

ASSESSMENT REPORT

2014 PROSPECTING PROGRAM

on the

Josephine Property

Dawson Mining District, Yukon Territory

for

Nevada Zinc Corp.

Claims filed for: 'JO' 46-52 (YD93546 – YD93552) and 'JO' 60-67 (YD93560 – YD93567)

NTS Mapsheets: 115P14, 115P15

UTM Coordinates: E400000, N7087000 (NAD83, Zone8)

Owner: Goldspike Exploration Inc. (Nevada Zinc Corp.)

Author: D. Ferraro, HBSc.

Dates worked performed: September 5th, 2014

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1.0 SUMMARY

A 1 day prospecting program was conducted on the Josephine Property on September 5th, 2014. 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.

The purpose of the prospecting was to find the source of an anomalous Au-As-Sb soil trend approximately 1000x300m in size with an EW orientation. A total of 9 rock samples were taken on the property. Prospecting was successful in finding the likely source of the soil anomalies. Although all samples were float, they returned a similar geochemical signature. Rock samples were of aplite to diorite dike material and bore abundant arsenopyrite mineralization, with blebs up to 1cm in diameter.

Samples were collected in a creek draw which is interpreted and mapped to be part of the Josephine Creek Fault. The soil trend occurs along this fault. A structural analysis of mineralization in the Clear Creek area by Stephens et al. (2000) determined favourable sites for gold mineralization are east-west fracture zones connected to ~165 degree oriented structures. This model is a potential match for the mineralization observed in the targeted area.

A Candig trenching program is recommended over the trend as well as further soil sampling to define its boundaries. Ground magnetometer and resistivity surveys may be beneficial in outlining intrusive material and hydrothermal activity, respectively.

2.0 INTRODUCTION

This assessment report has been prepared at the request of Mr. Bruce Durham, president of Nevada Zinc Corp. (formerly Goldspike Exploration Inc.) of Toronto, Ontario. The report describes the 2014 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, Thunder Bay, 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.



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 Dawson 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	21/09/2018
JO	2	YD93502	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	3	YD93503	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	4	YD93504	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	5	YD93505	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	6	YD93506	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	7	YD93507	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	8	YD93508	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	9	YD93509	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	10	YD93510	Goldspike Exploration Inc. (100%)	Active	21/09/2018
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	21/09/2018
JO	41	YD93541	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	42	YD93542	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	43	YD93543	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	44	YD93544	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	45	YD93545	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	46	YD93546	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	47	YD93547	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	48	YD93548	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	49	YD93549	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	50	YD93550	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	51	YD93551	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	52	YD93552	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	53	YD93553	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	54	YD93554	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	55	YD93555	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	56	YD93556	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	57	YD93557	Goldspike Exploration Inc. (100%)	Active	21/09/2018
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JO	59	YD93559	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	60	YD93560	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	61	YD93561	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	62	YD93562	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	63	YD93563	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	64	YD93564	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	65	YD93565	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	66	YD93566	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	67	YD93567	Goldspike Exploration Inc. (100%)	Active	21/09/2019
JO	68	YD93568	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	69	YD93569	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	70	YD93570	Goldspike Exploration Inc. (100%)	Active	21/09/2018

JO	71	YD93571	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	72	YD93572	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	73	YD93573	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	74	YD93574	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	75	YD93575	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	76	YD93576	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	77	YD93577	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	78	YD93578	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	79	YD93579	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	80	YD93580	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	81	YD93581	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	82	YD93582	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	83	YD93583	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	84	YD93584	Goldspike Exploration Inc. (100%)	Active	21/09/2018
JO	85	YD93585	Goldspike Exploration Inc. (100%)	Active	21/09/2018
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

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 2011-2014 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.

Josephine 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/limestone
- shale/chert
- shale/chert/siltstone
- shale/claystone/siltstone/sandstone/coal
- shale/quartzite
- siltstone/argillite/volcanic
- siltstone/sandstone/conglo
- slate
- syenite/granite/monzogranite/clinopyroxenite

..... Faults

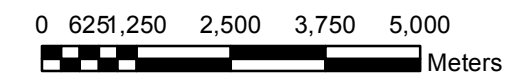
□ Josephine Property claims

Regional stream geochemistry

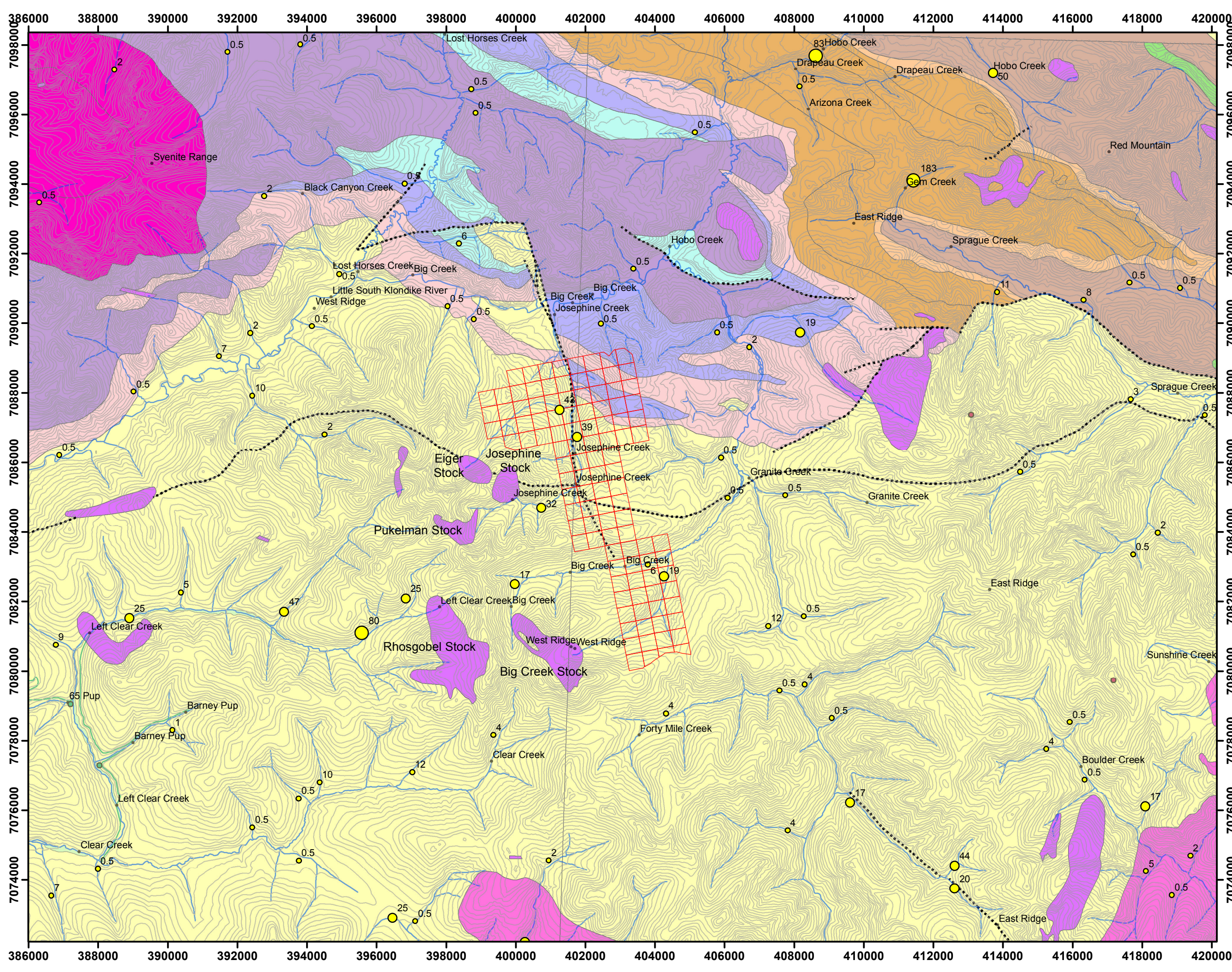
Au (ppb)

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

1:100,000



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 prospecting program was conducted on the Josephine Property on September 5th, 2014. One geologist accessed the property by truck and prospected a targeted area (follow-up of previous results), collecting 9 rock samples.

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 I.

8.2 Sample Preparation, Analysis, and QA/QC

Samples were sent to Acme Lab's Whitehorse, YT facility. Rock samples are crushed, split to 250 g, pulverized, and then sieved to -200 mesh. A 0.5g split is leached in hot modified Aqua Regia then analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques. Multi-elemental analysis of 36 elements was made. A 30g split of each sample was also analysed by fire assay with an ICP-ES finish.

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 purpose of the 2014 prospecting program was to follow-up on an area of anomalous gold, arsenic, and weak antimony –bearing soil and rock samples taken during 2011 and 2012. Soil samples from these programs assayed up to 100 ppb Au and 1400 ppm As and a rock grab assayed 0.3 g/t Au and 6700 ppm As (Figure 4). The soil samples follow a loose EW or ENE trend. The 2014 prospecting was successful in finding the likely source of the soil anomalies. Although all samples were float, they returned a similar geochemical signature. Most samples were taken in a small group at the top of a creek draw – likely part of the Josephine Creek Fault. Rock samples were of aplite to diorite dike material and bore abundant arsenopyrite mineralization, with blebs up to 1cm in diameter (see Photo 2). The highest sample returned assays of 274 ppb Au and >10000 ppm As, with little other anomalous elements.

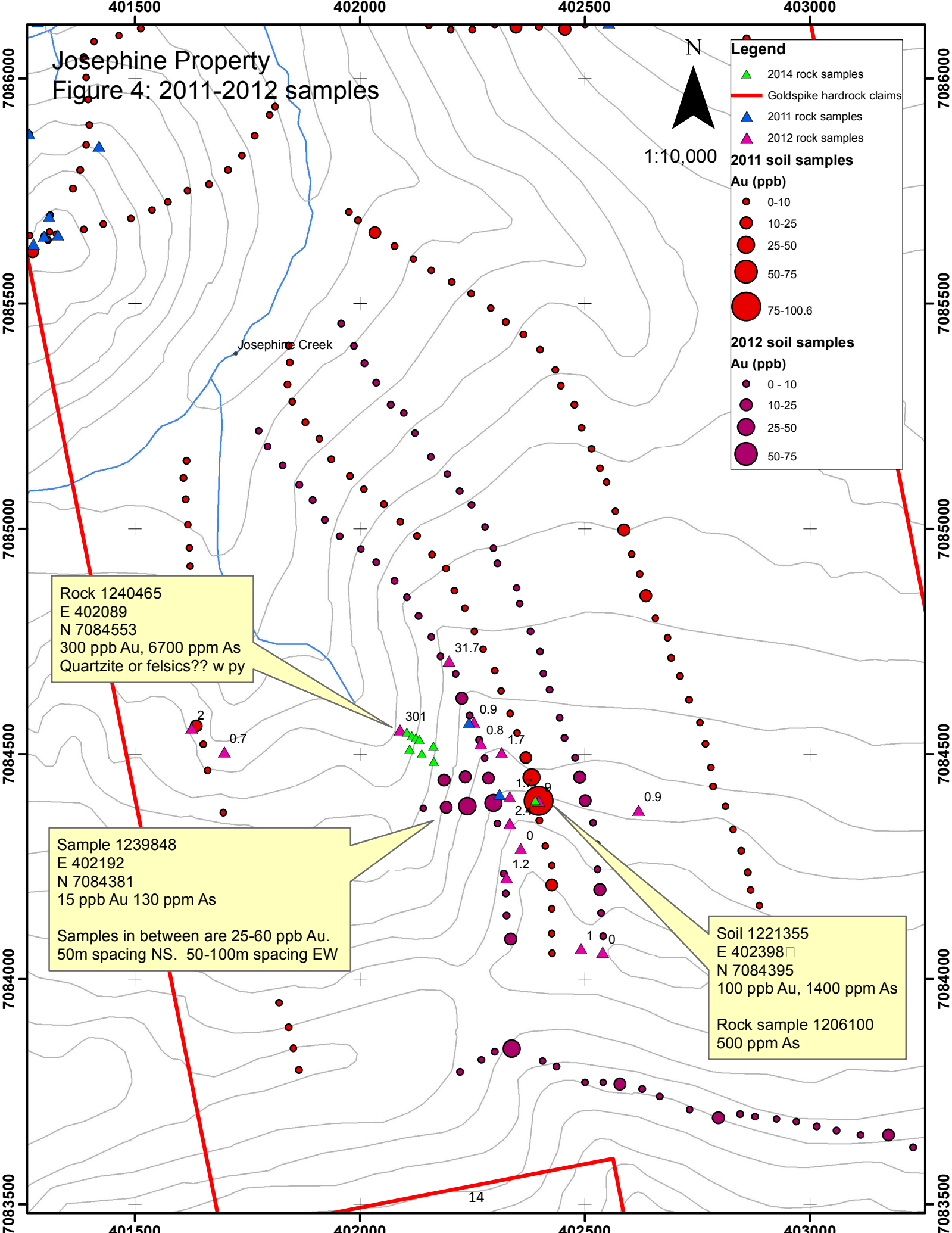
One sample, R1, differed from the rest of the sample set. It was of a breccia supported by angular quartz clasts with a ferrocrete-like matrix. This sample assayed low gold with high arsenic (1512 ppm As) and anomalous antimony (17 ppm Sb). Rock sample locations and results can be found in Figure 5. Assays can be found in Appendix II.



Photo 2: Sample R8 (131 ppb Au, 6882 ppm As) is typical of the sample set, displaying significant arsenopyrite mineralization in an aplite-quartz dike.



Photo 3: Sample R1 (16 ppb Au, 1512 ppm As, 17 ppm Sb) is of a breccia supported by angular quartz clasts with a ferrocement-like matrix.



Josephine Property
Figure 4: 2011-2012 samples

Legend

- ▲ 2014 rock samples
- Goldspike hardrock claims
- ▲ 2011 rock samples
- ▲ 2012 rock samples

2011 soil samples
Au (ppb)

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

2012 soil samples
Au (ppb)

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



Rock 1240465
E 402089
N 7084553
300 ppb Au, 6700 ppm As
Quartzite or felsics?? w py

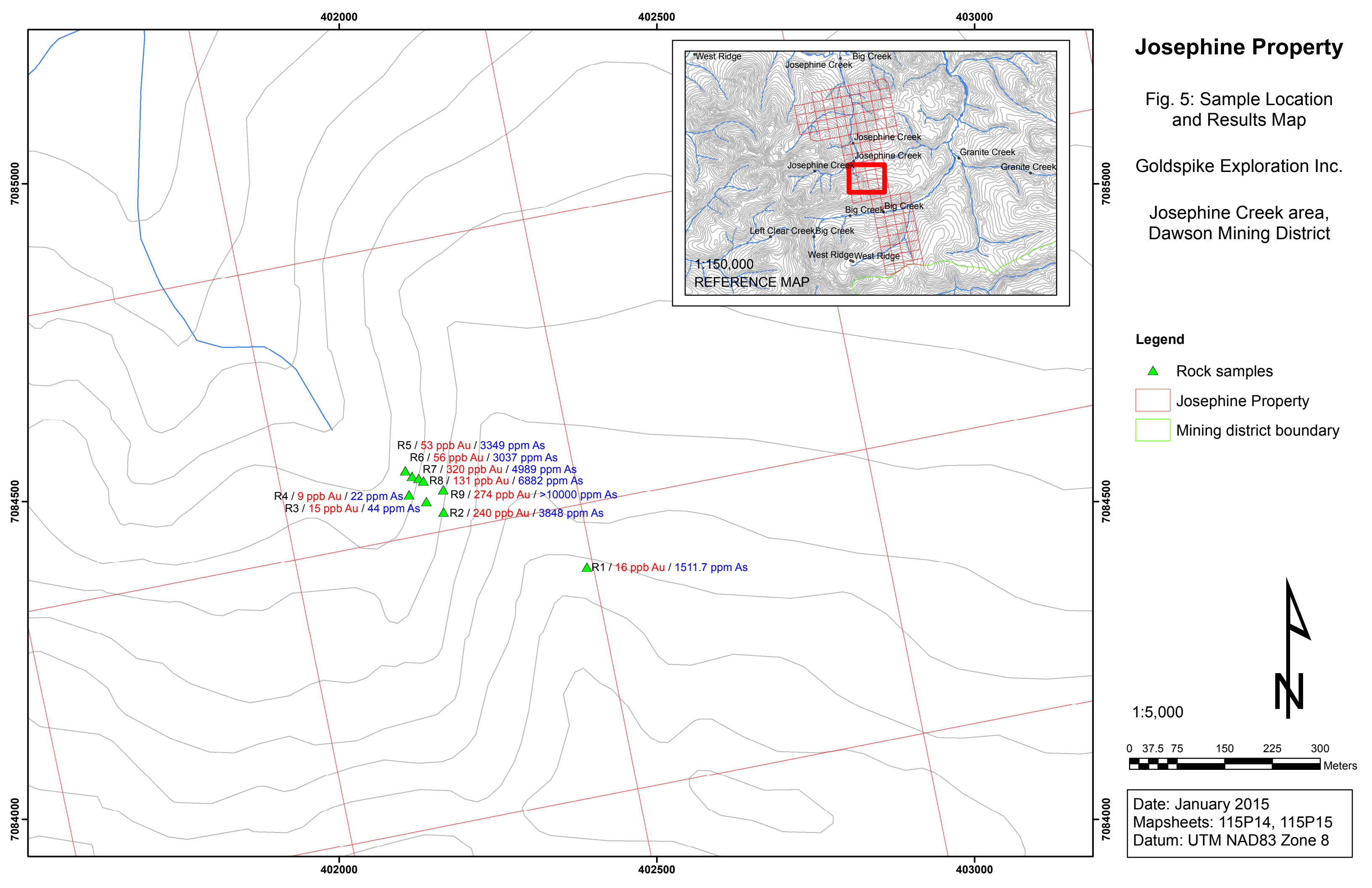
Sample 1239848
E 402192
N 7084381
15 ppb Au 130 ppm As

Samples in between are 25-60 ppb Au.
50m spacing NS. 50-100m spacing EW

Soil 1221355
E 402398
N 7084395
100 ppb Au, 1400 ppm As

Rock sample 1206100
500 ppm As

Josephine Creek



9.0 DISCUSSION

The 2014 prospecting program was successful in determining the source material of an EW-ENE- trending gold-arsenic geochemical anomaly. Although samples were of float material, the geochemistry of the rock samples is very similar to that of the soil samples. Rock samples were primarily of arsenopyrite-mineralized aplite-diorite dike material. The geology of such a formation would be consistent with the dimensions of the soil anomalies. The anomaly appears to have ~1000m length with up to 300m width. However, it is likely some of the samples downhill are due to soil slumping and element mobility. Supporting this fact is the decreasing of values proceeding downhill (north). It is possible the dike is only a few meters wide or perhaps a series of parallel dikes over 50-200m.

In their 2000 paper 'Structural evolution and controls on gold mineralization at Clear Creek, Yukon' Stephens et al. outline a deformational history involving ~165 degree sinistral faults crosscut by secondary EW fracture zones in Hyland Group rocks. Tombstone-era intrusions were then emplaced and EW fractures continued development. They suggest the most favourable sites for gold mineralization are east-west fracture zones connected to ~165 degree oriented structures.

The creek draw extending up to the location of the 2014 rock samples is interpreted as an extension of the Josephine Creek Fault (Figure 3). The orientation of this extension happens to be ~165 degrees. The fault runs directly along the western edge of the EW soil trend. Furthermore, Stephens et al. (2000) observed several aplite dikes running 070 degrees and interpret them to be syn-post Tombstone Plutonic Suite emplacement, along with similarly aged and oriented quartz-tourmaline veins. They also observed gold-bearing quartz veins in Hyland Group rocks running at 105 degrees slightly postdating the aforementioned veins.

10.0 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 local geochemical anomalies on the property make it a desirable exploration target.

The targeted area clearly displays characteristics in line with Stephens et al. (2000) description of a preferred site for gold mineralization in the Clear Creek area (EW fracture zones connected to ~165 degree oriented structures in the vicinity of Tombstone-era intrusions). Whether the anomalies in question are simply related to a small series of arsenopyrite-rich aplite veins or a larger system of auriferous aplite and quartz veining remains to be seen. The dimensions of the anomaly are certainly large enough for a significant find.

Clear Creek Road extends along the bottom of the hill, roughly 3.5km north of the trend. This allows for cheaper mobilization and access. A Candig trenching program over the anomalous zone is recommended. Further soil samples along and on either side of the trend will help define its limits. A ground magnetometer survey may outline intrusive dikes. A ground resistivity survey may aid in identifying significant hydrothermal activity.

REFERENCES

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

STATEMENT OF EXPENDITURES

Costs associated with the Josephine Property
Worked September 5th, 2014

Geologist wage	\$400/day	\$400.00
Travel	\$300/day	\$300.00
truck rental	\$70/day (2 days)	\$140.00
Accommodation and food	\$50/day	\$100.00
Sample shipping		\$50.00
Rock sample assay	\$36x9 samples	\$324.00
Assessment report		\$200.00
TOTAL		\$1,514.00

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 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 consulting 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., Goldstrike Resources Ltd., and Goldspike Exploration Inc.
6. This report was prepared by myself.
7. I have no personal knowledge from the date of this certificate of any material fact or change not reflected in this report.


Daniel Ferraro, HBSc.

Date: Jan 25, 2015.

Appendix I: Rock Sample Descriptions

Rock Sample Descriptions

Josephine Property
UTM NAD83, Zone 8

Sample ID	Easting	Northing	Elevation	Date	Sampler	Rock Source	Description
R1	402390	7084397	1475	5-Sep-14	Clayton Jones	Talus	Ferrocrite breccia/conglomerate; angular beige qtz frags cemented together, clast supported matrix, similar to what is seen at the Summit property, no visible sulphide, highly oxidized.
R2	402164	7084484	1367	5-Sep-14	Clayton Jones	Talus	Beige apalite dyke; pale whitish outer weathered surface, 1 - 2 mm clear vitreous qtz augens, 1 - 10 mm arsenopyrite blebs disseminated throughout, minor calcite (local reaction to HCl).
R3	402137	7084500	1347	5-Sep-14	Clayton Jones	Talus	Porphyritic diorite with fine disseminated arsenopyrite throughout, qtz phenocrysts up to 1 cm.
R4	402110	7084511	1329	5-Sep-14	Clayton Jones	Talus	Porphyritic diorite with fine disseminated arsenopyrite throughout.
R5	402104	7084549	1318	5-Sep-14	Clayton Jones	Talus	Beige to light brown apalite dyke; sericite alt'n, local calcite rich zone or veins (HCl fizz locally), 1 -5mm arsenopyrite disseminated throughout.
R6	402115	7084540	1327	5-Sep-14	Clayton Jones	Talus	same as r5
R7	402125	7084537	1332	5-Sep-14	Clayton Jones	Talus	same as r5
R8	402133	7084533	1336	5-Sep-14	Clayton Jones	Talus	same as r5
R9	402164	7084518	1359	5-Sep-14	Clayton Jones	Talus	same as r5

Appendix II: Rock Sample Assay Certificates



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Goldspike Exploration Inc.
4 King Street West, Suite 1500
Toronto ON M5H 1B6 CANADA

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: September 22, 2014
Report Date: October 03, 2014
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI14000213.1

CLIENT JOB INFORMATION

Project: JO
Shipment ID: JO_ROCKS_2014
P.O. Number
Number of Samples: 9

SAMPLE DISPOSAL

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

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

Invoice To: Goldspike Exploration Inc.
4 King Street West, Suite 1500
Toronto ON M5H 1B6
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	9	Crush, split and pulverize 250 g rock to 200 mesh			WHI
FA330-Au	9	Fire assay fusion Au by ICP-ES	30	Completed	VAN
AQ200	9	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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



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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: Goldspike Exploration Inc.
4 King Street West, Suite 1500
Toronto ON M5H 1B6 CANADA

Project: JO
Report Date: October 03, 2014

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI14000213.1

Method	WGHT	FA330	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
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	
R1	Rock	2.83	16	1.1	64.0	6.5	40	<0.1	10.8	5.6	70	4.75	1511.7	11.8	9.0	2	0.3	17.4	0.2	<2	<0.01
R2	Rock	3.50	240	0.6	27.5	7.3	8	0.3	2.9	5.2	148	1.32	3848.6	213.0	11.4	14	<0.1	4.4	3.6	<2	0.24
R3	Rock	2.15	15	1.4	21.9	11.1	22	<0.1	4.8	5.9	252	2.60	44.3	9.1	14.5	55	0.1	0.9	2.1	36	0.74
R4	Rock	3.23	9	1.3	45.2	11.4	24	<0.1	4.3	6.7	165	3.20	21.9	3.8	14.0	43	0.2	1.0	2.3	33	0.40
R5	Rock	2.27	53	0.8	42.3	5.0	6	0.2	2.7	8.2	241	1.87	3349.7	46.8	14.5	25	<0.1	4.4	3.1	<2	0.38
R6	Rock	2.42	56	0.5	20.4	5.9	6	0.1	3.3	2.1	59	1.13	3036.9	47.1	16.1	10	0.1	4.3	2.2	<2	0.03
R7	Rock	2.21	320	0.8	25.5	5.2	6	0.2	6.3	8.3	206	1.26	4989.3	241.3	15.5	28	0.2	6.0	7.3	<2	0.29
R8	Rock	1.36	131	0.4	9.8	7.5	11	<0.1	2.1	2.0	154	0.99	6882.5	100.6	16.5	19	0.2	9.4	2.3	<2	0.60
R9	Rock	0.85	274	0.7	15.7	7.8	9	0.1	6.9	2.6	126	1.43	>10000	235.2	16.9	23	0.2	11.2	6.3	<2	0.36



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: **Goldspike Exploration Inc.**

4 King Street West, Suite 1500

Toronto ON M5H 1B6 CANADA

Project: JO

Report Date: October 03, 2014

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI14000213.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
R1	Rock	0.045	11	3	<0.01	25	0.001	<20	0.32	0.002	0.06	<0.1	0.02	1.4	<0.1	<0.05	<1	<0.5	<0.2
R2	Rock	0.019	12	2	0.09	154	0.002	<20	0.36	0.056	0.17	0.1	<0.01	0.6	<0.1	0.31	2	0.7	<0.2
R3	Rock	0.067	34	14	0.64	281	0.143	<20	1.36	0.063	0.41	1.3	<0.01	4.9	0.3	0.15	6	<0.5	<0.2
R4	Rock	0.066	34	13	0.63	183	0.093	<20	1.41	0.055	0.33	0.4	<0.01	3.5	0.3	0.42	6	0.7	<0.2
R5	Rock	0.019	15	<1	0.02	210	<0.001	<20	0.29	0.031	0.23	0.2	<0.01	0.4	<0.1	0.71	<1	<0.5	0.9
R6	Rock	0.020	24	<1	0.02	247	0.001	<20	0.33	0.035	0.20	0.1	<0.01	0.4	0.1	0.17	<1	<0.5	<0.2
R7	Rock	0.019	25	1	0.02	253	0.001	<20	0.33	0.037	0.21	0.1	<0.01	0.5	<0.1	0.32	<1	<0.5	1.0
R8	Rock	0.019	24	<1	0.02	169	0.001	<20	0.30	0.043	0.20	0.2	<0.01	0.4	0.1	0.35	<1	1.1	<0.2
R9	Rock	0.018	23	1	0.02	300	0.001	<20	0.33	0.038	0.22	0.1	<0.01	0.4	0.1	0.51	<1	1.8	0.2

QUALITY CONTROL REPORT

WHI14000213.1

Method	WGHT	FA330	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
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	
Reference Materials																					
STD DS10	Standard		13.8	153.7	153.2	349	1.7	71.8	12.5	855	2.70	44.8	56.3	7.7	68	2.6	9.0	13.2	43	1.03	
STD OREAS45EA	Standard		1.5	708.1	15.0	29	0.2	383.5	52.5	404	23.70	10.4	55.4	11.0	4	<0.1	0.3	0.3	292	0.03	
STD OXD108	Standard		419																		
STD OXD108 Expected			414																		
STD DS10 Expected			14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	
STD OREAS45EA Expected			1.39	709	14.3	28.9	0.26	381	52	400	23.51	9.1	53	10.7	3.5	0.02	0.2	0.26	303	0.036	
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	0.5	3.9	2.1	38	<0.1	0.8	3.3	481	1.69	1.5	<0.5	1.9	20	<0.1	0.2	<0.1	22	0.45

QUALITY CONTROL REPORT

WHI14000213.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																			
STD DS10	Standard	0.075	18	51	0.75	412	0.076	<20	1.02	0.067	0.32	3.2	0.30	2.8	5.3	0.29	4	1.8	4.9
STD OREAS45EA	Standard	0.025	7	827	0.09	138	0.093	<20	3.15	0.023	0.05	<0.1	<0.01	74.5	<0.1	<0.05	12	1.2	<0.2
STD OXD108	Standard																		
STD OXD108 Expected																			
STD DS10 Expected		0.073	17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		0.029	6.57	849	0.095	148	0.0875		3.13	0.02	0.053			78	0.072	0.036	11.7	0.6	0.07
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	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1-WHI	Prep Blank	0.033	5	2	0.44	46	0.066	<20	0.89	0.082	0.09	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2