	7085211	1217	26-Jun-12	JO	40-50	c	lt brown	5	25				70	weathered bedrock	moist	evergreen forest	mid slope
1241403	402099	7085256	1203	26-Jun-12	JO	30-40	c	lt brown	5	25				70	weathered bedrock	moist	evergreen forest	mid slope
1241404	402069	7085275	1193	26-Jun-12	JO	30-40	b/c	dk brown	10	20				70	weathered bedrock	moist	evergreen forest	mid slope
1241405	402036	7085324	1176	26-Jun-12	JO	30-40	b/c	dk grey	20	20				60	weathered bedrock	moist	evergreen forest	mid slope
1241406	402010	7085367	1164	26-Jun-12	JO	40-50	c	lt brown		25				75	weathered bedrock	moist	evergreen forest	mid slope
1241407	401987	7085405	1151	26-Jun-12	JO	20-30	b/c	dk grey	10	25				65	weathered bedrock	moist	evergreen forest	mid slope
1241408	401959	7085455	1132	26-Jun-12	JO	30-40	b/c	dk brown	5	25				70	weathered bedrock	moist	alpine	mid slope
1240018	402223	7083793	1485	26-Jun-12	JO	20-30	b/c	lt brown		10				90	weathered bedrock	dry	alpine	ridge top
1240019	402270	7083819	1477	26-Jun-12	JO	10-20	b/c	lt brown		10				90	weathered bedrock	dry	alpine	ridge top
1240020	402300	7083838	1473	26-Jun-12	JO	10-20	c	lt brown		20				80	weathered bedrock	dry	alpine	ridge top
1240021	402338	7083845	1452	26-Jun-12	JO	40-50		lt brown		40		60			weathered bedrock	dry	alpine	mid slope
1240022	402406	7083817	1419	26-Jun-12	JO	10-20	b/c	lt brown	30	20		50			weathered bedrock	dry	alpine	mid slope
1240023	402437	7083805	1412	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240024	402500	7083769	1404	26-Jun-12	JO	60-70	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240025	402541	7083769	1405	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240026	402578	7083766	1408	26-Jun-12	JO	30-40	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240027	402627	7083755	1403	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240028	402667	7083738	1403	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240029	402733	7083709	1398	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	evergreen forest	mid slope
1240030	402797	7083691	1404	26-Jun-12	JO	20-30		lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240031	402845	7083699	1415	26-Jun-12	JO	30-40	c	lt brown		30		70			weathered bedrock	dry	alpine	mid slope
1240032	402879	7083693	1414	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240033	402926	7083688	1416	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240034	402970	7083682	1416	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240035	403015	7083672	1411	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	alpine	mid slope
1240036	403059	7083663	1406	26-Jun-12	JO	20-30	c	lt brown		10		90			weathered bedrock	dry	alpine	mid slope
1240037	403113	7083653	1402	26-Jun-12	JO	30-40		lt brown		40		60			weathered bedrock	dry	alpine	mid slope
1240038	403175	7083652	1402	26-Jun-12	JO	40-50	c	lt brown		20		80			weathered bedrock	dry	alpine	mid slope
1240039	403230	7083625	1385	26-Jun-12	JO	30-40	c	lt brown		30		70			weathered bedrock	dry	evergreen forest	mid slope
1240040	403265	7083623	1381	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	alpine	mid slope
1240041	403318	7083614	1368	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	alpine	mid slope
1240042	403364	7083620	1367	26-Jun-12	JO	20-30	c	lt brown		40		60			weathered bedrock	dry	buck brush	mid slope
1240043	403409	7083618	1360	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	buck brush	mid slope
1240044	403459	7083610	1354	26-Jun-12	JO	20-30	c	lt brown	20	20		60			weathered bedrock	dry	buck brush	mid slope
1240045	403510	7083610	1350	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	buck brush	mid slope
1240046	403562	7083621	1347	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	buck brush	mid slope
1240047	403601	7083628	1344	26-Jun-12	JO	30-40	c	lt brown		20		80			weathered bedrock	dry	buck brush	mid slope
1240048	403646	7083621	1326	26-Jun-12	JO	30-40	c	lt brown		30		70			weathered bedrock	dry	alpine	mid slope
1240049	403712	7083587	1298	26-Jun-12	JO	30-40	c	lt brown		20		80			weathered bedrock	dry	buck brush	mid slope
1240050	403769	7083563	1291	26-Jun-12	JO	30-40	c	lt brown		20		80			weathered bedrock	dry	buck brush	mid slope
1240051	403805	7083578	1288	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	buck brush	mid slope
1240052	403851	7083561	1271	26-Jun-12	JO	20-30	c	lt brown		10		90			weathered bedrock	dry	buck brush	mid slope
1240053	403900	7083540	1246	26-Jun-12	JO	20-30	c	lt brown		40		60			weathered bedrock	dry	buck brush	mid slope
1240054	403953	7083551	1223	26-Jun-12	JO	30-40	c	lt brown		20		60		20	weathered bedrock	moist	evergreen forest	mid slope
1240055	404026	7083552	1212	26-Jun-12	JO	20-30	c	lt brown		40		60			weathered bedrock	dry	evergreen forest	mid slope
1240056	404061	7083525	1190	26-Jun-12	JO	20-30	c	lt brown		20		80			weathered bedrock	dry	evergreen forest	mid slope
1240057	404105	7083509	1181	26-Jun-12	JO	20-30	c	lt brown		40		60			weathered bedrock	dry	evergreen forest	mid slope
1240058	404149	7083486	1157	26-Jun-12	JO	20-30	c	lt brown		30		70			weathered bedrock	dry	evergreen forest	mid slope

Appendix II: Silt Sample Descriptions

Josephine Property Sample Descriptions

UTM NAD 83 Zone 8

SILT SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Environment	Medium	Medium depth (m)	Medium width (m)	Bank type	Water colour	Vegetation cover
1237560	399687	7086813	1251	26-Jun-12	JO	Low energy	creek	0.1	0.6	organics	clear	grassy
1237561	399724	7087003	1212	26-Jun-12	JO	Low energy	creek	0.2	0.8	organics	clear	grassy
1241053	401674	7084911	1156	26-Jun-12	JO	Low energy	creek	0.2	0.6	organics	clear	grassy
1241054	401639	7085105	1131	26-Jun-12	JO	Low energy	creek	0.15	0.2	organics	clear	grassy
1241055	401589	7085215	1121	26-Jun-12	JO	Low energy	creek	0.05	2	organics	clear	grassy
1241056	401833	7085573	1101	26-Jun-12	JO	Low energy	creek	0.2	0.5	organics	clear	grassy
1241057	401867	7085654	1097	26-Jun-12	JO	Low energy	creek	0.1	2.5	organics	clear	grassy
1241058	401867	7085884	1081	26-Jun-12	JO	Low energy	creek	0.1	0.4	organics	clear	grassy
1241059	401693	7086255	1059	26-Jun-12	JO	Low energy	creek	0.15	3	organics	clear	grassy
1241060	401617	7086496	1046	26-Jun-12	JO	Low energy	creek	0.1	3.5	organics	clear	grassy
1241061	401598	7086501	1044	26-Jun-12	JO	Low energy	creek	0.1	1	organics	clear	grassy
1241062	401623	7087524	1001	26-Jun-12	JO	Low energy	creek	0.1	1.5	organics	clear	grassy
1205884	401680	7087664	1010	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	grassy
1205885	401686	7087824	998	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205886	401688	7088086	982	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205887	401635	7088311	973	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205888	401599	7088443	970	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205889	401532	7088544	967	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205890	401423	7088757	961	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205891	401359	7088848	957	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205892	401312	7088945	954	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205893	401315	7089025	951	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205894	401304	7089103	948	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205895	401261	7089196	943	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205896	401219	7089267	941	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1205897	401180	7089403	935	26-Jun-12	JO	Low energy	creek	0.3	2	alluvial	clear	coniferous
1206651	399342	7086796	1265	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206652	399415	7086849	1257	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206653	399449	7086881	1251	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206654	399560	7086990	1232	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206655	399753	7087161	1205	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206656	399803	7087226	1194	26-Jun-12	JO	Low energy	creek	0.1	1.5	alluvial	clear	coniferous
1206657	399871	7087315	1186	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206658	399992	7087454	1172	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206659	400194	7087548	1154	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206660	400326	7087622	1136	26-Jun-12	JO	Low energy	creek	0.1	1.5	alluvial	clear	coniferous
1206661	400476	7087686	1116	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Environment	Medium	Medium depth (m)	Medium width (m)	Bank type	Water colour	Vegetation cover
1206662	400751	7087739	1085	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206663	400838	7087726	1076	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206664	400924	7087690	1067	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206665	401042	7087662	1055	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1206666	401132	7087623	1049	26-Jun-12	JO	Low energy	creek	0.2	1.5	alluvial	clear	coniferous
1238438	401811	7085638	1098	26-Jun-12	JO	very low energy	trickle	0.1	1.5	alluvial	clear	coniferous

Appendix III: Rock Sample Descriptions

Josephine Property Sample Descriptions

UTM NAD 83 Zone 8

ROCK SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Rock Source	Description
1237557	399314	7086473	1347	26-Jun-12	JO	float	oxidized quartzite with arsenopyrite
1237558	399642	7086455	1382	26-Jun-12	JO	float	oxidized quartzite with fine grained sulphides
1237559	399626	7086572	1335	26-Jun-12	JO	outcrop	oxidized quartzite with sulphides and manganese stains
1237562	400257	7086827	1378	26-Jun-12	JO	float	oxidized quartzite
1237563	400203	7086792	1371	26-Jun-12	JO	float	soft mica-rich rusty schist with slickenslides
1237564	400153	7086772	1363	26-Jun-12	JO	float	heavy rusty recrystalized schist with arsenic staining
1237565	399843	7086850	1292	26-Jun-12	JO	float	rusty recrystalized schist with quartz veins with manganese stains
1206700	400479	7087730	1115	26-Jun-12	JO	talus	oxidized quartz with mineralization of pyrite/chalcopyrite.
1206094	402539	7084059	1531	26-Jun-12	JO	float	quartzite, oxidized with copper colored mins
1206095	402491	7084067	1517	26-Jun-12	JO	float	quartz/quartzite with iron staining, bornite?
1206096	402326	7084225	1498	26-Jun-12	JO	float	quartz, recrystallized, chert like, iron stained
1206097	402358	7084289	1492	26-Jun-12	JO	outcrop	quartzite with 2cm quartz vein, oxidized, iron staining, like 1206096
1206098	402333	7084345	1479	26-Jun-12	JO	float	quartzite, highly oxidized, oily looking surface, looks like 6096 and 6097
1206099	402333	7084405	1451	26-Jun-12	JO	outcrop	quartzite, chert like, oxidized, stained, arsenopyrite, possible chalcopyrite
1206100	402398	7084396	1449	26-Jun-12	JO	float	fine grained felsic, 1cm phenocrysts
1240460	402619	7084375	1439	26-Jun-12	JO	float	quartz boulder, oxidized with pyrite cubes
1240461	402315	7084502	1410	26-Jun-12	JO	float	quartz and quartzite, oxidized, with sulfides
1240462	402268	7084523	1406	26-Jun-12	JO	outcrop	quartzite, foliated, pyrite, outcrop: 322 degree strike, 42 degree dip NE
1240463	402254	7084570	1390	26-Jun-12	JO	outcrop	quartz with disseminated sulfides, galena?
1240464	402198	7084706	1357	26-Jun-12	JO	outcrop	chert/quartzite, foliated, folded, with quartz veins, oxidized blue green mins, outcrop: 296 degree strike, 32 degree dip NE
1240465	402089	7084554	1308	26-Jun-12	JO	float	felsic rock with pyrite and quartzite, foliated with staining
1240466	401698	7084504	1280	26-Jun-12	JO	float	quartz boulder, green blue mins, oxidized
1240467	401626	7084557	1265	26-Jun-12	JO	outcrop	gneiss/chert contact with oxidized quartz veining, blue/green mins

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-Dawson City
Received: June 28, 2012
Report Date: July 11, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS DAW12000065.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO Soils 1
P.O. Number
Number of Samples: 103

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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	103	Dry at 60C			DAW
SS80	103	Dry at 60C sieve 100g to -80 mesh			DAW
RJSV	103	Saving all or part of Soil Reject			DAW
1DX2	103	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.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
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: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

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
1239841	Soil	1.1	53.8	8.7	72	0.1	41.6	17.5	247	3.32	71.7	15.0	7.0	25	0.1	11.5	0.5	22	0.04	0.049	28
1239842	Soil	0.8	36.1	11.7	86	<0.1	120.4	29.5	732	4.90	57.9	3.6	11.0	15	0.1	9.3	0.4	53	0.12	0.067	36
1239843	Soil	1.3	14.0	20.4	39	0.1	11.6	4.8	163	2.25	27.6	5.9	1.0	14	0.1	4.6	0.3	47	0.05	0.063	24
1239844	Soil	0.9	16.9	13.1	46	0.1	15.2	7.0	289	2.55	19.9	4.2	2.9	8	0.2	2.2	0.3	45	0.05	0.035	14
1239845	Soil	0.7	26.2	28.8	83	0.2	38.7	18.9	501	2.77	164.8	1.2	9.2	13	0.3	6.1	1.3	15	0.06	0.051	33
1239846	Soil	0.8	15.2	13.7	42	0.1	13.3	6.6	273	2.46	248.3	25.5	6.7	9	0.1	3.4	1.0	28	0.05	0.040	21
1239847	Soil	0.8	28.8	13.7	51	0.2	21.9	11.9	194	2.32	326.7	46.7	12.5	14	0.1	9.9	1.4	13	0.04	0.041	45
1239848	Soil	0.7	19.0	14.1	51	0.1	17.1	7.7	238	2.29	129.5	15.7	6.9	11	0.3	3.8	0.8	30	0.08	0.049	21
1239849	Soil	0.9	22.2	26.0	60	0.3	19.5	11.6	260	2.87	124.6	6.4	9.9	10	0.3	5.9	0.6	27	0.06	0.043	25
1239850	Soil	1.0	22.8	9.9	53	<0.1	21.7	11.7	269	2.65	102.5	12.1	5.9	13	0.2	4.4	0.4	32	0.11	0.060	22
1239851	Soil	1.8	42.5	16.9	75	0.2	41.0	33.4	510	3.70	201.5	17.1	10.0	17	0.2	5.7	0.8	16	0.03	0.057	43
1239852	Soil	1.2	23.4	11.6	54	<0.1	18.4	9.4	254	2.81	191.0	17.0	6.8	11	0.3	5.1	0.6	33	0.08	0.049	25
1239853	Soil	0.9	21.0	12.9	61	0.1	20.9	12.6	546	3.23	35.2	3.2	6.1	12	0.3	2.0	0.4	34	0.07	0.059	16
1239854	Soil	1.1	13.6	13.4	42	<0.1	16.1	6.8	241	2.74	15.1	1.8	2.7	11	0.1	0.9	0.2	51	0.09	0.040	14
1239855	Soil	1.1	13.9	13.6	40	<0.1	13.5	5.0	194	2.68	14.8	2.5	4.2	8	<0.1	1.4	0.3	54	0.04	0.024	13
1239856	Soil	0.9	18.2	10.2	42	<0.1	19.6	9.3	256	2.37	13.1	10.8	3.9	13	0.2	1.0	0.1	38	0.09	0.045	17
1239857	Soil	1.1	14.5	13.0	41	0.1	17.9	12.5	245	2.58	13.5	4.4	4.1	12	0.1	1.3	0.2	44	0.06	0.029	16
1239858	Soil	1.2	18.1	13.4	36	0.1	12.7	4.3	127	2.03	10.5	1.8	1.5	14	0.1	0.9	0.3	38	0.05	0.042	19
1239859	Soil	1.0	28.9	14.9	51	<0.1	23.0	12.6	218	3.00	14.1	2.5	7.5	19	0.2	0.8	0.2	36	0.06	0.035	22
1239860	Soil	0.9	8.0	10.3	25	<0.1	10.0	5.6	154	1.87	7.8	1.2	3.4	9	<0.1	0.7	0.2	43	0.05	0.019	14
1239861	Soil	0.9	24.7	11.3	51	0.1	20.6	10.5	303	2.47	12.1	3.2	4.7	14	0.1	0.8	0.2	43	0.13	0.050	15
1239862	Soil	0.9	24.6	12.0	74	0.1	39.2	16.4	518	2.53	35.4	1.9	3.9	23	0.2	0.9	0.2	34	0.19	0.066	21
1239863	Soil	0.8	13.0	17.0	35	<0.1	11.5	4.4	141	1.82	11.3	0.9	0.8	12	0.1	0.7	0.2	35	0.07	0.042	18
1239864	Soil	0.8	15.4	34.6	54	0.2	15.5	4.8	149	1.90	25.1	4.7	1.7	15	0.5	1.1	0.2	36	0.10	0.044	17
1239865	Soil	0.8	13.9	21.2	50	<0.1	13.4	9.1	356	2.33	17.3	1.4	2.6	11	0.2	0.9	0.2	36	0.08	0.042	15
1239866	Soil	0.8	15.1	15.1	42	0.1	12.2	5.1	190	1.99	19.4	6.0	1.2	14	<0.1	1.5	0.4	35	0.10	0.049	19
1239867	Soil	0.8	9.8	10.0	35	<0.1	10.3	4.7	154	1.84	19.5	2.2	0.9	11	<0.1	0.6	0.2	36	0.09	0.044	14
1239868	Soil	0.7	10.5	9.9	30	<0.1	9.7	3.7	109	1.81	12.3	2.8	1.1	10	<0.1	0.5	0.2	35	0.08	0.036	15
1239869	Soil	0.8	13.4	10.9	38	<0.1	11.7	4.9	175	1.68	15.7	2.2	1.1	11	0.1	0.6	0.2	33	0.09	0.045	16
1239870	Soil	0.8	15.3	12.7	44	<0.1	13.2	5.3	169	1.97	21.8	3.1	2.4	12	<0.1	0.8	0.2	32	0.10	0.047	20

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.

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: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1239841	Soil		18	0.27	84	0.008	1	0.94	0.005	0.05	<0.1	0.04	2.0	0.1	<0.05	3	<0.5	<1	<0.2
1239842	Soil		140	1.19	94	0.014	1	1.68	0.004	0.06	<0.1	0.01	6.6	0.2	<0.05	5	<0.5	2	<0.2
1239843	Soil		20	0.21	63	0.012	2	1.04	0.004	0.05	0.3	0.07	4.0	0.6	0.05	4	0.5	2	<0.2
1239844	Soil		20	0.28	66	0.030	2	1.08	0.005	0.04	0.2	0.05	1.9	0.2	<0.05	4	<0.5	2	<0.2
1239845	Soil		10	0.20	60	0.008	<1	0.64	0.004	0.05	0.1	0.02	1.4	0.2	<0.05	2	<0.5	<1	<0.2
1239846	Soil		16	0.20	47	0.025	1	0.68	0.009	0.04	0.2	0.03	1.4	0.2	<0.05	3	<0.5	1	<0.2
1239847	Soil		10	0.11	63	0.006	<1	0.45	0.003	0.04	0.1	0.02	1.5	0.4	<0.05	2	<0.5	1	<0.2
1239848	Soil		18	0.29	71	0.021	1	0.96	0.005	0.04	0.2	0.04	1.8	0.2	<0.05	3	<0.5	2	<0.2
1239849	Soil		17	0.29	60	0.018	<1	0.92	0.005	0.04	0.2	0.04	1.7	0.3	<0.05	3	<0.5	5	<0.2
1239850	Soil		19	0.31	74	0.023	<1	0.91	0.004	0.05	0.3	0.03	2.0	0.2	<0.05	3	<0.5	<1	<0.2
1239851	Soil		10	0.14	63	0.008	<1	0.61	0.006	0.07	0.2	0.03	2.0	0.2	<0.05	2	<0.5	4	<0.2
1239852	Soil		19	0.29	60	0.024	1	1.02	0.005	0.05	0.3	0.03	2.1	0.2	<0.05	3	<0.5	<1	<0.2
1239853	Soil		22	0.32	70	0.026	1	1.51	0.005	0.04	0.2	0.04	2.1	0.1	<0.05	4	0.7	2	<0.2
1239854	Soil		24	0.36	73	0.041	2	1.35	0.006	0.03	0.2	0.04	2.2	<0.1	<0.05	5	<0.5	1	<0.2
1239855	Soil		18	0.22	70	0.054	1	0.93	0.004	0.04	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	1	<0.2
1239856	Soil		19	0.34	88	0.026	<1	1.19	0.005	0.04	0.2	0.04	1.8	<0.1	<0.05	4	<0.5	1	<0.2
1239857	Soil		20	0.29	66	0.030	<1	1.23	0.005	0.03	0.2	0.03	1.8	<0.1	<0.05	5	<0.5	<1	<0.2
1239858	Soil		19	0.28	52	0.022	<1	1.00	0.006	0.03	0.2	0.05	1.4	<0.1	<0.05	5	<0.5	1	<0.2
1239859	Soil		21	0.40	71	0.022	<1	1.28	0.005	0.03	0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<1	<0.2
1239860	Soil		16	0.18	73	0.035	<1	0.99	0.004	0.03	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<1	<0.2
1239861	Soil		29	0.41	166	0.039	<1	1.54	0.008	0.05	0.2	0.04	3.3	0.1	<0.05	4	0.6	1	<0.2
1239862	Soil		23	0.42	141	0.028	1	1.21	0.007	0.04	0.2	0.03	2.6	<0.1	<0.05	3	<0.5	<1	<0.2
1239863	Soil		19	0.31	78	0.020	<1	0.94	0.006	0.04	0.2	0.04	1.1	<0.1	<0.05	4	<0.5	8	<0.2
1239864	Soil		20	0.36	107	0.024	<1	1.03	0.006	0.05	0.1	0.04	1.6	<0.1	0.07	4	<0.5	<1	<0.2
1239865	Soil		20	0.33	67	0.025	<1	1.19	0.005	0.04	0.1	0.03	1.7	<0.1	<0.05	4	<0.5	1	<0.2
1239866	Soil		22	0.36	100	0.022	<1	1.06	0.005	0.04	0.1	0.03	1.6	0.2	0.06	4	<0.5	<1	<0.2
1239867	Soil		21	0.31	73	0.023	<1	1.05	0.005	0.03	0.2	0.04	1.5	0.1	<0.05	4	<0.5	<1	<0.2
1239868	Soil		21	0.30	78	0.023	<1	1.08	0.006	0.03	0.1	0.03	1.6	0.1	0.08	4	<0.5	<1	<0.2
1239869	Soil		21	0.32	76	0.022	<1	0.98	0.005	0.04	0.1	0.03	1.4	0.1	<0.05	4	<0.5	<1	<0.2
1239870	Soil		21	0.35	68	0.025	<1	1.12	0.005	0.03	0.1	0.04	1.8	<0.1	<0.05	4	<0.5	<1	<0.2

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Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

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
1239871	Soil	0.8	13.7	12.2	38	<0.1	11.8	4.7	153	2.07	18.0	2.0	1.6	11	0.1	0.6	0.2	33	0.08	0.047	19
1240018	Soil	1.6	24.1	19.5	30	0.2	9.0	3.1	95	2.74	54.1	3.4	0.5	7	<0.1	1.1	0.5	36	0.03	0.090	15
1240019	Soil	0.9	20.8	14.2	38	0.2	13.7	5.2	193	2.55	59.9	5.5	3.1	9	0.2	1.0	0.3	31	0.07	0.046	19
1240020	Soil	0.9	14.1	15.2	25	0.2	7.2	2.3	87	1.66	33.8	4.9	1.8	7	0.1	1.1	0.5	28	0.03	0.038	23
1240021	Soil	1.3	34.2	22.6	60	0.3	19.9	7.0	170	3.37	380.8	37.6	5.3	12	0.1	3.3	1.1	25	0.05	0.043	31
1240022	Soil	0.9	19.0	10.9	34	0.4	18.3	10.4	834	1.80	163.6	1.3	0.6	12	0.2	1.6	0.8	29	0.07	0.054	17
1240023	Soil	1.3	22.3	11.1	49	0.4	25.3	7.0	282	2.63	137.1	3.1	1.0	11	0.2	1.6	0.7	33	0.10	0.047	19
1240024	Soil	1.3	21.4	13.1	52	0.1	28.7	12.5	430	2.69	161.3	6.1	3.7	10	0.2	2.1	0.7	34	0.10	0.047	20
1240025	Soil	1.1	13.9	8.6	45	0.1	17.5	6.0	231	2.19	113.8	6.1	0.9	8	0.1	1.3	0.3	35	0.10	0.038	15
1240026	Soil	1.1	18.0	12.9	47	0.2	22.1	6.8	230	2.41	133.3	21.6	1.6	10	0.2	2.1	0.5	35	0.11	0.040	16
1240027	Soil	1.0	15.9	11.3	45	<0.1	20.3	5.8	197	2.32	59.4	8.3	1.0	8	0.1	2.3	0.3	36	0.08	0.036	18
1240028	Soil	1.0	18.9	11.7	49	<0.1	24.5	8.1	253	2.59	51.0	4.0	2.3	8	0.1	1.9	0.3	33	0.08	0.039	18
1240029	Soil	0.8	17.5	12.1	46	0.1	25.9	8.1	297	2.24	31.5	2.2	0.9	8	<0.1	1.7	0.2	31	0.10	0.036	18
1240030	Soil	0.9	19.8	13.6	53	0.2	26.4	11.8	422	2.46	65.2	17.6	2.6	9	0.1	2.5	0.2	32	0.10	0.044	22
1240031	Soil	1.0	18.0	14.9	49	0.1	22.2	6.4	232	2.40	54.0	4.1	2.1	8	0.1	1.6	0.3	34	0.09	0.036	20
1240032	Soil	0.9	17.5	11.7	49	0.1	22.4	9.4	365	2.44	27.7	2.6	1.6	9	0.1	1.0	0.2	35	0.10	0.047	17
1240033	Soil	0.8	27.6	16.2	65	<0.1	40.4	16.5	530	2.77	49.6	2.1	6.2	9	0.2	2.2	0.3	30	0.09	0.039	30
1240034	Soil	0.9	15.9	12.1	45	0.1	19.4	5.9	223	2.40	23.5	2.3	1.1	8	0.1	1.0	0.3	38	0.08	0.039	15
1240035	Soil	1.0	22.7	14.8	59	<0.1	33.8	13.1	445	2.82	41.9	4.8	2.2	9	0.2	2.4	0.2	37	0.09	0.047	20
1240036	Soil	1.1	17.2	14.2	50	0.1	22.7	7.8	355	2.53	33.5	4.0	0.6	7	0.1	2.8	0.2	36	0.07	0.054	19
1240037	Soil	1.1	19.7	16.5	52	<0.1	23.7	6.5	221	2.73	26.1	3.1	1.6	8	<0.1	2.8	0.2	37	0.08	0.044	21
1240038	Soil	1.0	23.6	17.2	63	<0.1	30.3	9.8	340	2.92	58.8	13.3	7.0	8	0.2	4.0	0.2	33	0.07	0.036	28
1240039	Soil	1.1	19.0	15.5	51	<0.1	22.9	7.0	225	2.58	31.5	3.5	2.3	9	0.1	2.7	0.2	36	0.09	0.054	22
1240040	Soil	0.9	21.3	18.8	51	0.1	23.3	6.6	215	2.64	25.3	2.8	1.6	8	0.2	4.1	0.3	35	0.09	0.045	21
1240041	Soil	0.9	16.7	17.2	28	0.2	11.1	2.9	101	1.70	11.3	2.2	0.2	9	0.2	1.3	0.2	33	0.08	0.057	14
1240042	Soil	1.0	14.0	13.4	39	0.1	14.0	4.3	195	2.06	13.6	2.0	0.5	9	0.1	1.3	0.2	35	0.09	0.045	16
1240043	Soil	0.9	34.7	21.3	52	0.1	32.0	11.2	408	2.78	20.7	13.4	2.4	10	0.2	3.9	0.2	38	0.12	0.041	19
1240044	Soil	1.1	19.1	38.2	31	0.4	13.9	4.1	170	2.20	21.0	2.5	0.3	10	0.2	4.4	0.2	36	0.11	0.056	15
1240045	Soil	1.1	24.8	24.2	51	<0.1	22.4	9.3	358	2.72	16.5	5.7	2.1	9	0.2	4.5	0.2	41	0.09	0.037	17
1240046	Soil	1.0	20.2	21.1	51	0.1	22.5	7.7	268	2.66	15.2	4.8	2.8	10	0.1	3.1	0.2	40	0.10	0.035	16

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Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1239871	Soil	21	0.34	67	0.023	<1	1.11	0.005	0.04	0.2	0.04	1.6	<0.1	<0.05	4	<0.5	<1	<0.2
1240018	Soil	22	0.23	45	0.011	<1	1.37	0.005	0.03	0.1	0.08	1.1	0.1	0.10	5	<0.5	<1	<0.2
1240019	Soil	19	0.30	57	0.022	<1	1.04	0.004	0.03	0.2	0.05	1.7	<0.1	0.06	4	0.6	<1	<0.2
1240020	Soil	14	0.17	42	0.013	<1	0.70	0.004	0.03	0.1	0.05	0.9	<0.1	<0.05	4	<0.5	1	<0.2
1240021	Soil	18	0.29	61	0.013	<1	0.89	0.005	0.03	0.2	0.04	1.7	<0.1	0.05	3	<0.5	<1	<0.2
1240022	Soil	30	0.26	96	0.009	<1	0.74	0.005	0.05	<0.1	0.07	0.9	0.1	0.07	4	<0.5	3	<0.2
1240023	Soil	29	0.39	67	0.014	<1	0.92	0.005	0.05	0.2	0.04	1.2	<0.1	<0.05	5	<0.5	<1	<0.2
1240024	Soil	27	0.39	79	0.017	<1	1.09	0.004	0.05	0.1	0.04	2.4	0.1	<0.05	4	<0.5	1	<0.2
1240025	Soil	23	0.34	100	0.018	<1	1.13	0.004	0.05	0.2	0.03	1.6	0.1	<0.05	4	<0.5	<1	<0.2
1240026	Soil	27	0.40	101	0.018	1	1.27	0.005	0.05	0.2	0.06	2.0	0.1	<0.05	4	<0.5	1	<0.2
1240027	Soil	27	0.38	73	0.016	<1	1.13	0.004	0.04	0.2	0.03	1.5	0.1	<0.05	5	<0.5	<1	<0.2
1240028	Soil	27	0.39	76	0.017	<1	1.23	0.004	0.05	0.1	0.03	2.1	<0.1	<0.05	4	<0.5	1	<0.2
1240029	Soil	30	0.37	71	0.013	<1	1.05	0.004	0.04	0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<1	<0.2
1240030	Soil	25	0.36	84	0.018	<1	1.06	0.004	0.05	0.2	0.04	2.0	<0.1	<0.05	4	<0.5	<1	<0.2
1240031	Soil	25	0.39	74	0.019	<1	1.15	0.004	0.04	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<1	<0.2
1240032	Soil	26	0.41	109	0.021	1	1.30	0.005	0.05	0.2	0.04	2.0	<0.1	<0.05	4	<0.5	<1	<0.2
1240033	Soil	28	0.47	97	0.018	<1	1.23	0.004	0.04	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<1	<0.2
1240034	Soil	26	0.36	85	0.018	<1	1.27	0.004	0.04	0.1	0.05	1.7	0.1	<0.05	5	<0.5	<1	<0.2
1240035	Soil	34	0.47	111	0.018	<1	1.42	0.005	0.05	0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<1	<0.2
1240036	Soil	29	0.37	67	0.013	<1	1.20	0.004	0.05	0.1	0.05	1.2	0.1	<0.05	5	<0.5	<1	<0.2
1240037	Soil	32	0.45	74	0.016	<1	1.36	0.004	0.05	0.1	0.04	1.9	0.1	<0.05	5	<0.5	<1	<0.2
1240038	Soil	32	0.49	83	0.021	<1	1.35	0.004	0.05	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	3	<0.2
1240039	Soil	30	0.44	86	0.019	<1	1.39	0.005	0.05	0.1	0.02	2.2	0.1	<0.05	5	<0.5	<1	<0.2
1240040	Soil	32	0.48	86	0.018	<1	1.42	0.004	0.05	0.1	0.04	2.0	0.2	0.06	5	<0.5	<1	<0.2
1240041	Soil	20	0.24	104	0.005	<1	1.10	0.005	0.03	0.1	0.05	0.3	0.1	0.05	5	<0.5	7	<0.2
1240042	Soil	22	0.33	78	0.016	<1	1.09	0.004	0.05	0.1	0.06	1.1	0.1	0.06	5	<0.5	2	<0.2
1240043	Soil	31	0.53	96	0.021	<1	1.31	0.004	0.05	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<1	<0.2
1240044	Soil	23	0.28	104	0.008	<1	1.12	0.005	0.04	0.1	0.06	0.6	0.1	<0.05	5	<0.5	1	<0.2
1240045	Soil	29	0.45	88	0.022	<1	1.44	0.005	0.05	0.2	0.03	2.5	0.1	<0.05	5	<0.5	2	<0.2
1240046	Soil	27	0.44	87	0.026	<1	1.30	0.005	0.05	0.1	0.03	2.4	0.1	<0.05	5	<0.5	<1	<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
1240047	Soil	0.9	24.3	46.7	51	0.2	23.8	10.5	390	2.91	19.3	3.7	5.4	8	0.2	4.5	0.2	42	0.09	0.035	18
1240048	Soil	1.2	17.6	47.9	60	0.6	18.1	7.7	419	2.47	75.2	5.3	0.8	8	0.5	5.8	0.3	39	0.08	0.050	15
1240049	Soil	1.0	22.6	16.0	54	0.1	26.4	9.1	383	2.56	25.6	4.0	2.6	9	0.1	3.2	0.2	33	0.10	0.038	23
1240050	Soil	0.9	38.7	17.8	61	<0.1	52.1	13.2	391	3.45	29.6	3.7	6.8	7	0.1	5.9	0.2	45	0.06	0.027	24
1240051	Soil	1.0	34.2	17.8	67	<0.1	37.5	12.2	404	3.14	20.6	4.6	8.5	11	0.2	4.5	0.2	35	0.11	0.036	31
1240052	Soil	0.9	29.2	14.6	57	<0.1	30.4	10.7	376	2.72	18.7	3.8	5.5	8	0.1	3.7	0.1	36	0.08	0.028	21
1240053	Soil	0.8	11.5	11.4	44	<0.1	13.4	6.4	329	2.54	8.5	2.0	1.9	8	0.1	0.8	0.2	37	0.10	0.038	16
1240054	Soil	0.9	16.6	13.8	34	0.1	16.1	4.5	117	2.21	12.8	2.6	0.2	7	0.1	2.3	0.1	36	0.06	0.042	15
1240055	Soil	1.2	33.8	24.8	65	0.3	42.6	10.9	346	3.38	56.1	2.6	6.7	10	0.2	4.5	0.3	35	0.07	0.028	26
1240056	Soil	1.1	13.0	14.6	40	0.2	14.9	5.2	148	2.66	11.3	2.0	5.1	7	0.1	0.9	0.2	42	0.06	0.018	18
1240057	Soil	1.4	18.4	13.1	50	0.4	22.7	8.9	213	3.12	14.5	1.7	5.1	10	0.2	0.8	0.2	49	0.09	0.028	17
1240058	Soil	1.3	24.1	39.4	56	0.4	26.1	10.5	346	3.50	28.9	3.2	6.0	10	0.2	2.5	0.3	37	0.06	0.033	27
1241401	Soil	0.7	16.7	11.1	51	<0.1	15.6	6.7	215	2.04	10.7	2.1	3.0	11	0.2	0.7	0.2	34	0.10	0.047	19
1241402	Soil	0.6	16.1	9.4	47	<0.1	15.2	5.8	210	1.90	10.6	2.6	2.8	11	0.2	0.7	0.1	31	0.13	0.055	16
1241403	Soil	0.9	11.5	12.3	33	<0.1	10.2	4.6	193	1.78	11.9	1.8	0.7	9	0.1	0.8	0.2	34	0.07	0.044	16
1241404	Soil	0.7	17.4	12.6	52	<0.1	17.5	8.5	289	2.04	11.5	0.5	3.1	11	0.2	1.1	0.2	33	0.12	0.059	17
1241405	Soil	0.8	14.3	11.2	41	<0.1	12.2	5.1	160	1.80	11.1	6.5	1.1	10	0.1	0.7	0.2	32	0.09	0.046	17
1241406	Soil	0.9	17.9	11.7	48	<0.1	16.7	6.2	192	2.02	12.2	1.6	3.0	12	0.1	0.9	0.2	34	0.12	0.055	18
1241407	Soil	0.8	13.5	10.5	44	<0.1	13.6	5.0	170	1.86	13.7	0.6	1.7	11	0.2	0.7	0.2	35	0.10	0.043	16
1241408	Soil	0.9	14.7	11.6	53	<0.1	15.9	7.8	298	2.22	19.4	1.5	2.1	12	0.2	1.0	0.2	36	0.11	0.054	18
1240228	Soil	0.9	12.4	11.8	36	<0.1	12.8	5.1	164	2.31	12.4	0.6	2.6	7	0.1	1.2	0.2	46	0.06	0.024	12
1240229	Soil	1.2	23.7	16.4	50	0.2	14.5	4.7	175	2.17	12.7	2.0	2.5	11	0.2	7.0	0.4	32	0.08	0.061	23
1240230	Soil	1.1	22.8	19.6	72	0.2	22.4	11.1	560	2.78	41.3	10.2	3.8	14	0.5	9.7	0.3	40	0.11	0.074	19
1240231	Soil	1.1	22.2	20.3	59	0.2	19.7	9.1	344	2.70	33.3	6.9	3.2	13	0.2	10.5	0.3	39	0.10	0.067	20
1240232	Soil	1.2	18.2	17.0	40	0.4	13.7	4.6	119	2.01	44.3	6.1	0.4	12	0.1	9.8	0.3	34	0.07	0.093	14
1240233	Soil	1.5	20.4	19.2	63	0.2	18.6	9.3	451	2.96	82.2	6.6	1.6	13	<0.1	5.6	0.4	52	0.08	0.072	16
1240234	Soil	1.0	18.3	19.5	50	0.3	15.5	6.1	190	2.27	75.4	19.2	2.1	12	0.1	17.6	0.3	38	0.11	0.059	17
1240235	Soil	0.9	16.3	15.7	42	0.2	13.5	5.1	140	2.21	77.2	11.0	1.4	9	<0.1	9.9	0.3	38	0.08	0.052	16
1240236	Soil	0.7	18.2	13.1	44	0.1	14.4	5.7	167	1.99	69.9	7.5	2.6	10	0.1	7.3	0.3	31	0.10	0.051	20
1240237	Soil	0.9	18.3	12.4	51	0.1	15.7	5.9	190	2.26	67.5	4.7	3.2	10	0.1	4.4	0.3	37	0.08	0.045	17

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

Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1240047	Soil	29	0.45	85	0.028	<1	1.44	0.004	0.05	0.1	0.03	3.0	0.1	<0.05	5	<0.5	1	<0.2
1240048	Soil	23	0.35	76	0.018	<1	1.29	0.005	0.04	0.2	0.04	1.5	0.2	<0.05	5	<0.5	<1	<0.2
1240049	Soil	27	0.45	103	0.018	<1	1.19	0.004	0.05	0.1	0.03	2.4	0.1	<0.05	4	<0.5	<1	<0.2
1240050	Soil	82	0.86	74	0.016	<1	1.68	0.004	0.04	0.1	0.02	4.3	0.1	<0.05	6	<0.5	1	<0.2
1240051	Soil	33	0.65	130	0.028	<1	1.29	0.004	0.04	0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<1	<0.2
1240052	Soil	29	0.52	111	0.023	<1	1.27	0.004	0.04	0.1	0.03	3.4	<0.1	<0.05	4	<0.5	1	<0.2
1240053	Soil	21	0.34	52	0.028	<1	1.08	0.004	0.04	0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<1	<0.2
1240054	Soil	26	0.38	61	0.006	<1	1.19	0.004	0.03	<0.1	0.04	0.7	0.1	0.05	5	<0.5	<1	<0.2
1240055	Soil	46	0.64	81	0.012	<1	1.56	0.004	0.04	0.1	0.02	2.6	0.1	<0.05	5	<0.5	3	<0.2
1240056	Soil	21	0.28	64	0.021	<1	1.38	0.004	0.04	0.1	0.03	2.1	0.1	<0.05	6	<0.5	<1	<0.2
1240057	Soil	28	0.42	96	0.031	<1	1.93	0.005	0.04	0.1	0.05	2.6	0.1	<0.05	5	<0.5	<1	<0.2
1240058	Soil	28	0.42	87	0.013	<1	1.56	0.004	0.05	0.1	0.04	2.4	0.1	<0.05	6	<0.5	<1	<0.2
1241401	Soil	22	0.39	91	0.026	1	1.12	0.004	0.04	0.2	0.03	2.1	<0.1	<0.05	4	<0.5	1	<0.2
1241402	Soil	19	0.32	70	0.026	2	0.85	0.004	0.03	0.2	0.02	1.5	<0.1	<0.05	3	<0.5	<1	<0.2
1241403	Soil	18	0.25	51	0.015	<1	0.88	0.005	0.03	0.1	0.02	0.8	<0.1	<0.05	4	<0.5	1	<0.2
1241404	Soil	23	0.35	75	0.028	<1	1.02	0.005	0.05	0.2	0.03	1.9	<0.1	<0.05	3	<0.5	<1	<0.2
1241405	Soil	25	0.33	74	0.021	2	1.04	0.005	0.04	0.2	0.04	1.3	<0.1	<0.05	4	<0.5	<1	<0.2
1241406	Soil	21	0.36	95	0.029	2	1.06	0.005	0.04	0.2	0.04	2.0	<0.1	<0.05	3	<0.5	<1	<0.2
1241407	Soil	22	0.32	75	0.025	1	0.99	0.005	0.04	0.2	0.04	1.6	<0.1	<0.05	4	<0.5	<1	<0.2
1241408	Soil	23	0.36	79	0.024	1	1.13	0.004	0.04	0.2	0.03	1.6	<0.1	<0.05	4	<0.5	<1	<0.2
1240228	Soil	20	0.26	69	0.024	1	1.22	0.005	0.04	0.2	0.05	2.0	0.1	<0.05	5	<0.5	<1	<0.2
1240229	Soil	18	0.24	105	0.015	1	0.99	0.007	0.07	0.2	0.05	1.9	0.2	<0.05	3	<0.5	2	<0.2
1240230	Soil	23	0.37	100	0.024	2	1.22	0.005	0.06	0.2	0.04	3.0	0.2	<0.05	4	<0.5	1	<0.2
1240231	Soil	23	0.35	82	0.019	2	1.23	0.004	0.07	0.2	0.05	2.5	0.2	<0.05	4	<0.5	<1	<0.2
1240232	Soil	19	0.21	168	0.008	2	1.09	0.008	0.05	0.2	0.06	0.8	0.2	0.06	4	<0.5	1	<0.2
1240233	Soil	30	0.42	134	0.021	2	1.67	0.005	0.06	0.2	0.04	2.2	0.3	<0.05	6	0.5	2	<0.2
1240234	Soil	21	0.33	100	0.020	2	1.18	0.005	0.05	0.2	0.04	2.0	0.2	<0.05	4	<0.5	3	<0.2
1240235	Soil	21	0.30	81	0.013	<1	1.16	0.004	0.04	0.2	0.04	1.4	0.2	<0.05	4	<0.5	<1	<0.2
1240236	Soil	19	0.30	75	0.018	<1	1.02	0.004	0.05	0.2	0.02	1.5	0.1	<0.05	3	<0.5	<1	<0.2
1240237	Soil	21	0.34	83	0.021	1	1.09	0.004	0.05	0.2	0.03	2.0	0.1	<0.05	4	<0.5	2	<0.2

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Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

	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
1240238	Soil	0.9	14.5	12.7	46	<0.1	13.6	4.9	164	2.13	20.8	1.2	1.7	10	0.1	1.4	0.2	37	0.09	0.048	18
1240239	Soil	1.0	15.5	12.8	44	<0.1	13.6	4.8	139	2.21	37.8	3.7	1.3	10	0.1	1.7	0.2	42	0.09	0.055	18
1240240	Soil	0.8	16.4	10.7	39	<0.1	12.5	4.3	110	1.99	25.5	3.3	1.3	10	0.1	1.1	0.2	36	0.10	0.045	15
1240241	Soil	0.9	18.0	12.6	43	<0.1	14.1	5.0	125	2.10	20.6	2.1	2.3	10	0.1	1.2	0.2	34	0.09	0.048	19
1240242	Soil	0.7	14.1	11.5	40	<0.1	12.4	5.1	150	1.94	15.7	0.9	2.8	10	<0.1	1.2	0.2	31	0.10	0.043	19
1240243	Soil	0.7	14.4	12.7	43	<0.1	11.9	5.5	185	2.05	15.6	1.8	1.5	10	<0.1	1.1	0.2	33	0.09	0.050	20
1240244	Soil	0.8	12.3	11.8	36	<0.1	10.4	3.8	121	1.83	14.0	<0.5	1.1	9	<0.1	1.1	0.2	32	0.07	0.044	20
1240245	Soil	0.8	25.6	12.1	58	<0.1	20.7	9.8	277	2.11	12.9	1.9	5.2	14	0.2	1.0	0.2	34	0.14	0.064	20
1240246	Soil	0.9	12.8	10.5	38	<0.1	11.0	3.9	112	1.69	10.7	3.4	1.6	9	<0.1	0.7	0.2	31	0.08	0.035	19
1240247	Soil	0.7	13.3	10.0	40	<0.1	11.8	4.0	120	1.76	9.9	<0.5	1.3	11	0.1	0.8	0.2	30	0.09	0.045	18
1240248	Soil	0.8	17.1	11.8	48	<0.1	14.4	6.4	205	1.98	11.8	<0.5	3.3	12	0.2	0.7	0.2	33	0.11	0.049	20
1240249	Soil	0.8	14.1	11.4	40	<0.1	12.0	4.7	150	1.92	11.9	0.6	1.6	11	<0.1	0.7	0.2	32	0.10	0.048	18
1240250	Soil	0.9	13.3	12.7	38	<0.1	12.4	4.2	92	1.97	10.0	4.2	0.9	8	0.1	0.5	0.2	37	0.07	0.037	14

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Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000065.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1240238	Soil	22	0.39	79	0.023	<1	1.16	0.004	0.04	0.1	0.03	1.9	0.1	<0.05	4	<0.5	1	<0.2
1240239	Soil	24	0.36	74	0.019	<1	1.26	0.005	0.04	0.1	0.03	1.6	0.1	<0.05	5	0.7	1	<0.2
1240240	Soil	21	0.34	74	0.019	<1	1.16	0.004	0.04	0.2	0.04	1.6	<0.1	<0.05	4	<0.5	<1	<0.2
1240241	Soil	22	0.36	77	0.019	<1	1.27	0.004	0.04	0.1	0.04	1.9	0.1	<0.05	4	<0.5	1	<0.2
1240242	Soil	20	0.34	66	0.018	<1	1.11	0.004	0.03	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<1	<0.2
1240243	Soil	20	0.34	69	0.013	4	1.13	0.004	0.04	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	1	<0.2
1240244	Soil	19	0.31	59	0.012	<1	1.06	0.004	0.04	0.1	0.04	0.9	0.1	<0.05	4	<0.5	<1	<0.2
1240245	Soil	22	0.41	104	0.032	8	1.17	0.005	0.05	0.2	0.03	2.6	<0.1	<0.05	3	<0.5	1	<0.2
1240246	Soil	18	0.30	61	0.020	<1	0.93	0.003	0.04	0.1	0.03	1.4	<0.1	<0.05	4	<0.5	2	<0.2
1240247	Soil	19	0.32	62	0.017	<1	1.03	0.004	0.04	0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<1	<0.2
1240248	Soil	22	0.35	79	0.025	<1	1.15	0.004	0.05	0.1	0.03	1.9	<0.1	<0.05	4	<0.5	1	<0.2
1240249	Soil	21	0.32	75	0.017	<1	1.12	0.005	0.04	0.2	0.04	1.4	<0.1	<0.05	4	<0.5	1	<0.2
1240250	Soil	24	0.35	85	0.016	2	1.20	0.007	0.03	0.1	0.04	1.2	0.1	<0.05	4	<0.5	1	<0.2

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Project: JO
Report Date: July 11, 2012

QUALITY CONTROL REPORT DAW12000065.1

	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																					
1239849	Soil	0.9	22.2	26.0	60	0.3	19.5	11.6	260	2.87	124.6	6.4	9.9	10	0.3	5.9	0.6	27	0.06	0.043	25
REP 1239848	QC	0.8	19.9	13.7	52	0.1	18.1	7.8	245	2.33	129.2	14.6	6.9	11	0.3	3.8	0.7	30	0.08	0.046	22
1239863	Soil	0.8	13.0	17.0	35	<0.1	11.5	4.4	141	1.82	11.3	0.9	0.8	12	0.1	0.7	0.2	35	0.07	0.042	18
REP 1239862	QC	0.9	24.9	12.1	72	0.2	38.6	15.9	519	2.56	35.8	1.5	4.0	23	0.2	1.0	0.2	34	0.19	0.066	21
1240031	Soil	1.0	18.0	14.9	49	0.1	22.2	6.4	232	2.40	54.0	4.1	2.1	8	0.1	1.6	0.3	34	0.09	0.036	20
REP 1240031	QC	1.0	17.6	14.9	47	0.1	22.1	6.2	225	2.40	53.3	4.7	2.2	8	0.1	1.6	0.3	33	0.09	0.036	20
1240045	Soil	1.1	24.8	24.2	51	<0.1	22.4	9.3	358	2.72	16.5	5.7	2.1	9	0.2	4.5	0.2	41	0.09	0.037	17
REP 1240045	QC	1.0	24.5	23.8	50	<0.1	22.4	9.3	358	2.76	16.7	2.9	2.1	8	0.2	4.4	0.2	42	0.09	0.036	17
1241405	Soil	0.8	14.3	11.2	41	<0.1	12.2	5.1	160	1.80	11.1	6.5	1.1	10	0.1	0.7	0.2	32	0.09	0.046	17
REP 1241405	QC	0.7	14.5	11.4	41	<0.1	12.6	5.0	155	1.80	10.7	8.5	1.1	10	<0.1	0.7	0.2	32	0.09	0.046	17
1240231	Soil	1.1	22.2	20.3	59	0.2	19.7	9.1	344	2.70	33.3	6.9	3.2	13	0.2	10.5	0.3	39	0.10	0.067	20
REP 1240231	QC	1.3	23.2	20.2	60	0.2	20.5	9.3	368	2.84	35.3	7.3	3.1	13	0.2	10.5	0.3	41	0.10	0.070	20
Reference Materials																					
STD DS9	Standard	12.1	99.7	115.9	288	1.7	36.6	7.1	543	2.20	24.8	105.2	6.7	81	2.3	5.9	6.0	38	0.70	0.080	14
STD DS9	Standard	14.6	112.8	127.3	320	1.8	42.8	8.1	601	2.43	25.9	119.9	6.9	74	2.5	5.3	6.3	44	0.73	0.089	14
STD DS9	Standard	14.2	108.6	123.9	327	1.9	43.3	7.1	604	2.42	21.6	120.1	5.7	76	1.9	4.7	5.4	40	0.77	0.076	14
STD DS9	Standard	13.4	109.6	130.6	306	1.8	39.4	7.5	575	2.29	26.3	123.5	7.3	81	2.5	5.9	6.8	41	0.71	0.079	14
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<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
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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: July 11, 2012

QUALITY CONTROL REPORT DAW12000065.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
Pulp Duplicates																		
1239849	Soil	17	0.29	60	0.018	<1	0.92	0.005	0.04	0.2	0.04	1.7	0.3	<0.05	3	<0.5	5	<0.2
REP 1239848	QC	18	0.29	74	0.023	1	0.97	0.005	0.04	0.2	0.03	1.9	0.2	<0.05	3	<0.5	2	<0.2
1239863	Soil	19	0.31	78	0.020	<1	0.94	0.006	0.04	0.2	0.04	1.1	<0.1	<0.05	4	<0.5	8	<0.2
REP 1239862	QC	22	0.41	138	0.026	1	1.18	0.006	0.04	0.2	0.02	2.6	<0.1	<0.05	3	<0.5	<1	<0.2
1240031	Soil	25	0.39	74	0.019	<1	1.15	0.004	0.04	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<1	<0.2
REP 1240031	QC	25	0.38	74	0.019	<1	1.15	0.004	0.04	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<1	<0.2
1240045	Soil	29	0.45	88	0.022	<1	1.44	0.005	0.05	0.2	0.03	2.5	0.1	<0.05	5	<0.5	2	<0.2
REP 1240045	QC	29	0.45	87	0.023	<1	1.43	0.004	0.05	0.1	0.03	2.5	0.1	<0.05	5	<0.5	2	<0.2
1241405	Soil	25	0.33	74	0.021	2	1.04	0.005	0.04	0.2	0.04	1.3	<0.1	<0.05	4	<0.5	<1	<0.2
REP 1241405	QC	25	0.33	75	0.021	<1	1.02	0.004	0.04	0.1	0.03	1.3	0.1	<0.05	3	<0.5	<1	<0.2
1240231	Soil	23	0.35	82	0.019	2	1.23	0.004	0.07	0.2	0.05	2.5	0.2	<0.05	4	<0.5	<1	<0.2
REP 1240231	QC	24	0.36	87	0.019	1	1.34	0.004	0.07	0.2	0.04	2.8	0.2	<0.05	4	<0.5	<1	<0.2
Reference Materials																		
STD DS9	Standard	115	0.60	299	0.122	2	0.94	0.100	0.36	3.1	0.19	3.1	5.4	0.20	5	5.4	6	4.5
STD DS9	Standard	130	0.65	305	0.119	3	1.01	0.104	0.40	3.0	0.21	3.2	5.8	0.18	5	5.7	7	5.2
STD DS9	Standard	130	0.65	295	0.128	2	0.99	0.097	0.36	3.0	0.21	2.8	5.6	0.19	5	5.4	6	5.1
STD DS9	Standard	118	0.62	293	0.106	2	1.00	0.103	0.38	2.9	0.23	3.0	5.5	0.13	5	5.3	7	5.1
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2		5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<1	<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	<1	<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	<1	<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	<1	<0.2

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Appendix V: Silt 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-Dawson City
Received: June 28, 2012
Report Date: July 11, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS DAW12000060.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO Silts 1
P.O. Number
Number of Samples: 43

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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	43	Dry at 60C			DAW
SS80	43	Dry at 60C sieve 100g to -80 mesh			DAW
RJSV	43	Saving all or part of Soil Reject			DAW
1DX2	43	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.

Acme Analytical Laboratories (Vancouver) Ltd.
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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000060.1

	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
1237560	Silt	0.8	23.6	18.4	57	0.6	30.5	10.2	327	2.34	113.2	12.6	1.7	21	0.3	1.4	0.6	28	0.22	0.072	36
1237561	Silt	0.7	10.7	8.2	34	<0.1	10.9	3.5	94	1.42	14.8	2.6	0.6	8	<0.1	0.4	0.2	28	0.11	0.053	13
1241053	Silt	1.7	41.0	43.8	102	0.4	44.3	18.9	423	4.17	271.2	62.7	12.0	29	<0.1	1.4	0.5	54	0.31	0.089	31
1241054	Silt	1.0	11.5	13.1	52	0.2	16.2	13.6	574	2.31	31.3	3.3	1.6	14	<0.1	1.2	0.2	37	0.15	0.051	20
1241055	Silt	1.5	41.2	9.4	101	0.3	63.9	32.2	827	3.09	505.8	71.9	9.3	21	0.3	1.6	1.5	32	0.17	0.050	23
1241056	Silt	1.4	37.3	10.2	95	0.2	60.9	28.8	779	2.99	504.5	98.8	9.3	20	0.4	1.7	1.4	32	0.17	0.055	24
1241057	Silt	1.5	38.3	9.9	100	0.2	62.3	31.3	788	3.01	488.6	47.0	8.8	21	0.4	1.6	1.6	32	0.17	0.053	22
1241058	Silt	0.7	16.5	20.2	62	0.3	20.5	13.3	504	2.41	69.7	12.5	1.9	16	<0.1	2.1	0.4	32	0.17	0.055	21
1241059	Silt	1.2	34.9	10.0	86	0.3	55.0	24.4	686	2.93	452.2	87.4	9.6	20	0.3	1.6	1.8	32	0.18	0.052	24
1241060	Silt	1.1	30.3	9.3	77	0.3	48.3	19.4	523	2.60	352.3	117.2	8.5	18	0.1	1.4	1.1	29	0.16	0.051	23
1241061	Silt	1.1	34.5	9.8	86	0.2	56.4	25.1	643	2.83	406.1	53.8	8.4	20	0.4	1.5	1.2	32	0.18	0.052	24
1241062	Silt	0.6	23.1	18.0	76	0.1	20.8	9.2	331	2.29	126.9	27.3	6.6	36	0.3	1.6	1.6	32	0.39	0.063	24
1205884	Silt	0.9	29.4	10.2	73	0.2	42.8	19.5	570	2.76	357.9	44.0	9.5	20	0.3	1.6	1.2	30	0.19	0.050	24
1205885	Silt	1.0	29.4	12.4	74	0.2	44.0	19.7	612	2.83	358.7	73.6	9.8	19	0.3	1.6	1.3	27	0.17	0.044	23
1205886	Silt	1.0	30.8	18.6	88	0.2	53.4	21.0	682	2.99	357.9	87.1	9.8	23	0.5	1.8	1.6	30	0.21	0.051	27
1205887	Silt	1.0	30.6	17.5	76	0.3	42.5	18.8	584	2.90	367.8	207.1	10.4	19	0.4	1.8	1.4	28	0.19	0.045	25
1205888	Silt	1.0	28.0	12.9	79	0.2	45.2	20.0	566	2.67	323.9	91.9	9.0	21	0.3	1.6	1.2	29	0.20	0.050	24
1205889	Silt	1.1	26.4	16.5	79	0.2	39.5	16.9	598	2.64	266.6	41.8	8.2	24	0.3	1.6	1.0	30	0.29	0.060	24
1205890	Silt	1.2	28.1	14.6	95	0.2	45.2	18.1	623	2.97	244.8	22.9	9.1	30	0.3	1.5	1.0	32	0.36	0.069	26
1205891	Silt	1.0	26.9	19.3	87	0.2	41.3	17.0	623	2.79	264.5	12.6	9.2	26	0.4	1.7	2.2	29	0.30	0.071	26
1205892	Silt	1.0	27.3	12.6	79	0.2	44.3	17.1	590	2.63	248.9	25.9	8.3	26	0.5	1.5	1.1	29	0.29	0.061	23
1205893	Silt	0.8	25.2	11.3	74	0.2	36.1	15.6	506	2.48	243.4	44.8	8.3	23	0.3	1.4	1.0	26	0.26	0.052	23
1205894	Silt	0.8	25.7	12.0	70	0.1	36.4	15.0	470	2.44	263.0	102.0	8.5	21	0.3	1.5	1.1	28	0.23	0.055	22
1205895	Silt	1.0	27.8	14.2	80	0.2	43.0	17.8	612	2.71	272.1	84.1	8.5	24	0.4	1.5	1.3	30	0.27	0.056	22
1205896	Silt	0.8	27.0	13.7	74	0.2	39.8	16.1	528	2.50	244.1	23.5	8.1	23	0.4	1.7	1.0	28	0.27	0.055	22
1205897	Silt	0.9	25.3	14.4	72	0.1	39.9	15.7	558	2.43	244.3	19.4	8.0	23	0.4	1.6	1.2	27	0.25	0.058	23
1206651	Silt	1.0	37.2	10.5	67	0.2	30.1	14.6	729	2.90	305.3	70.4	7.2	50	0.3	1.1	2.9	49	0.46	0.077	24
1206652	Silt	0.9	36.4	10.8	73	0.2	28.1	14.7	516	2.91	303.6	56.2	7.0	48	0.3	1.1	4.1	50	0.45	0.082	23
1206653	Silt	0.9	31.6	9.8	64	0.3	35.4	12.0	506	2.41	197.3	26.9	5.4	38	0.3	1.0	1.7	39	0.41	0.078	21
1206654	Silt	1.0	25.2	8.9	61	0.1	25.7	11.7	436	2.51	209.5	30.8	3.3	30	0.2	0.7	1.8	46	0.33	0.069	18

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Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000060.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1237560	Silt	25	0.38	130	0.013	2	0.89	0.005	0.05	0.3	0.08	1.8	0.2	0.06	3	0.7	1	<0.2
1237561	Silt	17	0.28	44	0.017	2	0.91	0.004	0.03	0.1	0.04	0.8	0.1	<0.05	3	<0.5	<1	<0.2
1241053	Silt	134	1.02	130	0.093	<1	1.83	0.017	0.16	0.2	0.02	5.8	0.2	<0.05	5	<0.5	<1	<0.2
1241054	Silt	24	0.42	114	0.016	1	1.20	0.006	0.04	0.2	0.03	1.7	0.1	<0.05	4	<0.5	<1	<0.2
1241055	Silt	27	0.48	108	0.052	1	1.17	0.012	0.17	11.2	<0.01	2.9	0.4	<0.05	4	<0.5	<1	<0.2
1241056	Silt	26	0.50	107	0.049	2	1.21	0.012	0.16	13.3	<0.01	2.9	0.3	<0.05	4	<0.5	2	<0.2
1241057	Silt	26	0.49	109	0.050	1	1.21	0.013	0.16	9.5	<0.01	2.9	0.3	<0.05	3	0.7	<1	<0.2
1241058	Silt	24	0.39	152	0.017	1	1.28	0.006	0.04	0.8	0.03	2.0	0.1	<0.05	3	<0.5	1	<0.2
1241059	Silt	25	0.47	106	0.047	<1	1.11	0.011	0.15	16.7	<0.01	2.7	0.3	<0.05	4	<0.5	<1	<0.2
1241060	Silt	22	0.44	99	0.043	1	1.01	0.011	0.12	10.1	0.01	2.5	0.2	<0.05	3	<0.5	<1	<0.2
1241061	Silt	26	0.49	111	0.047	1	1.19	0.012	0.15	6.5	0.02	2.8	0.3	<0.05	4	<0.5	<1	<0.2
1241062	Silt	29	0.52	108	0.055	1	1.10	0.028	0.09	7.1	0.02	2.4	0.1	<0.05	3	<0.5	<1	<0.2
1205884	Silt	24	0.46	101	0.045	<1	1.04	0.012	0.13	8.1	<0.01	2.4	0.2	<0.05	3	<0.5	<1	<0.2
1205885	Silt	23	0.49	104	0.044	<1	1.07	0.013	0.14	10.3	<0.01	2.4	0.2	<0.05	3	<0.5	<1	<0.2
1205886	Silt	26	0.50	118	0.048	1	1.19	0.014	0.14	9.9	<0.01	2.7	0.3	<0.05	4	<0.5	4	<0.2
1205887	Silt	23	0.49	99	0.045	<1	1.08	0.014	0.14	9.0	<0.01	2.5	0.2	<0.05	3	<0.5	1	<0.2
1205888	Silt	23	0.48	104	0.046	<1	1.09	0.014	0.13	7.7	<0.01	2.5	0.2	<0.05	3	<0.5	<1	<0.2
1205889	Silt	23	0.49	124	0.040	1	1.05	0.013	0.10	10.1	<0.01	2.4	0.2	<0.05	3	<0.5	<1	<0.2
1205890	Silt	25	0.56	160	0.037	2	1.14	0.012	0.11	6.1	0.04	2.6	0.2	<0.05	3	0.6	1	<0.2
1205891	Silt	23	0.53	145	0.035	1	1.04	0.011	0.10	15.0	<0.01	2.3	0.2	<0.05	3	<0.5	1	<0.2
1205892	Silt	23	0.51	129	0.040	1	1.06	0.014	0.12	4.7	0.01	2.5	0.2	<0.05	3	<0.5	<1	<0.2
1205893	Silt	21	0.49	108	0.036	<1	0.98	0.016	0.10	3.4	<0.01	2.2	0.2	<0.05	3	<0.5	<1	<0.2
1205894	Silt	21	0.46	103	0.037	<1	0.96	0.012	0.10	10.2	<0.01	2.3	0.2	<0.05	3	<0.5	<1	<0.2
1205895	Silt	24	0.51	120	0.039	<1	1.05	0.013	0.12	7.0	0.02	2.4	0.2	<0.05	3	<0.5	<1	<0.2
1205896	Silt	22	0.47	118	0.037	<1	0.97	0.013	0.10	5.7	0.01	2.4	0.2	<0.05	3	<0.5	<1	<0.2
1205897	Silt	21	0.45	114	0.037	<1	0.93	0.013	0.10	9.0	0.02	2.1	0.2	<0.05	3	<0.5	<1	<0.2
1206651	Silt	43	0.68	178	0.079	1	1.53	0.026	0.17	3.9	0.03	4.0	0.3	<0.05	4	0.5	1	<0.2
1206652	Silt	42	0.73	183	0.079	1	1.74	0.025	0.17	2.8	0.03	4.6	0.3	<0.05	5	<0.5	1	<0.2
1206653	Silt	33	0.55	136	0.057	2	1.25	0.022	0.12	2.5	0.03	3.2	0.3	<0.05	3	1.5	1	<0.2
1206654	Silt	36	0.55	137	0.055	2	1.48	0.016	0.09	1.7	0.02	3.0	0.2	<0.05	5	<0.5	<1	<0.2

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Acme Analytical Laboratories (Vancouver) Ltd.
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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: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000060.1

	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
1206655	Silt	1.1	29.6	10.4	65	0.2	26.5	13.2	619	2.83	256.2	61.0	6.1	41	0.2	1.0	2.7	45	0.37	0.068	22
1206656	Silt	1.0	29.7	8.9	64	0.1	26.0	11.1	409	2.44	162.8	25.1	6.2	34	0.2	1.1	1.7	42	0.37	0.076	19
1206657	Silt	0.9	34.3	10.2	67	0.1	27.7	13.4	504	2.78	242.5	43.8	7.1	42	0.4	1.0	3.1	46	0.44	0.078	23
1206658	Silt	0.6	19.3	18.0	61	0.2	21.7	10.5	501	2.10	83.8	17.3	5.3	23	0.3	0.9	0.7	32	0.29	0.052	23
1206659	Silt	0.7	33.6	11.1	71	0.2	27.7	13.0	536	2.79	247.1	55.1	7.7	42	0.4	1.1	3.1	44	0.42	0.070	22
1206660	Silt	0.9	28.9	10.5	65	0.1	24.8	12.7	566	2.64	206.6	33.0	7.2	37	0.3	1.2	2.2	41	0.37	0.066	21
1206661	Silt	0.8	27.0	15.9	76	0.2	26.6	13.0	527	2.81	173.3	66.9	5.8	42	0.5	1.4	2.0	36	0.44	0.066	19
1206662	Silt	0.8	25.4	11.5	67	0.1	25.8	10.9	488	2.81	181.6	93.5	6.4	39	0.3	1.4	2.2	36	0.39	0.065	19
1206663	Silt	0.8	26.3	12.8	71	0.2	26.1	11.5	512	2.78	180.4	53.1	6.3	42	0.4	1.5	2.0	35	0.42	0.066	20
1206664	Silt	0.8	26.3	12.3	67	0.1	26.0	11.0	503	2.87	190.0	94.8	6.6	40	0.3	1.5	2.1	35	0.41	0.064	19
1206665	Silt	0.9	26.3	13.1	69	0.1	26.0	11.2	518	2.83	177.7	33.1	6.3	42	0.4	1.5	2.4	36	0.42	0.065	19
1206666	Silt	0.9	27.1	12.7	71	0.2	26.7	11.5	525	2.84	186.2	49.5	6.5	43	0.4	1.4	2.7	36	0.43	0.065	20
1238438	Silt	1.5	26.6	14.2	66	0.1	24.5	9.6	271	2.81	100.6	3.3	10.6	11	0.2	2.0	0.7	15	0.08	0.037	38

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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: July 11, 2012

CERTIFICATE OF ANALYSIS DAW12000060.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
1206655	Silt	39	0.65	154	0.066	<1	1.49	0.025	0.14	3.5	0.03	3.6	0.3	<0.05	5	<0.5	<1	<0.2
1206656	Silt	30	0.53	167	0.061	1	1.17	0.021	0.11	2.3	0.02	3.3	0.2	<0.05	3	<0.5	<1	<0.2
1206657	Silt	37	0.68	178	0.074	1	1.56	0.026	0.15	3.2	0.02	4.0	0.3	<0.05	4	<0.5	1	<0.2
1206658	Silt	30	0.47	154	0.047	1	1.15	0.014	0.10	1.4	0.02	2.5	0.2	<0.05	3	<0.5	<1	<0.2
1206659	Silt	38	0.66	171	0.076	<1	1.46	0.030	0.16	5.3	0.02	3.7	0.3	<0.05	4	0.8	1	<0.2
1206660	Silt	35	0.61	160	0.067	1	1.34	0.026	0.14	3.9	0.02	3.4	0.2	<0.05	4	<0.5	<1	<0.2
1206661	Silt	34	0.64	131	0.065	1	1.46	0.031	0.15	3.6	0.02	3.6	0.2	0.06	5	0.8	1	<0.2
1206662	Silt	32	0.62	121	0.067	1	1.39	0.029	0.15	4.8	0.02	3.5	0.2	<0.05	5	<0.5	<1	<0.2
1206663	Silt	32	0.63	127	0.068	<1	1.42	0.028	0.16	4.5	0.02	3.4	0.2	<0.05	5	0.7	<1	<0.2
1206664	Silt	33	0.63	121	0.075	1	1.41	0.031	0.15	3.7	0.02	3.4	0.2	<0.05	5	0.6	1	<0.2
1206665	Silt	33	0.62	124	0.071	1	1.42	0.029	0.15	3.5	0.02	3.5	0.2	<0.05	5	0.5	<1	<0.2
1206666	Silt	33	0.67	130	0.069	1	1.44	0.032	0.17	2.8	0.02	3.6	0.3	<0.05	5	0.7	<1	<0.2
1238438	Silt	16	0.42	44	0.013	<1	0.86	0.004	0.04	0.3	<0.01	1.3	<0.1	<0.05	3	<0.5	<1	<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: July 11, 2012

QUALITY CONTROL REPORT DAW12000060.1

	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																					
1241058	Silt	0.7	16.5	20.2	62	0.3	20.5	13.3	504	2.41	69.7	12.5	1.9	16	<0.1	2.1	0.4	32	0.17	0.055	21
REP 1241058	QC	0.9	16.2	19.9	61	0.3	20.9	13.1	491	2.42	69.8	10.9	2.0	16	<0.1	2.1	0.4	33	0.18	0.056	22
1205892	Silt	1.0	27.3	12.6	79	0.2	44.3	17.1	590	2.63	248.9	25.9	8.3	26	0.5	1.5	1.1	29	0.29	0.061	23
REP 1205892	QC	1.0	26.6	12.2	79	0.1	44.7	17.3	595	2.57	243.8	27.0	8.1	26	0.4	1.5	1.0	30	0.28	0.058	24
Reference Materials																					
STD DS9	Standard	13.8	111.1	125.2	298	1.9	42.6	8.2	613	2.40	26.0	115.9	6.9	73	2.5	5.4	6.2	46	0.76	0.082	15
STD DS9	Standard	15.0	120.3	126.9	354	1.9	44.1	7.5	608	2.47	23.2	118.0	6.0	75	2.1	4.9	5.8	40	0.76	0.080	13
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01	0.7	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Client: **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
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Project: JO
Report Date: July 11, 2012

QUALITY CONTROL REPORT DAW12000060.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2
Pulp Duplicates																		
1241058	Silt	24	0.39	152	0.017	1	1.28	0.006	0.04	0.8	0.03	2.0	0.1	<0.05	3	<0.5	1	<0.2
REP 1241058	QC	23	0.41	154	0.018	1	1.32	0.006	0.04	0.6	0.04	2.0	0.1	0.05	4	<0.5	<1	<0.2
1205892	Silt	23	0.51	129	0.040	1	1.06	0.014	0.12	4.7	0.01	2.5	0.2	<0.05	3	<0.5	<1	<0.2
REP 1205892	QC	23	0.51	127	0.041	1	1.03	0.013	0.12	4.4	<0.01	2.5	0.2	<0.05	3	<0.5	<1	<0.2
Reference Materials																		
STD DS9	Standard	128	0.64	316	0.123	2	0.96	0.100	0.37	3.2	0.20	3.0	5.5	0.17	5	5.7	7	5.3
STD DS9	Standard	135	0.66	310	0.124	2	1.01	0.095	0.41	3.1	0.21	2.6	5.8	0.18	5	5.6	6	5.4
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2		5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<1	<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	<1	<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

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: June 29, 2012
Report Date: July 11, 2012
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI12000188.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO RX1
P.O. Number
Number of Samples: 23

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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	23	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B	23	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	23	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

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: July 11, 2012

CERTIFICATE OF ANALYSIS WHI12000188.1

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
1237557	Rock	1.70	5	0.2	3.4	11.4	20	0.1	39.5	12.9	569	1.19	1415	11.9	6.5	6	0.1	1.3	0.6	3	0.04
1237558	Rock	1.49	<2	0.3	16.8	1.8	16	<0.1	6.9	1.9	50	1.47	151.7	2.9	1.9	2	<0.1	1.5	0.1	2	<0.01
1237559	Rock	1.70	4	1.9	83.6	33.6	96	0.4	54.2	26.5	854	4.97	89.7	8.3	7.3	128	0.4	3.8	1.1	110	0.06
1237562	Rock	1.41	<2	0.2	11.7	4.8	37	<0.1	10.4	5.1	997	1.81	20.6	6.4	7.4	7	0.2	6.9	<0.1	3	0.06
1237563	Rock	1.69	<2	0.1	19.6	6.0	17	<0.1	11.4	5.3	233	2.29	102.4	2.5	6.5	23	<0.1	2.1	<0.1	5	<0.01
1237564	Rock	1.61	<2	0.3	30.1	11.9	57	<0.1	21.3	7.9	244	3.05	7.5	1.9	6.4	26	0.1	2.7	<0.1	21	<0.01
1237565	Rock	1.36	3	0.3	21.0	6.3	30	<0.1	31.2	19.8	550	2.36	50.1	6.6	5.9	9	0.2	2.4	0.1	3	<0.01
1206700	Rock	0.57	<2	0.6	2.5	56.3	80	0.4	2.3	1.0	309	0.65	2.8	1.0	0.4	10	0.1	0.6	0.3	<2	0.02
1206094	Rock	0.82	<2	0.1	4.0	3.3	4	<0.1	2.1	0.4	30	0.70	3.8	<0.5	3.2	1	<0.1	2.9	<0.1	<2	<0.01
1206095	Rock	0.91	<2	0.2	5.5	1.2	3	<0.1	1.6	0.3	36	0.59	1.7	1.0	4.6	1	<0.1	3.4	<0.1	<2	<0.01
1206096	Rock	1.74	<2	0.2	13.5	5.1	9	0.1	2.6	0.7	39	1.47	7.2	1.2	5.5	1	<0.1	10.4	0.1	3	<0.01
1206097	Rock	0.96	<2	0.2	11.6	15.3	22	0.3	3.4	1.3	80	2.13	3.9	<0.5	7.6	4	<0.1	3.0	<0.1	3	<0.01
1206098	Rock	0.62	<2	0.2	11.0	4.7	28	0.1	3.0	0.8	29	2.79	162.6	2.4	6.1	1	<0.1	8.1	0.2	<2	<0.01
1206099	Rock	1.52	<2	0.8	9.0	4.9	33	<0.1	17.5	7.0	255	2.31	7.5	1.7	6.7	6	<0.1	1.2	<0.1	6	0.01
1206100	Rock	0.60	7	0.8	18.2	2.9	5	<0.1	1.7	0.6	17	1.13	526.0	9.0	16.4	2	0.2	5.8	0.3	<2	<0.01
1240460	Rock	0.78	<2	0.1	2.5	1.0	2	<0.1	1.4	0.3	29	0.39	16.5	0.9	0.5	<1	<0.1	0.7	<0.1	<2	<0.01
1240461	Rock	1.08	<2	0.2	2.5	7.8	15	<0.1	4.7	1.1	211	0.88	4.5	1.7	2.6	2	0.2	1.2	<0.1	<2	0.01
1240462	Rock	1.02	<2	0.2	6.3	5.5	16	<0.1	4.7	1.9	83	1.21	2.3	0.8	10.2	6	<0.1	<0.1	<0.1	3	0.03
1240463	Rock	0.93	<2	0.1	1.4	5.3	2	<0.1	2.4	0.6	65	0.39	<0.5	0.9	0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
1240464	Rock	0.82	15	0.1	13.0	11.4	36	0.2	16.4	5.7	440	2.04	1.7	31.7	10.2	9	<0.1	1.0	4.0	10	0.14
1240465	Rock	0.93	248	0.6	15.0	7.0	15	0.2	3.4	1.6	91	1.85	6744	301.0	13.7	19	0.3	7.4	4.1	5	0.06
1240466	Rock	0.56	<2	0.1	6.4	21.0	16	<0.1	20.8	9.1	242	0.82	19.2	0.7	7.3	5	<0.1	0.1	0.2	<2	0.13
1240467	Rock	0.80	<2	<0.1	9.8	66.7	29	0.2	4.0	1.9	86	1.64	10.2	2.0	8.2	8	<0.1	<0.1	0.1	5	<0.01

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

Project: JO
Report Date: July 11, 2012

CERTIFICATE OF ANALYSIS WHI12000188.1

		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	Sn	Te
		Unit	%	ppm	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	1	0.2
1237557	Rock		0.017	15	18	0.16	91	0.001	<20	0.36	0.023	0.05	<0.1	<0.01	<0.1	<0.05	0.9	<0.5	1	<1	<0.2
1237558	Rock		0.015	6	18	<0.01	11	<0.001	<20	0.23	0.001	0.04	0.1	<0.01	<0.1	<0.05	1.1	<0.5	<1	<1	<0.2
1237559	Rock		0.022	22	105	0.11	87	0.001	<20	0.57	<0.001	0.05	0.3	0.15	0.2	0.14	28.0	1.0	2	1	<0.2
1237562	Rock		0.015	13	9	0.05	74	<0.001	<20	0.24	0.018	0.07	<0.1	<0.01	<0.1	<0.05	1.4	<0.5	<1	<1	<0.2
1237563	Rock		0.011	12	11	0.01	35	<0.001	<20	0.27	0.002	0.10	<0.1	<0.01	<0.1	<0.05	1.5	<0.5	<1	<1	<0.2
1237564	Rock		0.021	13	21	0.02	35	0.001	<20	0.42	0.002	0.09	0.1	<0.01	0.2	<0.05	2.7	<0.5	2	<1	<0.2
1237565	Rock		0.013	14	8	<0.01	25	<0.001	<20	0.31	0.002	0.06	0.4	<0.01	0.2	<0.05	2.7	<0.5	<1	<1	<0.2
1206700	Rock		0.019	<1	20	<0.01	6	<0.001	<20	0.06	0.002	<0.01	<0.1	0.01	<0.1	<0.05	0.3	<0.5	<1	<1	<0.2
1206094	Rock		0.010	9	17	<0.01	15	0.001	<20	0.25	<0.001	0.07	<0.1	<0.01	<0.1	<0.05	0.8	<0.5	<1	<1	<0.2
1206095	Rock		0.007	13	20	0.02	48	0.002	<20	0.20	<0.001	0.16	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<1	<0.2
1206096	Rock		0.012	14	15	0.01	26	0.001	<20	0.28	<0.001	0.12	<0.1	0.09	0.1	<0.05	0.7	<0.5	1	<1	<0.2
1206097	Rock		0.018	11	10	0.05	24	<0.001	<20	0.35	0.015	0.10	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<1	<0.2
1206098	Rock		0.017	10	12	<0.01	16	<0.001	<20	0.20	<0.001	0.06	<0.1	0.02	<0.1	<0.05	0.5	<0.5	<1	<1	<0.2
1206099	Rock		0.015	10	15	0.24	32	0.002	<20	0.57	0.024	0.06	<0.1	<0.01	<0.1	<0.05	1.3	<0.5	2	<1	<0.2
1206100	Rock		0.014	22	2	0.02	104	<0.001	<20	0.43	0.001	0.17	<0.1	0.01	<0.1	<0.05	0.7	<0.5	1	<1	<0.2
1240460	Rock		0.001	<1	27	<0.01	6	<0.001	<20	0.04	<0.001	0.01	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<1	<0.2
1240461	Rock		0.007	5	23	0.04	34	<0.001	<20	0.19	0.006	0.03	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<1	<0.2
1240462	Rock		0.021	15	12	0.19	37	<0.001	<20	0.54	0.017	0.13	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	2	<1	<0.2
1240463	Rock		<0.001	<1	34	<0.01	3	<0.001	<20	0.01	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<1	<0.2
1240464	Rock		0.018	19	21	0.49	32	0.002	<20	0.98	0.035	0.09	<0.1	<0.01	<0.1	<0.05	1.5	<0.5	4	<1	<0.2
1240465	Rock		0.020	17	11	0.19	472	0.004	<20	0.64	0.033	0.29	0.1	<0.01	0.2	0.22	1.1	0.9	2	1	<0.2
1240466	Rock		0.012	13	20	0.04	10	<0.001	<20	0.18	0.032	0.01	<0.1	<0.01	<0.1	<0.05	0.8	<0.5	<1	<1	<0.2
1240467	Rock		0.012	17	16	0.28	26	0.001	<20	0.66	0.027	0.09	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	2	<1	<0.2

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Project: JO
Report Date: July 11, 2012

QUALITY CONTROL REPORT WHI12000188.1

	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																					
REP 1206100	QC		8																		
Core Reject Duplicates																					
1206100	Rock	0.60	7	0.8	18.2	2.9	5	<0.1	1.7	0.6	17	1.13	526.0	9.0	16.4	2	0.2	5.8	0.3	<2	<0.01
DUP 1206100	QC		5	0.8	18.1	3.2	5	<0.1	1.7	0.7	20	1.14	527.3	8.6	16.4	2	0.2	6.1	0.3	<2	<0.01
Reference Materials																					
STD DS9	Standard			11.1	109.0	129.6	306	2.8	40.7	7.7	570	2.35	29.2	103.6	6.2	75	2.5	5.7	6.8	39	0.68
STD OREAS45CA	Standard			1.0	509.6	18.7	60	0.3	249.9	92.2	922	13.92	3.8	39.8	6.7	16	0.1	0.1	0.2	224	0.43
STD OXC88	Standard		198																		
STD OXG99	Standard		946																		
STD OXC88 Expected			203																		
STD OXG99 Expected			932																		
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
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
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
Prep Wash																					
G1-WHI	Prep Blank		<2	<0.1	2.8	2.9	45	<0.1	2.3	3.8	585	1.99	<0.5	3.4	5.3	72	<0.1	<0.1	<0.1	36	0.49
G1-WHI	Prep Blank		<2	<0.1	2.4	3.1	44	<0.1	2.6	3.9	571	2.02	<0.5	1.5	5.3	73	<0.1	<0.1	<0.1	38	0.52

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QUALITY CONTROL REPORT WHI12000188.1

		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	Sn	Te
		Unit	%	ppm	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	1	0.2
Pulp Duplicates																					
REP 1206100	QC																				
Core Reject Duplicates																					
1206100	Rock		0.014	22	2	0.02	104	<0.001	<20	0.43	0.001	0.17	<0.1	0.01	<0.1	<0.05	0.7	<0.5	1	<1	<0.2
DUP 1206100	QC		0.014	22	2	0.02	115	<0.001	<20	0.48	0.004	0.18	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<1	<0.2
Reference Materials																					
STD DS9	Standard		0.092	12	121	0.62	346	0.105	<20	0.93	0.078	0.40	2.5	0.20	5.6	0.17	2.4	6.1	5	7	5.3
STD OREAS45CA	Standard		0.040	16	709	0.14	166	0.129	<20	3.56	0.006	0.07	<0.1	0.03	<0.1	<0.05	45.0	0.7	19	2	<0.2
STD OXC88	Standard																				
STD OXG99	Standard																				
STD OXC88 Expected																					
STD OXG99 Expected																					
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		
STD DS9 Expected			0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	5.3	0.1615	2.5	5.2	4.59		5.02
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	<1	<0.2
Prep Wash																					
G1-WHI	Prep Blank		0.084	12	8	0.49	155	0.130	<20	0.93	0.095	0.47	<0.1	<0.01	0.3	<0.05	2.4	<0.5	5	<1	<0.2
G1-WHI	Prep Blank		0.083	13	8	0.49	153	0.129	<20	0.94	0.105	0.48	<0.1	<0.01	0.3	<0.05	2.4	<0.5	5	<1	<0.2

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