

**REPORT ON THE SPEARHEAD PROPERTY:
2011 PROSPECTING AND SAMPLING PROGRAM.
MAYO MINING DISTRICT
YUKON, CANADA**

Work Period: (18 June 2011 to 09 April 2012)

Property Coords: [NAD83; U9] 393677E / 6973262N
62° 51' 50"N / 131° 40' 46"W

NTS Sheets: 105J13

Claims: **Spearhead East Claim Group**
SH-1 (YE14601) to SH-74 (YE14674), inclusive
Spearhead West Claim Group
SH-75 (YE14675) to SH-112 (YE14712), inclusive

Prepared on behalf of:

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SUMMARY

In June 2011, a five-man team completed five days of prospecting and sampling on the Spearhead property to carry out a preliminary assessment for the presence of Carlin-style gold mineralization. The Spearhead Property is located in the Mayo Mining District, Yukon Territory, Canada, approximately 110 kilometres northeast of the community of Ross River and is comprised of a total of 112 Quartz Mining claims in two adjacent claim groups. There are no roads or lakes in the area; access to the property is best gained utilizing helicopter.

The property is in a glaciated area and is characterized by moderately rugged mountain terrain with outcrops common at the higher elevations. The drainage system is well developed. The claim group covers the potential source for the anomalous regional silt sample sites identified by federal and territorial government surveys. The samples include multiple strong gold, arsenic, antimony, mercury, and thallium anomalies in tributaries of the Macmillan River, including a 99th percentile gold anomaly (>99.9 parts per billion Au) with coincident arsenic at the 95th percentile. This anomalous suite of metals is consistent with the signature for Carlin-style gold mineralization.

The Spearhead Property is situated at the eastern end of the Tintina Gold province within the Selwyn Basin geological province. The property is underlain predominantly by the late Ordovician to early Devonian Road River Group basinal carbonaceous to siliceous sediments. Structural deformation within the Selwyn Basin is dominated by Mesozoic structures reflecting a response to largely northeasterly directed compression as a result of terrane accretion onto the North American plate.

The local area in which the Spearhead property is situated has seen very limited exploration over the past few decades. In the vicinity of the current claim groups, the exploration focus has been on mineralization associated with the Cretaceous granitoid stocks, initially for porphyry type Cu-Mo deposits in the early 1970's and then later for gold in the late 1990's. More regionally, from the late 1960's to the early 1990's, companies explored for sedex Pb-Zn deposits and most recently within the Selwyn Basin to the north of the Spearhead claims, exploration has discovered Carlin-style gold mineralization. Based on previous exploration in the area, the Spearhead property offers good potential for gold mineralization.

The helicopter supported 2011 sampling program resulted in a total of 256 samples being taken. Sampling medium included soil, stream silt and rock. All sample coordinates were determined using a hand-held GPS unit. Samples were logged and then submitted for gold analysis to Acme Analytical Laboratories Limited's Whitehorse facility.

Some soil sampling issues were encountered in the lower lying areas below 1400 metres elevation as a result of frozen ground / permafrost. In general, the best sampling results were obtained from higher elevations along ridge tops with less organic material.

Based on the statistical analysis of the 212 soil samples, a gold value greater than 9.61 parts per billion (ppb) is considered anomalous. Out of this sample set, there were 39 anomalous soil samples with seven of these samples returning values greater than 30 ppb Au and the highest value for gold in soil being 75.3 ppb. Approximately 92% of the anomalous soil samples came from the Spearhead East property. Soil assay correlation reports generated for both the Spearhead East and Spearhead West claim groups show that in Spearhead East, Au values correlate well with Hg, Sb and Tl.

Two of the best gold values from the stream sediment sampling program also came from the Spearhead East property. Both samples were collected from first order stream courses that drain a prominent peak located in the south east portion of that block. A further four stream sediment samples from the Spearhead East property also returned anomalous thallium

No significant gold values were obtained from the rock grab samples during this survey, but anomalous arsenic values were obtained from a 10 metre wide breccia zone.

A follow-up field program on the Spearhead East claim group is recommended for 2012. This program would be comprised of detailed soil and stream sampling, geological mapping and sampling. No further work is recommended for the Spearhead West property.

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1.0 INTRODUCTION

1.1 General

In mid-June 2011, a five day, reconnaissance prospecting, mapping and sampling program was carried out on the Spearhead property located north of both the North Canol Road and South MacMillan River, approximately 110 kilometres northeast of the community of Ross River. The property consists of a total of 112 Quartz Claims in two adjacent claim groups within the Mayo Mining District, Yukon Territory, Canada. In total, 256 samples of soil, silt and rock were collected from the two claim groups for gold analysis. The prospecting team consisted of Edward Dashwood (geologist), Michael Glynn (prospector) and three samplers, Andrew Blampin, Greg Gallaway and Sam Snelling. The program was supervised by Dashwood.

The Spearhead property was staked by the B2 Syndicate within an underexplored part of the Selwyn Basin and approximately 25 km west of the North Canol Road. The claims cover the inferred sources of multiple strong gold, arsenic, antimony, mercury, and thallium anomalies in tributaries of the Macmillan River, including a 99th percentile gold anomaly (>99.9 ppb Au) with coincident arsenic at the 95th percentile. Approximately half of these anomalies come from a new government geochemical survey published in 2009 (McCurdy et al, 2009) that augments the compilation of earlier regional silt geochemical surveys published in 2003. The Au+As+Sb+Hg+Tl signature is indicative of potential Carlin-style gold mineralization.

The claims cover clastic and carbonate rocks of the Ordovician to Lower Devonian Road River Group that are stratigraphically equivalent to the host rocks at ATAC Resources' Osiris gold zone discovery located north of the Spearhead property.

1.2 Units and Currency

Metric units are used throughout this report. Tonnages are shown as tonnes (1,000 kg), linear measurements as metres ("m"), or kilometres ("km") and precious metal values as grams ("g") and/or grams per tonne ("gpt").

Conversions: 31.1034 grams = 1 troy ounce

1 gram per tonne = 0.0292 troy ounces per ton

1.0 metric ton (1,000 kg) = tonne ("t") = 1.10231 short tons ("T")

1.0 metre ("m") = 3.28 feet

1.0 hectare ("ha") = 2.47105 acres

Currency amounts are expressed in Canadian dollars ("CDN\$"), unless indicated otherwise.

2.0 PROPERTY LOCATION AND LOCATION

2.1 Location and Access

The Spearhead property is situated within the Mayo Mining District in east-central Yukon. The claims are situated approximately 110 kilometres northeast of Ross River, a community of approximately 350 inhabitants located at the junction of the Robert Campbell Highway and the North Canol Road (Figure 1).

There is no road access to the property. The closest road, the North Canol Road, is located approximately 35 kilometres to the southeast of the property and on the opposite side of the South MacMillan River from the claim group (Figure 2). Access to the property is best gained by helicopter from either Ross River or from a base camp established next to the North Canol Road.

2.2 Description of Mining Claims

The Spearhead property consists of a total of 112 Quartz Mining Claims in two claim groups (1300 hectares) located in the Mayo Mining District, Yukon Territory, Canada. The claims were staked by the B2 Syndicate and are registered in the name of Terrance King. The property is divided into two claim groups, the East claim group and the West claim group, which are comprised of 74 and 38 claims, respectively. The two claim groups are separated by approximately five kilometres.

The claim data is shown below in Table 1 and the claim groups are shown in Figures 2 and 3.

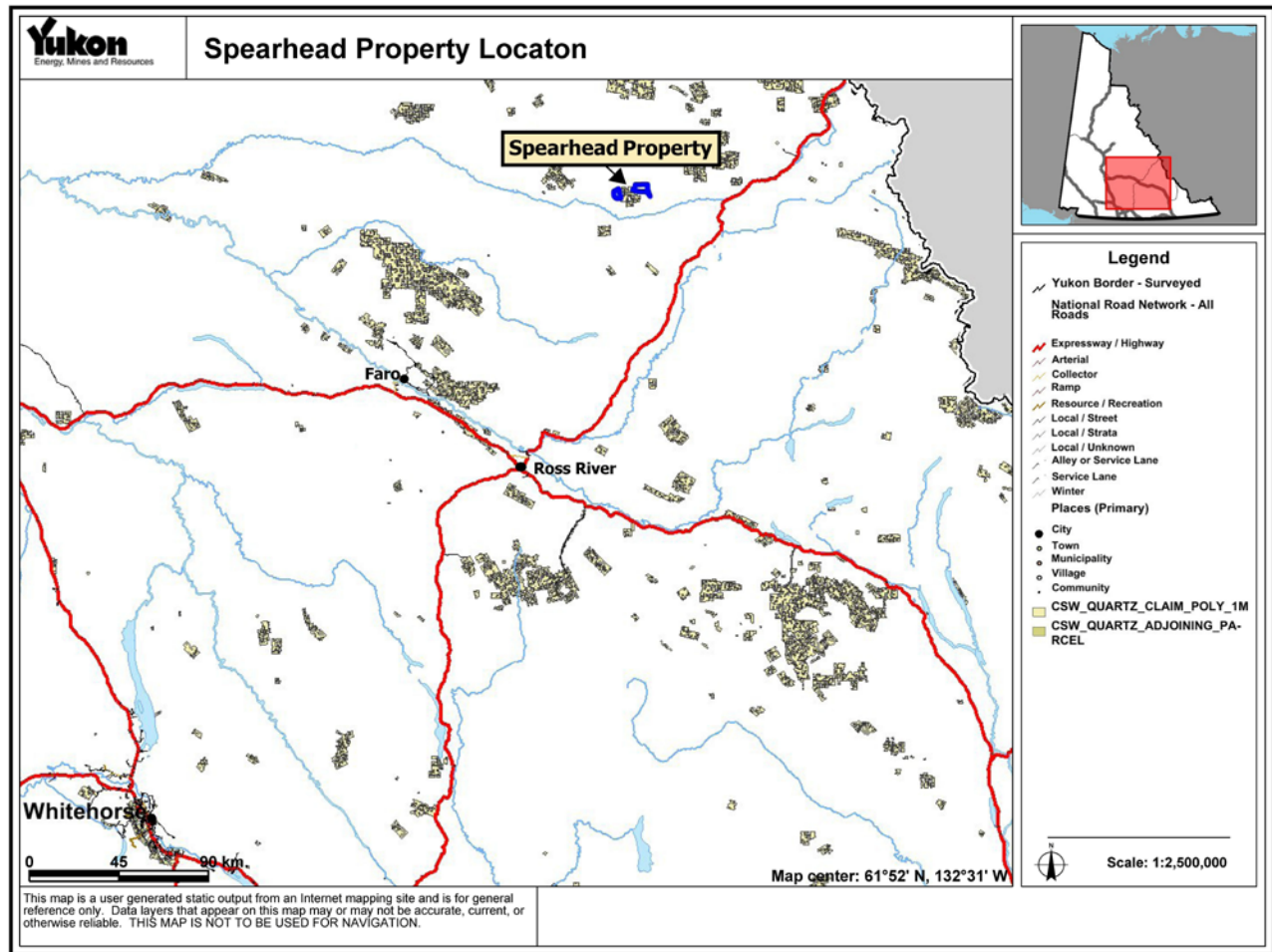


Figure 1: Spearhead property location map.

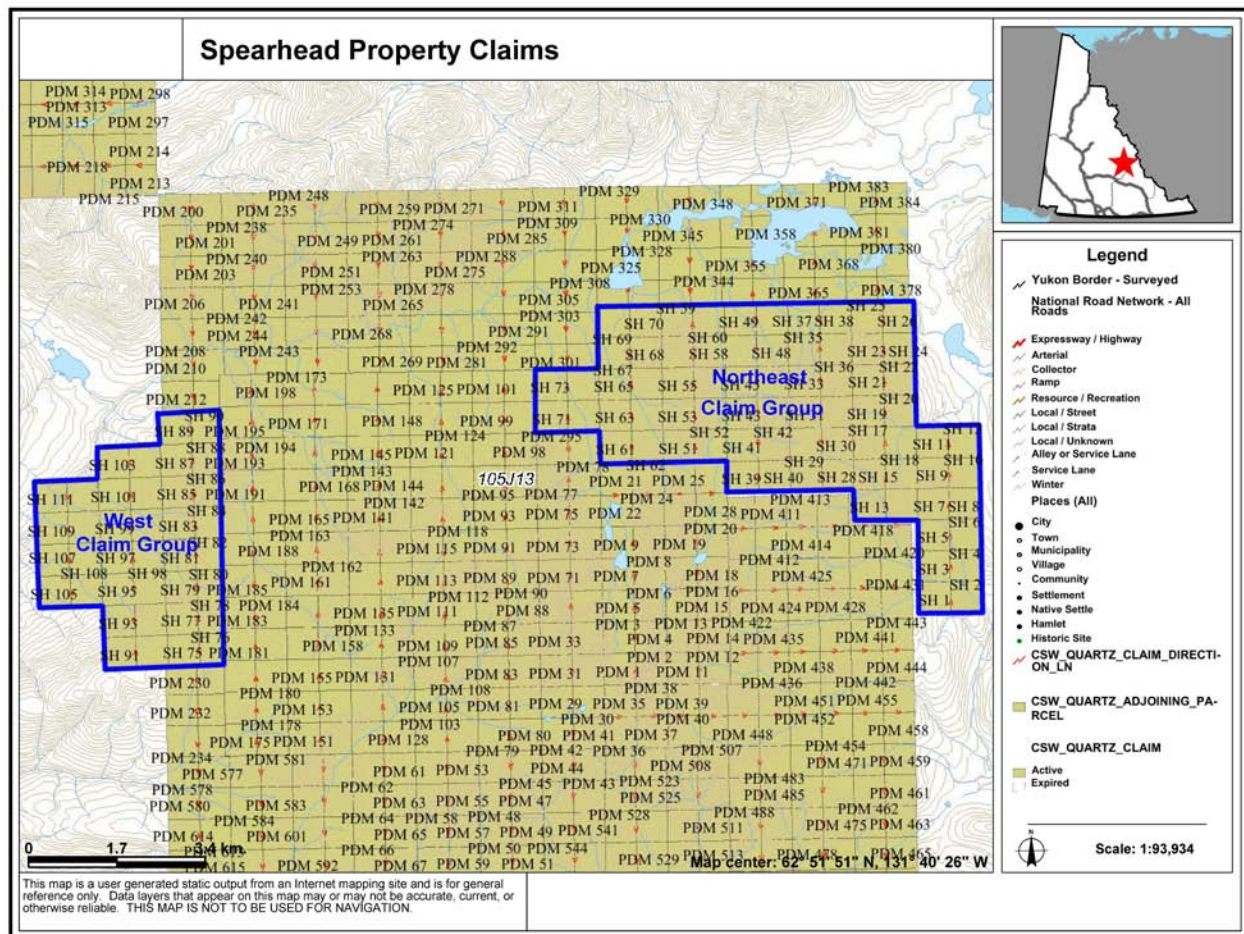
The Spearhead claims are contiguous to the PDM claims which are controlled by Ryan Gold Corp. and/or Shawn Ryan.

Table 1. Spearhead property claim group data.

Claim ID	Grant Number	Reg. Type	Staking Date	Recording Date	Claim Expiry Date	Claim Status	NTS Map	Claim Holder	% Held
<u>Spearhead East Claim Group</u>									
SH-1	YE14601	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-2	YE14602	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-3	YE14603	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-4	YE14604	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-5	YE14605	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-6	YE14606	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-7	YE14607	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-8	YE14608	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-9	YE14609	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-10	YE14610	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100

Table 1. Spearhead property claim group data.

Claim ID	Grant Number	Reg. Type	Staking Date	Recording Date	Claim Expiry Date	Claim Status	NTS Map	Claim Holder	% Held
SH-63	YE14663	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-64	YE14664	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-65	YE14665	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-66	YE14666	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-67	YE14667	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-68	YE14668	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-69	YE14669	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-70	YE14670	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-71	YE14671	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-72	YE14672	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-73	YE14673	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-74	YE14674	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
Spearhead West Claim Group									
SH-75	YE14675	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-76	YE14676	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-77	YE14677	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-78	YE14678	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-79	YE14679	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-80	YE14680	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-81	YE14681	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-82	YE14682	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-83	YE14683	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-84	YE14684	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-85	YE14685	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-86	YE14686	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-87	YE14687	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-88	YE14688	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-89	YE14689	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-90	YE14690	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-91	YE14691	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-92	YE14692	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-93	YE14693	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-94	YE14694	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-95	YE14695	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-96	YE14696	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-97	YE14697	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-98	YE14698	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-99	YE14699	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-100	YE14700	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-101	YE14701	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-102	YE14702	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-103	YE14703	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-104	YE14704	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-105	YE14705	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-106	YE14706	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-107	YE14707	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-108	YE14708	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-109	YE14709	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-110	YE14710	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-111	YE14711	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100
SH-112	YE14712	Quartz	02-Feb-2011	08-Mar-2011	08-Mar-2012	Active	105J13	Terrence King	100



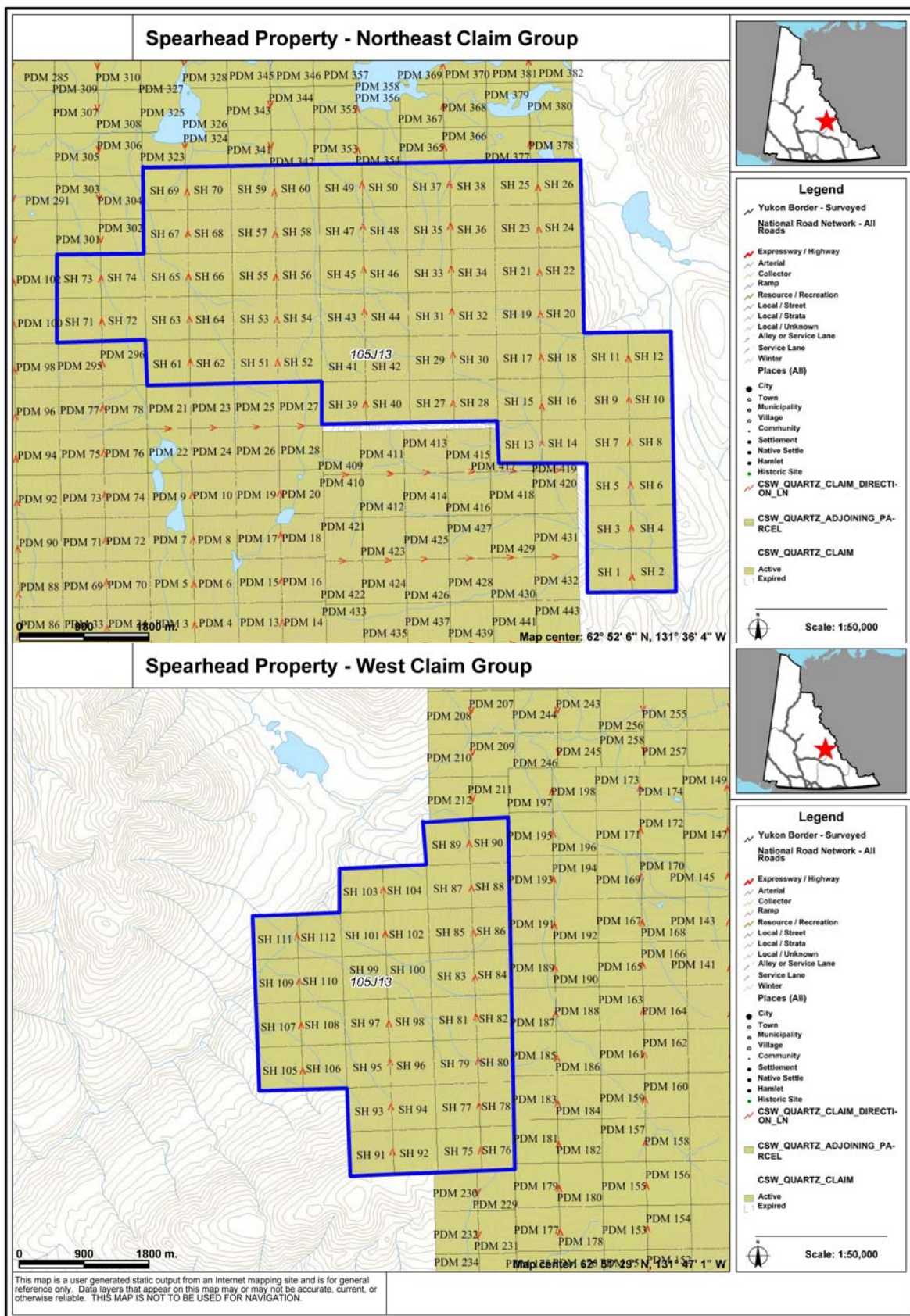


Figure 3: Spearhead property East and West claim groups.

The area has been glaciated, with outcrop observed at high peaks and in a few low-lying locations.

The property covers multiple stream basins with a well developed drainage system that flows in a westerly direction towards the Yukon River.

4.0 PROPERTY HISTORY

The area in which the Spearhead property is located has seen very limited exploration over the past few decades. From the early 1970's regional programs focused on porphyry style Cu-Mo associated with the Cretaceous stocks. Exploration in the late 1990's focused on the gold potential of the area. A summary of these activities follows.



Figure 4: Spearhead property physiography.

In 1972, Phelps Dodge Corp. of Canada Ltd. completed a program comprised of geological mapping, geochemical sampling (soil and silt), ground magnetometer, and blasting and trenching over their group of 144 claims (PDM1-144). The property covered a Cretaceous granitic intrusive and the geochemical anomaly in the adjacent sediments. These claims covered the northeast quadrant of the ground currently covered by the PDM and SH claim groups. Soil samples were analyzed for Cu and Mo. Work indicated that the Cretaceous pluton is mineralized with mainly disseminated pyrrhotite and chalcopyrite, but not of sufficient grade to warrant further work.

In 1998, Viceroy Exploration (Canada), Inc. carried out a regional geological and geochemical exploration program in the Selwyn Basin as a follow-up to previously identified geochemical gold anomalies (rock, soil and silt). The Mozart claim group, one of the properties in this regional program, covered the Cretaceous pluton and the adjacent Earn Group and Road River Group sediments to the north. Some of this ground is covered by the current Spearhead East claim group. Consistently anomalous gold in silt values were obtained along the northern portion of the Mozart claim group. The north flowing stream in the northwest portion of their property had anomalous Au in silt

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

The Spearhead property is situated within the late Precambrian to Permian Selwyn Basin geologic province which is part of the Omineca Morphological Belt (Hart, YGS). The basin resulted from miogeoclinal deposition and is comprised of low-energy, marine, clastic and chemical sediment as well as basinal clastics that were deposited in shelf and off-shelf environments of the Ancestral North American (Laurentia) craton. The northwest trending province grades into the Mackenzie Platform to the east and into the Cassiar Platform to the southwest. Along the westerly side, the basin margin is defined by the dextral Tintina fault and in the Anvil District, a thrust fault contact with the Yukon-Tanana Terrane.

In the Spearhead property region (Figure 5), the sedimentary sequence consists of a layer of basal sandstone overlain by the Late Ordovician to Early Devonian Road River Group (ODR) deep water sediments. This group is comprised of the Duo formation carbonaceous to siliceous shale, cherty mudstone, limestone and chert, and the overlying Steel formation resistant turbiditic mudstone. The Duo formation conformably overlies the silty limestone, calcareous phyllite, siliceous slate and chert, and locally intercalated mafic volcanic units of the Rabbitkettle formation (COR1).

The Road River group has been overlain by the turbiditic, Devonian/Mississippian Earn Group (DME), comprised of submarine fan and channel deposits within black siliceous shale and chert and locally, small occurrences of felsic volcanic rocks and associated barite and sulphides. In

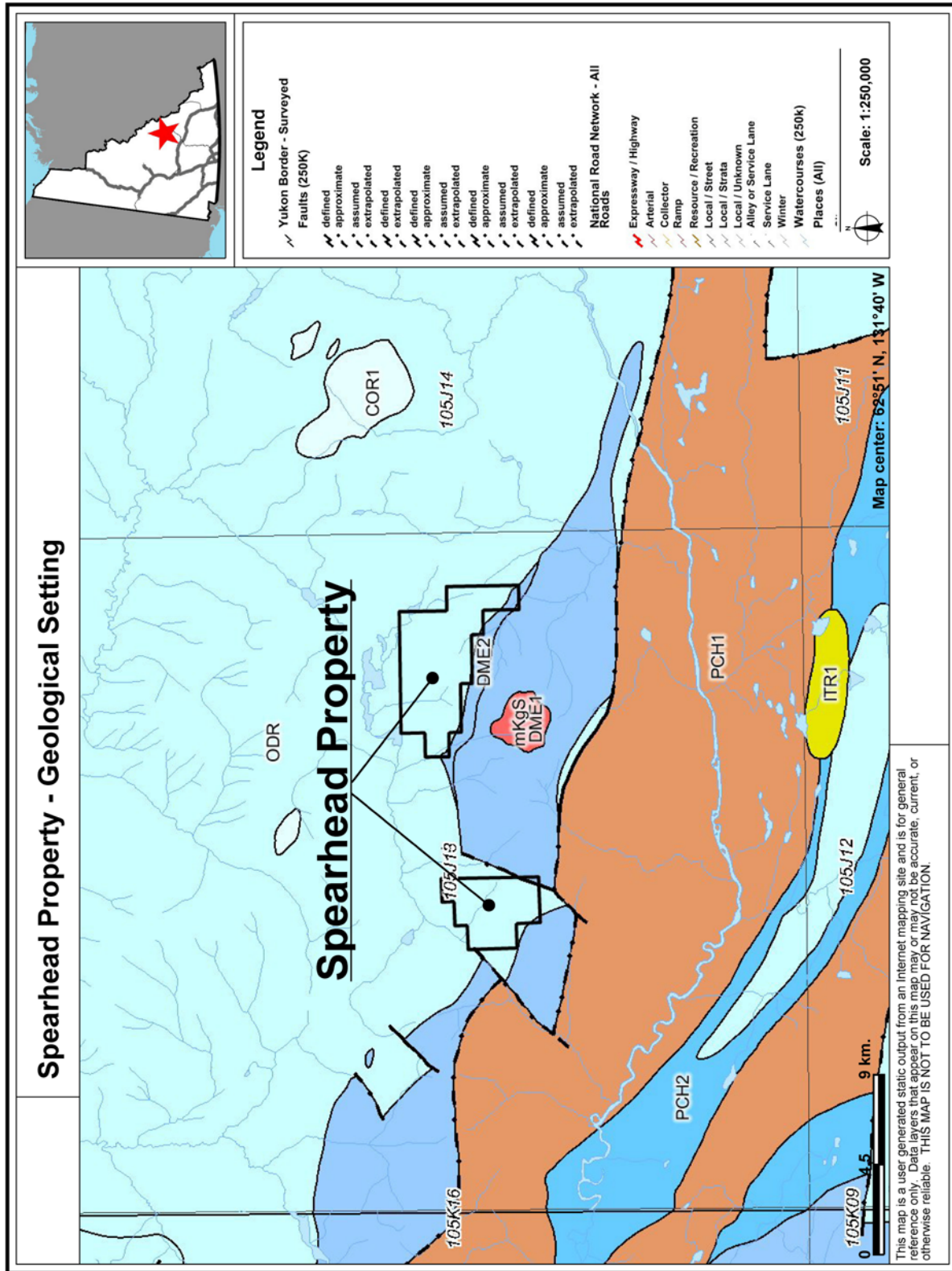


Figure 5: Regional geological setting of the Spearhead Property.

the vicinity of the Spearhead property, the Earn Group is comprised of predominantly thin bedded laminated slates (DME1) and blue weathering black shale (DME2) with interbeds including chert-quartz arenite and wacke, pebble conglomerate; siltstone; barite and rare limestone. To the southwest, the Road River Group and Earn Group sediments are in fault contact with the Upper Proterozoic to Lower Cambrian Hyland Group limestone (PCH1).

Mid-Cretaceous Selwyn Suite plutons grading from intermediate to felsic in composition (mKgS) intrude both the Earn and Road River Groups sediments.

Deformation of Selwyn Basin rocks is dominated by Mesozoic structures reflecting a response to largely northeasterly directed compression caused by plate convergence and the accretion of pericratonic terranes onto North America. In the region of the Spearhead property, the contact between the Road River Group and Earn Group sediments and the older Hyland Group sediments is defined by a southeast dipping thrust fault (Diment, 1999).

The rocks of Selwyn Basin are relatively incompetent when compared to the carbonate rocks of the adjacent platforms. The rocks deformed internally as a homogeneous mass forming the thrust and fold belt called the Selwyn Fold Belt characterized by large-scale thrust faulting, open to tight similar folds, imbricate fault zones, and the development of axial planar slaty cleavage. The competent chert units deformed as chevron folds or isoclinal folds.

Regional metamorphism is lower greenschist facies. Contact metamorphic aureoles associated with the Cretaceous plutons can be up to several kilometres in diameter and have resulted in the generation of calc-silicate, pelitic and siliceous hornfels.

5.2 Local Geology

The Spearhead property is situated north of the Tintina Fault zone and towards the eastern end of the Tintina Gold province.

The claims are underlain primarily by Late Ordovician to Early Devonian Road River Group sediments, and to a minor extent, the younger overlying Earn Group sediments. The Road River Group includes thin to medium bedded light grey to black chert and often graphitic black shale of the older Duo formation, and orange weathered, bioturbatic, dolomitic to grey-green

mudstone to siltstone containing lesser chert of the overlying Steel formation. The Road River Group is stratigraphically equivalent to the Cambrian to Lower Devonian Bouvette formation dolostone that hosts ATAC Resources' Osiris Zone, Carlin-type gold discovery located within the Selwyn Basin approximately 145 kilometres north-northwest of the Spearhead property.

The southwestern boundary of the claim groups touch upon the two formations comprising the Earn Group. These formations include the Lower to Middle Devonian Portrait Lake Formation (DmE2) and the overlying Upper Devonian to Mississippian coarse clastic Prevost Formation (DmE1). The Portrait Formation conformably overlies the Steel Formation of the Road River Group and is unconformably overlain by the Prevost Formation.

The Portrait Lake Formation is comprised of chert and shale and includes silvery-blue weathered siliceous shale, argillite, cherty argillite and thin-bedded chert. Local coarser sediments such as chert quartz-arenite and wacke, pebbly mudstone and chert pebble conglomerate were turbidically introduced. Limestone beds are not common. The upper part of the Portrait Lake Formation includes a regionally extensive bedded barite horizon.

The predominantly coarse clastic Prevost Formation is composed of brown weathering shale and siltstone, and thick members of sandstone and chert pebble conglomerate. Sedimentary features such as massive bedding, both graded and chaotic bedding, and large groove casts are present in the coarser clastic beds. Clast composition and structure indicate that the coarse clastics may represent the weathered products from an uplifted sedimentary terrane whose composition may possibly include the Hyland and Road River Groups.

Immediately south of the East claim group, a Cretaceous Selwyn Suite granitic stock has intruded the Earn Group sediments.

The sedimentary packages in the local area strike in a general east-southeast direction with south-southwest dips ranging from approximately 40° to near-vertical. Local faulting is found near the Spearhead West claim group where possibly two ramp faults associated with the regional southeast dipping thrust fault bracket the claim group.

6.0 MINERALIZATION

Significant mineral deposits in the Spearhead property region include both sedex Pb-Zn and tungsten skarn. The Faro, Vangorda and Grum sedex zinc-lead-silver-gold past-producers are located approximately 95 km to the southwest at Faro. The Tom and Jason deposits which are located in the Mac Pass area approximately 75 to 85 km to the east northeast have a geological resource of 15.7 million tonnes at 7% Zn, 4.6% Pb and 49.1 g/t Ag, and 10.9 million tonnes at 7.12% Pb, 6.76% Zn and 77.05 g/t Ag, respectively. The Mactung tungsten skarn also situated in the Mac Pass region approximately 95 km to the east northeast of the Spearhead property has a resource (indicated and inferred) of 44.9 million tonnes grading 0.85% WO₃ and is currently under development by North American Tungsten Ltd with a target underground production of 2,000 tonnes/day.

The Spearhead claim group is situated toward the east end of Tintina Gold Belt or Province, a broad arcuate belt that extends across central Alaska and the Yukon, and hosts the Fort Knox, Brewery Creek, Dublin Gulch and Pogo gold deposits. This province has a varied geology and is characterized by gold occurrences proximal to intrusions of Cretaceous granitoids (Hart and Selby, 2001). More recently, Carlin Trend type gold environments have been identified within Selwyn Basin portion of the gold belt.

Since 2009, exploration activities by ATAC Resources Limited and other companies have focused on Carlin-style gold mineralization associated with the Cambrian to Lower Devonian Bouvette formation and Precambrian to Lower Cambrian Hyland Group rocks in an area approximately 145 kilometres north-northwest of the Spearhead property. According to Hofstra and Cline (2000), the classic geochemical signature for Carlin style mineralization is characterized by elevated As, Hg, Sb, Tl and Au:Ag ratio greater than 1. Government regional silt anomalies in ATAC's Osiris area clearly show the distinctive geochemical signature characteristic of Carlin-style, sediment-hosted, disseminated gold deposits. A 2010 diamond drill program to test the anomalies within the Orisis area intersected 65.2 metres grading 4.65 grams per tonne gold. During 2011, drilling of the Isis East Zone located in close proximity to the Osiris Zone, intersected 51.82 metres at 3.13gpt gold. The Conrad Zone situated one kilometre east of the Osiris Zone returned 3.15 gpt over a core length of 114.93 metres. The gold is within altered limestone of the Bouvette formation, the platform correlative of the Selwyn Basin sediments including the Road River Group (Chakungal and Bennett, 2011).

7.0 2011 FIELD PROGRAM

A five day, helicopter supported, reconnaissance program comprised of prospecting and geological mapping along with soil, silt and rock sampling was carried out on the Spearhead property from 18-22 June, 2011. The objective of the program was to complete a preliminary assessment of the property's gold potential and to identify potential Carlin-style gold targets. Traverses were completed such that the inferred sources of the elevated regional silt samples identified in the government regional surveys were prospected and sampled. The program was carried out from a road accessible base camp near the Canol Road with a helicopter being used to ferry crews to and from the property on a daily basis.

The field crew consisted of five personnel under the supervision of geologist Edward Dashwood. In addition to the geologist, the crew members consisted of prospector Michael Glynn and samplers Andrew Blampin, Greg Gallaway and Sam Snelling.

The crews prospected and sampled the West SH claim group on 18 June 2011, collecting a total of 61 samples (soil, silt and rock). From 19-22 June 2011, work moved over to the East SH claim group where a total of 212 samples (soil, silt and rock) were collected.

7.1 Sampling Procedure

Soil and silt sampling traverses were planned using topography and historical sample results and programmed into the samplers GPS units. Soil samples were taken with stainless steel Dutch augers and placed into a labelled brown kraft soil sample bag along with the analytical laboratory plastic sample tag. The sample conditions and attributes were recorded into a field book and the soil sample locations were then recorded with a hand held GPS unit. Each sample location was also photographed for a digital visual record. Sample locations were marked with orange flagging tape showing the sample number. The samples were allowed to dry prior to shipping to the lab for analysis.

Silt samples were taken based on the conditions of the stream system. Once a suitable sampling site was found, sediment was sieved, if necessary, and the resulting silt placed into a labelled plastic poly bag. The analytical laboratory plastic sample tag was also placed inside the bag. The sample attributes and conditions were recorded into a field notebook and the location was

recorded by hand held GPS unit. Sample locations were marked in the field with orange flagging tape showing the sample number. The samples were allowed to dry prior to shipping to the lab for analysis.

Rock samples were taken based on mineralogy, structure and change in lithology. Samples were placed inside labelled plastic poly bags with the appropriate plastic sample tag for the analytical laboratory. Sample conditions, environment and attributes were recorded in a field notebook and the location recorded by hand held GPS unit. Sample locations were marked with orange flagging tape showing the sample number.

In total, 212 soil samples, 13 silt samples and 31 rock samples were collected. A breakdown of sample types by claim group is presented below in Table 2.

Table 2: Sampling summary for the Spearhead claim groups

Spearhead Claim Group	Sample Dates	No. Days	No. Samples			Totals
			Soil	Silt	Rock	
West	18 June 2011	1	52	4	5	61
East	19-22 June 2011	4	160	9	26	195
Totals		5	212	13	31	256

The sample location maps and prospecting tracks for the East and West claim groups are shown on the maps in Appendix I. The sample descriptions and sample results are presented for the soil samples in Tables 5 and 6, respectively, for the silt samples in Tables 7 and 8, respectively, and for the rock samples in Tables 9 and 10, respectively, in Appendix II.

In addition to sampling, structural observations, and pictures were taken along the traverses. These field observations are documented in Table 11 (Appendix II).

A description of the analytical procedure and the Certificates and Analysis are presented in Appendix "III".

7.2 Sample Analysis

All samples were sent to ACME Laboratories in Whitehorse for sample preparation and analyzed in Vancouver by ICP-MS ultra trace.

8.0 QUALITY ASSURANCE AND QUALITY CONTROL

No QA/QC samples were included in the samples submitted for analysis. Both the Acme Analytical Laboratories Limited facility in Whitehorse where the sample preparation is carried out and the Vancouver facility where the analysis is carried out are ISO 9001 certified.

Acme Labs inserts blanks (analytical and method), duplicates and standard reference materials in the sequences of client samples to provide a measure of background noise, accuracy and precision. QA/QC protocol incorporates granite or quartz sample-prep blank(s) carried through all stages of preparation and analysis as the first sample(s) in the job. Typically an analytical batch will be comprised of 34-36 client samples, a pulp duplicate to monitor analytical precision, a -10 mesh reject duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and an aliquot of Certified Reference Material (CRM) or In-house Reference Material to monitor accuracy. In the absence of suitable CRMs in-house Reference Materials are prepared and certified against internationally certified reference materials such as CANMET and USGS standards where possible and will be externally verified at a minimum of three other commercial laboratories. Using these inserted quality control samples each analytical batch and complete job is rigorously reviewed and validated prior to release.

9.0 DISCUSSION AND CONCLUSIONS

9.1 DISCUSSION

The sedimentary packages within both claim groups were found to have bedding striking in a general east-southeast direction and dipping to the south-southwest at angles from approximately 40° to near-vertical.

Although no detailed geological mapping was conducted on either claim group, the prospectors and samplers reported seeing multiple gossans, oxidized outcrops, and quartz veining and breccia zones. One such breccia zone trending south-southwest from the central peak of the Spearhead East claims measured 10 metres across and was sampled over 50 metres. Its full extent was not recorded and so remains open. It returned anomalous arsenic, copper, molybdenum and barium values (see sample numbers 120211, 120212 and 120213 in Appendix II).

Frozen ground / permafrost conditions were encountered at some sample sites in lower lying areas below 1400 metres elevation making it, at times, difficult to obtain a good sample. In general, the better samples were obtained from higher elevations along ridge tops where the soils contained less organic material.

Two of the better gold values from the stream sediment sampling program also came from the Spearhead East property. Sample numbers 1207152 and 1207305 (Appendix II) returned gold values of 18.1 and 15.7 ppb Au respectively. Both samples were collected from two first order stream courses that drain a prominent peak located in the south east portion of that block. A further four stream sediment samples from the Spearhead East property also returned anomalous thallium (Tl) values ranging between 0.4 and 0.6 ppm Tl. For this area of the Yukon 0.6 ppm thallium is considered highly anomalous.

Soil Sample Statistical Analysis

Since the two claim groups, Spearhead East and Spearhead West, are in close proximity to each other and have similar underlying geology, the results of the soil sampling were treated as a single set of 212 samples. Figure 6 is the histogram of these samples that was constructed using a 1 ppb bin size and an upper cut-off of 22 ppb, and includes 96% of the sample set (204 of the 212 samples). A polynomial trendline was superimposed on the histogram from which a cut-off of 11 ppb was deemed to define the upper limit of the base population. The 11 ppb cut-off captures 85% (181 samples) of the sample set.

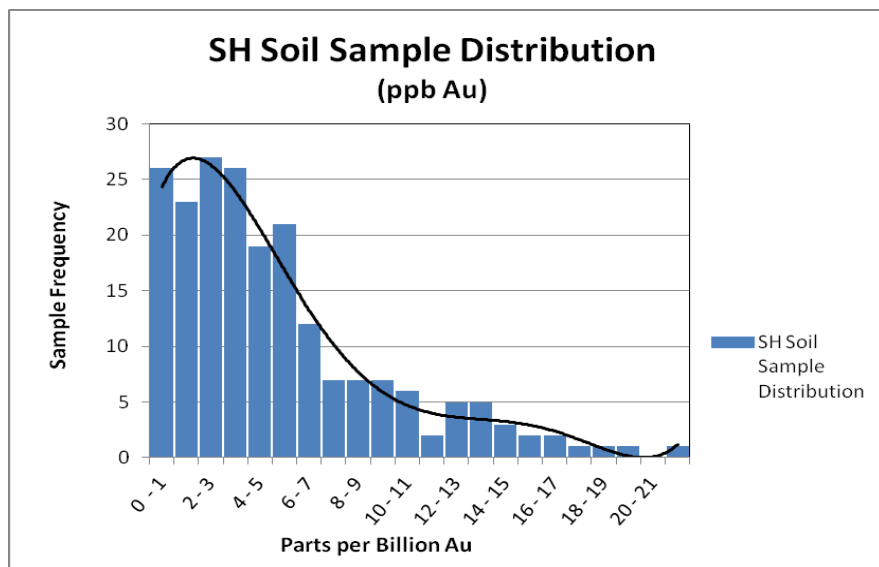


Figure 6: Histogram with trendline for the soil samples from the Spearhead East and West claim groups.

The results of the statistical analysis of the base population are shown in Table 3. This analysis indicates any sample containing greater than 9.61 ppb Au can be considered anomalous. Out of the original set of 212 samples, 39 samples (18.4%) returned values greater than 9.61 ppb Au and 7 had values greater than 30 ppb Au. The highest gold in soil value was 75.3 ppb. The Spearhead East claim group accounted for 36 of the anomalous samples whereas the Spearhead West claim group accounted for the three remaining anomalous samples.

Table 3: Results of the statistical analysis of the base population.

n:	181
% of Total Population:	85%
Mean (M):	4.1
Population Variance:	7.7
Standard Deviation (SD):	2.8
Anomalous (> M + 2 SD):	9.61

Correlation analysis

Correlation analysis is a statistical technique that can show whether and how strongly pairs of variables are related. Correlation reports for the characteristic elements associated with Carlin-style gold are presented in Figures 7 and 8 which cover the soil samples from the Spearhead East and West claim groups, respectively. The closer the correlation coefficient is to 1.0, the stronger the relationship between the two

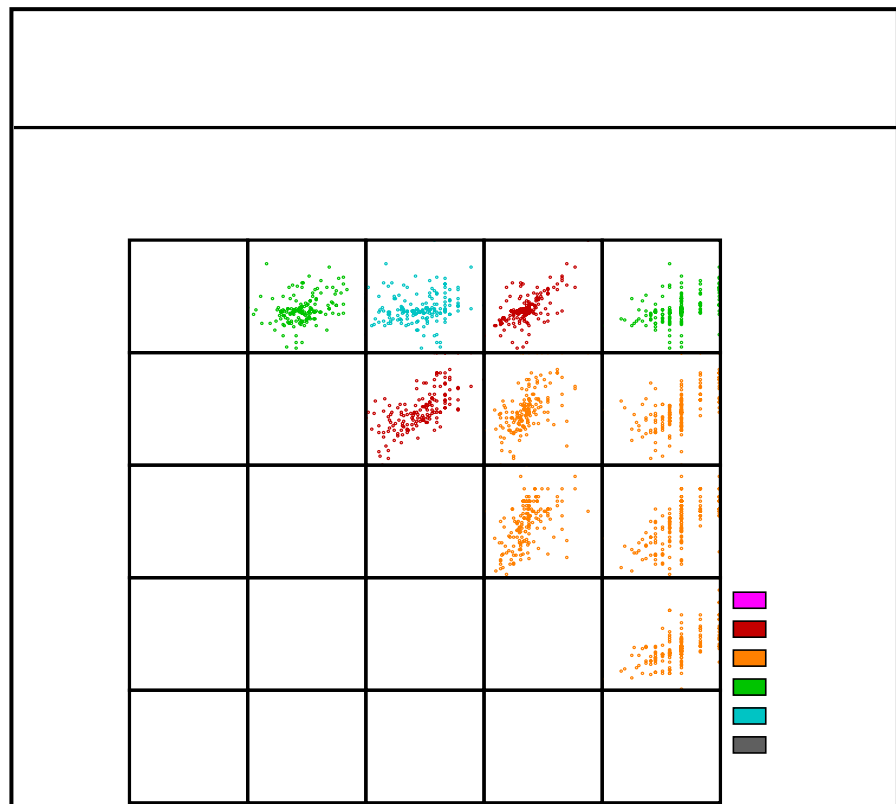


Figure 7: Spearhead East claim group soil geochemistry correlation report.

variables. The correlation tables were generated using the Geosoft Geochemistry Add-on for ArcGIS

9.2 Conclusions

To date, exploration in this part of the Selwyn Basin has been largely confined to sedex base metal targets and more recently, gold. Previous work in the area covered by the Spearhead East claim group showed that the Cretaceous granitic stock within the Earn Group sediments is well mineralized with disseminated pyrrhotite and chalcopyrite and

that anomalous gold values are present in silt and soil in drainage systems originating close to this same stock. As a result, the Spearhead property is believed to have excellent potential for a significant gold discovery.

The regional geology and geochemistry suggest that the Spearhead property has good potential for Carlin-style gold mineralization in the Road River Group rocks which are stratigraphically equivalent to the host Bouvette formation hosting ATAC Resources' Osiris Gold Zone, a Carlin-type gold discovery situated within the Selwyn Basin approximately 145 kilometres north-northwest of the Spearhead property.

The classic geochemical signature for Carlin style mineralization is characterized by elevated As, Hg, Sb, Tl and Au:Ag > 1. Approximately 18% of the soil samples acquired during the sampling program were deemed anomalous for gold and a soil assay correlations report generated for the Spearhead East property shows Au values correlating well with Hg, Sb and Tl.

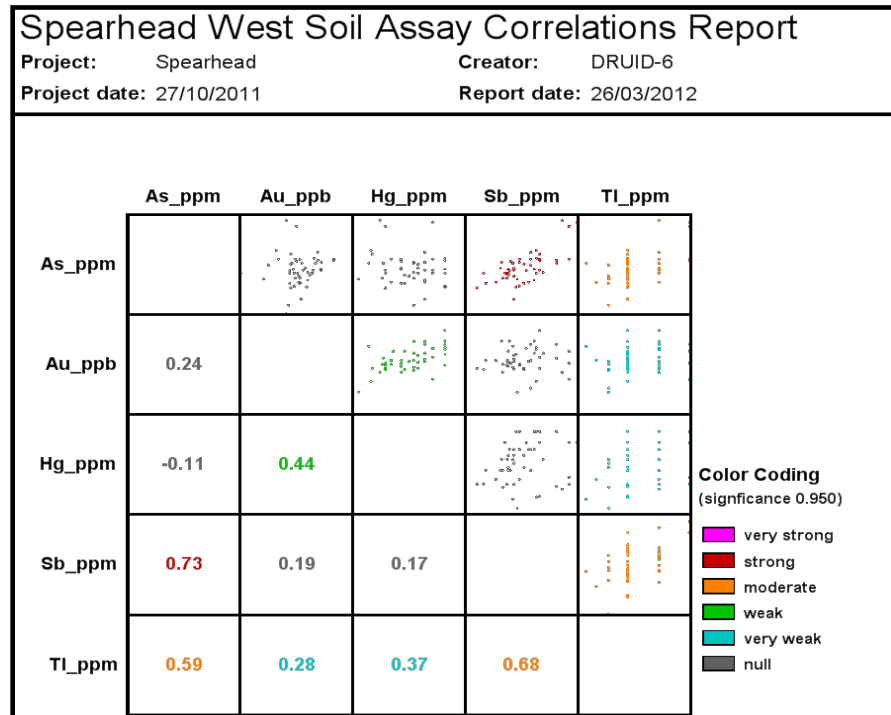


Figure 8: Spearhead West claim group soil geochemistry correlation report.

The Spearhead West correlation does not lend itself to the presence of Carlin-style gold in the area. The soil samples from this claim group indicate that Au has a weak Hg and very weak Tl correlation, and no correlation with As and Sb.

Sampling indicates that the central area of the Spearhead East claim group may have good gold potential. The soil samples anomalous in gold and silver, and with ratios greater than 1, as well as multiple soil samples anomalous in Au with coincident anomalous values for As, Hg and Sb occur in this area. Additionally, stream sediment samples from the creeks draining this area returned geochemically anomalous Au and Tl values. The source[s] of the anomalous gold values seen in stream sediment samples along the central and west drainage systems of the Spearhead East claim group have not yet been explained.

10.0 RECOMMENDATIONS

Further work is recommended for 2012 and should focus on the Spearhead East claims (SH-1 to SH-74), paying particular attention to areas where soil samples are elevated in Au, As, Sb, Hg and Tl. To mitigate frozen ground and permafrost issues, any follow-up program should not be conducted before July 1st. The proposed budget for this work is \$87,230 (Table 4).

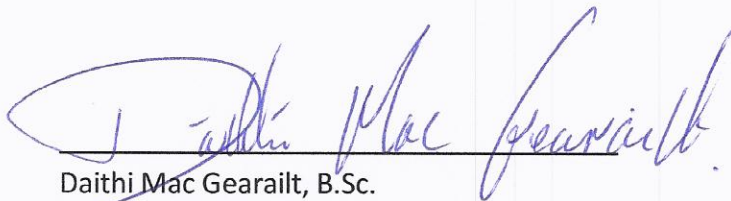
Components of the proposed program include:

- Detailed geological mapping of the central and southeastern portion of the claim block.
- Tight spaced (50m) geochemical stream sediment silt sampling along the central and south eastern drainages to try and vector in on the sources of gold in silts.
- Further sampling and investigation of the area of brecciation discovered in 2011 that returned anomalous As values over 50m.
- Further tight spaced (50m X 50m) soil sampling in grids over geochemically anomalous areas.
- Systematic rock sampling and prospecting.

Table 4: Proposed budget for the recommended 2012 follow-up field program on the Spearhead East claim group.

Item #	Program Item	Proposed Cost
1	6 men x 7 days @ \$2,700 per day	\$18,900
2	Camp, food and accommodation @ 500 per day	\$3,500
3	Mapping @ \$700 per day	\$4,900
4	Assaying: 1000 soil samples @ \$30 per sample	\$30,000
5	Assaying: 200 rocks samples @ \$30 per rock	\$6,000
6	Helicopter x 8 hrs @ \$2000 per hr + fuel	\$16,000
7	Contingency @ 10%	\$7,930
	TOTAL BUDGET	\$87,230

Respectfully submitted,



Daithi Mac Gearailt, B.Sc.

April 10th, 2012

11.0 REFERENCES

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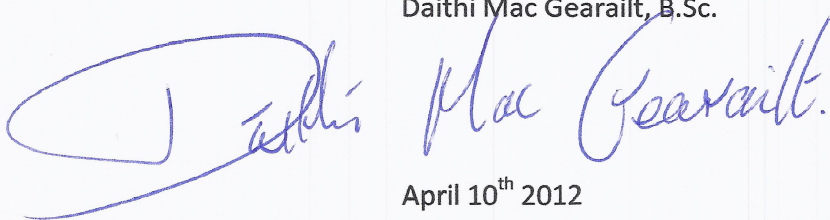
12.0 STATEMENT OF QUALIFICATIONS OF AUTHOR[S]

I, Daithi Mac Gearailt, of:
Dawson City, Yukon Territory
Y0B 1G0,
867-993-6155

Do hereby certify that:

1. I am a mineral exploration geologist with over 5 years of experience working in Ireland, Yukon Territory and Alaska.
2. I am a graduate of National University of Ireland-Galway (NUIG), with an honors degree in geology (B.Sc., 2007) and have been involved in geology and mineral exploration continuously since 2007.
3. I am a member of The Yukon Chamber of Mines, The Association for Mineral Exploration British Columbia, AME BC and of the Irish Association of Economic Geology (IAEG).
4. I am the author of this report on the Spearhead property located in the Mayo Mining District, Yukon. The report is based on information given to me and on referenced sources. It is, to the best of my knowledge, true and correct.

Daithi Mac Gearailt, B.Sc.



April 10th 2012

13.0 STATEMENT OF EXPENDITURES

EXPLORATION COSTS ASSOCIATED WITH THE		MAYO	
Spearhead NE PROPERTY (SH 1 to 74) BETWEEN June -19th and 22nd - 2011			
ITEM	COST/ UNIT	UNIT AMOUNT	TOTAL
HELICOPTER + Fuel (Heli -D, Mc Kinsey Petro)	\$ 1,950.00	5.3	\$ 10,335.00
ROCK ASSAY	\$ 28.88	26	\$ 750.88
SILT ASSAY	\$ 18.00	9	\$ 162.00
SOIL ASSAY	\$ 18.00	160	\$ 2,880.00
Geologist (Edward Dashwood)	\$ 500.00	5	\$ 2,500.00
3 x Soil Samplers = 300 /day each	\$ 900.00	5	\$ 4,500.00
Mapping	\$ 1,000.00	1	\$ 1,000.00
Prospector 1 x 425 / day (M. Glynn)	\$ 425.00	5	\$ 2,125.00
Accomadation - camp- rental -DRUID Ex	\$ 600.00	5	\$ 3,000.00
Flat Deck Trailer	\$ 100.00	5	\$ 500.00
Cargo Trailer	\$ 100.00	5	\$ 500.00
Office equipment + communications (Sat Phone)	\$ 300.00	1	\$ 300.00
Food	\$ 400.00	5	\$ 2,000.00
Truck Rental x 2	\$ 250.00	5	\$ 1,250.00
Fuel	\$ 650.00	1	\$ 650.00
Report preperation	\$ 3,000.00	1	\$ 3,000.00
		TOTAL	\$ 35,452.88

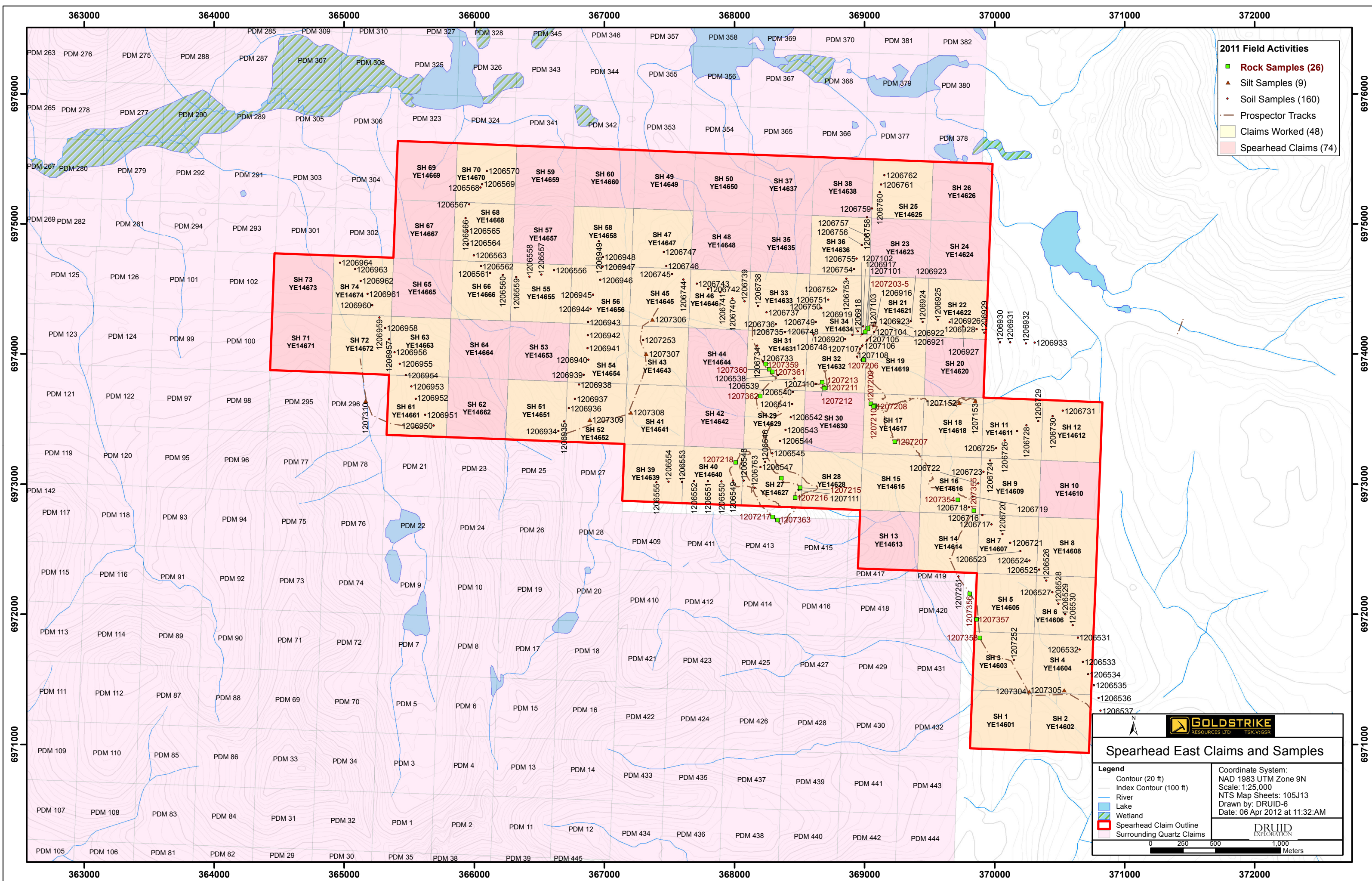
EXPLORATION COSTS ASSOCIATED WITH THE		MAYO	
Spearhead West PROPERTY (SH 75 to 112) on June - *18th - 2011			
ITEM	COST/ UNIT	UNIT AMOUNT	TOTAL
HELICOPTER + Fuel (Heli -D, Mc Kinsey Petro)	\$ 1,950.00	2	\$ 3,900.00
ROCK ASSAY	\$ 28.88	5	\$ 144.40
SILT ASSAY	\$ 18.00	4	\$ 72.00
SOIL ASSAY	\$ 18.00	52	\$ 936.00
Geologist (Edward Dashwood)	\$ 500.00	3	\$ 1,500.00
3 x Soil Samplers = 300 /day each	\$ 900.00	2	\$ 1,800.00
Mapping	\$ 1,000.00	1	\$ 1,000.00
Prospector 1 x 425 / day (M. Glynn)	\$ 425.00	2	\$ 850.00
Accomadation - camp- rental -DRUID Ex	\$ 600.00	2	\$ 1,200.00
Flat Deck Trailer	\$ 100.00	2	\$ 200.00
Cargo Trailer	\$ 100.00	2	\$ 200.00
Office equipment + communications (Sat Phone)	\$ 300.00	1	\$ 300.00
Food	\$ 400.00	2	\$ 800.00
Truck Rental x 2	\$ 250.00	2	\$ 500.00
Fuel	\$ 450.00	1	\$ 450.00
Report preperation	\$ 1,500.00	1	\$ 1,500.00
		TOTAL	\$ 15,352.40

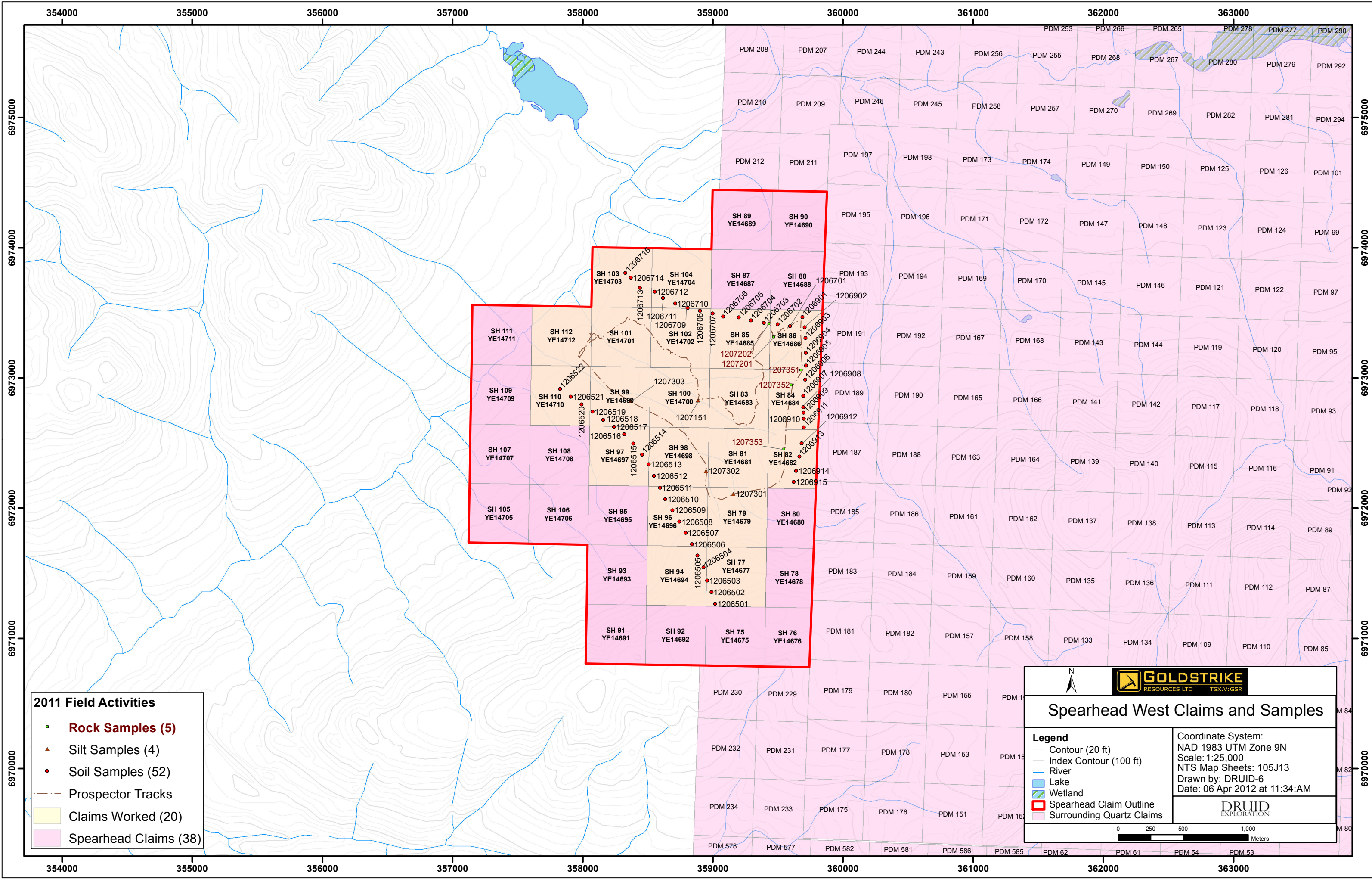
* One weather day so camp and crew cost included for one day stand by

APPENDIX I

Spearhead East Claim Group: Sample Location Map and Prospector Tracks

Spearhead West Claim Group: Sample Location Map and Prospector Tracks





APPENDIX II

Table 5	Soil Sample Descriptions
Table 6	Soil Sample Results
Table 7	Silt Sample Descriptions
Table 8	Silt Sample Results
Table 9	Rock Sample Descriptions
Table 10	Rock Sample Results
Table 11	Field Observations

Table 5: Spearhead Property - Soil Sample Descriptions



Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Sample ID	Quartz Mining Claim	Claim Group (W / NE)	Sample Date	Soil Sampler	Station	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Depth within Sampled Horizon	Sample Colour	Sample Comp. %						Parent Material	Moisture	Content	Vegetation	Cover	Topo	Position	Comment
						Eastings	Northing	Elev.					Organics	Ang. Rock	Gravel	Sand	Silt	Clay								
1206501	SH-77	W	18-Jun-2011	GG		359019.3	6971264.2	1545	40-50	c	25-30	dark brown		70		30			weathered bedrock	wet		alpine		ridge top		
1206502	SH-77	W	18-Jun-2011	GG		358991.2	6971353.1	1524	40-50	c	20-25	light brown		30		40	30		weathered bedrock	dry		alpine		ridge top		
1206503	SH-77	W	18-Jun-2011	GG		358957.2	6971442.1	1505	50-60			light brown	10	20		20	30	20	weathered bedrock	moist		buck brush		mid slope		
1206504	SH-94	W	18-Jun-2011	GG		358929.3	6971542.4	1498	40-50	c	20-25	black		20		50		30	weathered bedrock	moist		alpine		mid slope		
1206505	SH-94	W	18-Jun-2011	GG		358884.4	6971634.5	1479	50-60	c	30 up	black		40		40	20		weathered bedrock	dry		alpine		mid slope		
1206506	SH-96	W	18-Jun-2011	GG		358840.3	6971720.6	1448	30-40	c	15-20	dark grey		20		20	35	25	weathered bedrock	wet		alpine		mid slope		
1206507	SH-96	W	18-Jun-2011	GG		358791.9	6971808.7	1415	50-60	c	30 up	dark brown		50		50			weathered bedrock	moist		alpine		mid slope		
1206508	SH-96	W	18-Jun-2011	GG		358743.9	6971893.9	1373	60-70	c	30 up	dark grey		20		30	30	20	weathered bedrock	wet		evergreen forest		mid slope		
1206509	SH-96	W	18-Jun-2011	GG		358689.9	6971980.2	1323	20-30	a/b	5-10	black	40				30	30	weathered bedrock	frozen		evergreen forest		mid slope		
1206510	SH-96	W	18-Jun-2011	GG		358636.2	6972066.2	1296	40-50	c	5-10	light brown		20		20	30	30	weathered bedrock	wet		evergreen forest		mid slope		
1206511	SH-96	W	18-Jun-2011	GG		358595.3	6972155.2	1268	40-50	b/c	5-10	yellowish orange		20		20	30	30	weathered bedrock	partially frozen		evergreen forest		mid slope		
1206512	SH-98	W	18-Jun-2011	GG		358549.8	6972246.5	1234	50-60	c	30 up	yellowish orange		40		60			weathered bedrock	wet		evergreen forest		mid slope		
1206513	SH-98	W	18-Jun-2011	GG		358507.9	6972335.2	1215	40-50	c	10-15	yellowish orange		50		50			weathered bedrock	moist		evergreen forest		mid slope		
1206514	SH-97	W	18-Jun-2011	GG		358457.0	6972409.9	1180	30-40	b/c	5-10	light brown	20	10			40	30	weathered bedrock	frozen		evergreen forest		mid slope		
1206515	SH-97	W	18-Jun-2011	GG		358391.0	6972494.1	1162	60-70	b/c	10-15	dark grey				10	70	20	weathered bedrock	frozen		evergreen forest		mid slope		
1206516	SH-97	W	18-Jun-2011	GG		358320.0	6972564.8	1137	40-50	c	15-20	yellowish orange		30		40	30		weathered bedrock	frozen		evergreen forest		mid slope		
1206517	SH-97	W	18-Jun-2011	GG		358241.2	6972622.9	1120	30-40	b/c	5-10	light brown		40		40	20		weathered bedrock	frozen		evergreen forest		mid slope		
1206518	SH-99	W	18-Jun-2011	GG		358159.1	6972676.4	1099	40-50	c	15-20	light brown		50		50			weathered bedrock	partially frozen		buck brush		mid slope		
1206519	SH-99	W	18-Jun-2011	GG		358076.8	6972739.8	1080	20-30	b/c	5-10	black	30				30	40	weathered bedrock	frozen		buck brush		mid slope		
1206520	SH-110	W	18-Jun-2011	GG		357991.1	6972794.5	1067	20-30	a/b	5-10	black	60				20	20	weathered bedrock	frozen		buck brush		mid slope		
1206521	SH-110	W	18-Jun-2011	GG		357910.2	6972853.4	1071	30-40	b/c	10-15	light brown	20	30		50			weathered bedrock	moist		buck brush		mid slope		
1206522	SH-110	W	18-Jun-2011	GG		357826.4	6972912.6	1048	60-70	c	30 up	yellowish orange		40		40	20		weathered bedrock	moist		buck brush		mid slope		
1206523	SH-7	E	19-Jun-2011	GG		370199.5	6972482.6	1310	60-70	c	30 up	black		80		10	10		weathered bedrock	moist		evergreen forest		mid slope	East. Typical c horizon then very black below.	
1206524	SH-7	E	19-Jun-2011	GG		370269.4	6972411.6	1283	30-40	c	15-20	light brown	20	30		25	25		weathered bedrock	moist		evergreen forest		mid slope		
1206525	SH-8	E	19-Jun-2011	GG		370342.6	6972340.4	1260	50-60	c	30 up	light brown	10	40		30	20		weathered bedrock	moist		buck brush		mid slope		
1206526	SH-6	E	19-Jun-2011	GG		370398.9	6972255.9	1247	40-50	c	15-20			30		40	10	20	weathered bedrock	wet		buck brush		mid slope		
1206527	SH-6	E	19-Jun-2011	GG		370444.5	6972168.2	1232	50-60	c	30 up	dark grey	10	40		50			weathered bedrock	moist		buck brush		mid slope		
1206528	SH-6	E	19-Jun-2011	GG		370490.9	6972078.8	1223	60-70	c	30 up	yellowish orange		30		30	20	20	weathered bedrock	moist		buck brush		mid slope		
1206529	SH-6	E	19-Jun-2011	GG		370545.3	6971997.1	1213	30-40	b/c	10-15	yellowish orange		20		20	30	30	weathered bedrock	moist		buck brush		mid slope		
1206530	SH-6	E	19-Jun-2011	GG		370601.2	6971914.1	1197	50-60	c	30 up	light brown		40		30	15	15	weathered bedrock	moist		evergreen forest		mid slope		
1206531	SH-4	E	19-Jun-2011	GG		370641.1	6971818.6	1191	30-40	c	10-15	yellowish orange		30		70			weathered bedrock	dry		buck brush		mid slope		
1206532	SH-4	E	19-Jun-2011	GG		370655.4	6971727.3	1181	20-30	b/c	5-10	light brown		40		60			weathered bedrock	dry		buck brush		mid slope		
1206533	SH-4	E	19-Jun-2011	GG		370681.0	6971632.1	1157	60-70	c	30 up	light brown		50		40	10		weathered bedrock	dry		evergreen forest		mid slope		
1206534	SH-4	E	19-Jun-2011	GG		370720.4	6971535.8	1154	60-70	c	25-30	black	40				30	30	weathered bedrock	frozen		evergreen forest		mid slope	East. orange horizon with black below	
1206535	n/a	E	19-Jun-2011	GG		370765.4	6971451.5	1134	50-60	c	30 up	light brown		30		40	30		weathered bedrock	moist		evergreen forest		mid slope		
1206536	n/a	E	19-Jun-2011	GG		370801.3	6971354.1	1106	40-50	c	5-10	yellowish orange		30		20	20	30	weathered bedrock	wet		evergreen forest		mid slope		
1206537	n/a	E	19-Jun-2011	GG		370816.2	6971256.1	1094	30-40	c	5-10	light brown		20		20	20	40	weathered bedrock	frozen		evergreen forest		mid slope		
1206538	SH-31	E	20-Jun-2011	GG		368333.9	6973836.4	1721	30-40	c	10-15	dark brown	10	20		30	40		weathered bedrock	moist		alpine		ridge top		

Table 5: Spearhead Property - Soil Sample Descriptions

Sample ID	Quartz Mining Claim	Claim Group (W / NE)	Sample Date	Soil Sampler	Station	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Depth within Sampled Horizon	Sample Colour	Sample Comp. %						Parent Material	Moisture	Content	Vegetation	Cover	Topo	Position	Comment
						Easting	Northing	Elev.					Organics	Ang. Rock	Gravel	Sand	Silt	Clay								
1206539	SH-31	E	20-Jun-2011	GG		368461.5	6973810.6	1719	20-30	c	5-10	dark brown	10	20		30	40		weathered bedrock	dry		alpine		ridge top		
1206540	SH-29	E	20-Jun-2011	GG		368451.2	6973706.5	1671	50-60	c	20-25	dark brown		40		40	20		weathered bedrock	moist		alpine		mid slope		
1206541	SH-29	E	20-Jun-2011	GG		368445.5	6973613.3	1632	40-50	c	20-25	dark brown		60		40			weathered bedrock	moist		alpine		mid slope		
1206542	SH-29	E	20-Jun-2011	GG		368434.2	6973512.0	1619	30-40	c	5-10	light brown		50		25	25		talus	moist		alpine		mid slope		
1206543	SH-29	E	20-Jun-2011	GG		368394.2	6973415.0	1583	>80	c	30 up	dark brown		20		60	20		weathered bedrock	moist		alpine		mid slope		
1206544	SH-29	E	20-Jun-2011	GG		368352.2	6973330.4	1561	>80	c	30 up	dark grey		20			30	50	weathered bedrock	moist		alpine		mid slope		
1206545	SH-27	E	20-Jun-2011	GG		368292.3	6973233.9	1587	40-50	c	15-20	light grey		50		40	10		weathered bedrock	wet		alpine		mid slope		
1206546	SH-27	E	20-Jun-2011	GG		368236.5	6973168.7	1636	50-60	c	15-20	dark brown	25	25		40	10		weathered bedrock	dry		alpine		mid slope		
1206547	SH-27	E	20-Jun-2011	GG		368201.5	6973129.3	1667	30-40	b/c	15-20	dark brown	25	25		40	10		weathered bedrock	dry		alpine		mid slope		
1206548	SH-27	E	20-Jun-2011	GG		368072.7	6973025.6	1723	30-40	c	10-15	light brown	20	30		30	20		weathered bedrock	moist		alpine		ridge top		
1206549	SH-40	E	20-Jun-2011	GG		367989.3	6973024.7	1698	30-40	c	15-20	light brown		30		40	30		weathered bedrock	moist		alpine		ridge top		
1206550	SH-40	E	20-Jun-2011	GG		367901.2	6973017.4	1607	50-60	c	25-30	light brown		30		40	30		weathered bedrock	moist		alpine		mid slope		
1206551	SH-40	E	20-Jun-2011	GG		367796.6	6973021.0	1608	60-70	c	30 up		20			40	20	20	weathered bedrock	moist		alpine		mid slope		
1206552	SH-40	E	20-Jun-2011	GG		367690.7	6973021.5	1579	30-40	c	5-10	ash (salt and pepper)		30		50	20		weathered bedrock	dry		alpine		mid slope		
1206553	SH-39	E	20-Jun-2011	GG		367598.5	6973014.5	1568	40-50	c	30 up	dark grey		50		40	10		weathered bedrock	dry		alpine		mid slope		
1206554	SH-39	E	20-Jun-2011	GG		367494.6	6973016.1	1529	40-50	c	20-25	light brown		20		10	30	40	weathered bedrock	frozen		alpine		mid slope		
1206555	SH-39	E	20-Jun-2011	GG		367400.3	6973012.2	1485	50-60	c	20-25	light brown		20		20	30	30	weathered bedrock	moist		alpine		mid slope		
1206556	SH-55	E	21-Jun-2011	GG		366614.7	6974641.4	1474	40-50	c	20-25	light brown		30		20	20	30	weathered bedrock	moist		alpine		ridge top		
1206557	SH-55	E	21-Jun-2011	GG		366516.3	6974607.9	1455	40-50	c	20-25	light brown		40		40	10	10	weathered bedrock	moist		alpine		mid slope		
1206558	SH-55	E	21-Jun-2011	GG		366426.0	6974591.9	1434	>80	c	30 up	light brown		40		40	10	10	weathered bedrock	moist		evergreen forest		mid slope		
1206559	SH-55	E	21-Jun-2011	GG		366324.4	6974589.8	1424	50-60	c	30 up	light brown		40	40		20		weathered bedrock	moist		evergreen forest		mid slope		
1206560	SH-66	E	21-Jun-2011	GG		366219.9	6974606.1	1407	40-50	c	10-15	light grey		40		40		20	weathered bedrock	moist		evergreen forest		mid slope		
1206561	SH-66	E	21-Jun-2011	GG		366122.3	6974621.2	1379	60-70	c	30 up	light brown		40		30	15	15	weathered bedrock	moist		evergreen forest		mid slope		
1206562	SH-66	E	21-Jun-2011	GG		366051.7	6974673.0	1362	60-70	c	15-20	black		40		60			weathered bedrock	moist		evergreen forest		mid slope		
1206563	SH-68	E	21-Jun-2011	GG		365998.6	6974756.9	1333	60-70	c	30 up	light brown		50		40	10		weathered bedrock	moist		evergreen forest		mid slope		
1206564	SH-68	E	21-Jun-2011	GG		365954.1	6974845.7	1291	40-50	c	10-15	light grey		70		30			weathered bedrock	wet		evergreen forest		mid slope		
1206565	SH-68	E	21-Jun-2011	GG		365948.3	6974940.3	1265	50-60	c	30 up	light grey		60		40			weathered bedrock	wet		evergreen forest		mid slope		
1206566	SH-68	E	21-Jun-2011	GG		365933.7	6975041.5	1226	50-60	c	15-20	dark grey				30	50	20	weathered bedrock	frozen		evergreen forest		mid slope		
1206567	SH-68	E	21-Jun-2011	GG		365960.8	6975147.2	1191	50-60	c	30 up	light grey		60		40			weathered bedrock	frozen		evergreen forest		mid slope		
1206568	SH-70	E	21-Jun-2011	GG		366048.0	6975278.0	1146	50-60	c	10-15	dark brown				20	30	50	fluvial	moist		evergreen forest		mid slope	10m from small creek.	
1206569	SH-70	E	21-Jun-2011	GG		366061.4	6975303.2	1137	30-40	b	5-10	dark brown					50	50	weathered bedrock	frozen		evergreen forest		mid slope		
1206570	SH-70	E	21-Jun-2011	GG		366097.9	6975404.4	1117	50-60	b	15-20	dark grey					40	60	weathered bedrock	frozen		evergreen forest		mid slope		
1206701	SH-86	W	18-Jun-2011	SS		359593.9	6973395.5	1534	20-30	b/c	10-15	light brown	10	20		20	25	25	weathered bedrock	moist		alpine		ridge top		
1206702	SH-86	W	18-Jun-2011	SS		359498.6	6973410.1	1483	30-40	c	20-25	dark brown		60		10	20	10	talus	dry		alpine		mid slope		
1206703	SH-85	W	18-Jun-2011	SS		359394.2	6973421.1	1409	50-60	c	30 up	light brown		40		20	20	20	talus	dry		alpine		mid slope		
1206704	SH-85	W	18-Jun-2011	SS		359294.4	6973439.1	1341	40-50	c	30 up	yellowish orange		60		10	20	10	talus	dry		alpine		mid slope		
1206705	SH-85	W	18-Jun-2011	SS		359200.1	6973462.7	1276	40-50	c	30 up	dark brown		50		10	20	10	talus	moist		buck brush		mid slope		
1206706	SH-85	W	18-Jun-2011	SS		359080.5	6973468.3	1221	30-40	c	20-25	dark brown		10	30	20	30	10	weathered bedrock	moist		buck brush		mid slope		
1206707	SH-85	W	18-Jun-2011	SS		358999.8	6973493.2	1188	30-40	c	15-20	light brown		80		10	10		weathered bedrock	moist		evergreen forest		mid slope		
1206708	SH-102	W	18-Jun-2011	SS		358902.8	6973514.6	1159	40-50	b/c	10-15	black	30					70	weathered bedrock	frozen		evergreen forest		mid slope		
1206709	SH-102	W	18-Jun-2011	SS		358806.1	6973534.2	1141	30-40	b/c	10-15	light brown		20			40	40	weathered bedrock	frozen		buck brush		mid slope		
1206710	SH-104	W	18-Jun-2011	SS		358711.7	6973569.5		30-40	b/c	15-20	light brown	20	50		15	10	5	weathered bedrock	moist		buck brush		mid slope		
1206711	SH-104	W	18-Jun-2011	SS		358619.3	6973612.2	1090	50-60	c	30 up	black		30		10	30	30	weathered bedrock	partially frozen		evergreen forest		mid slope		
1206712	SH-104	W	18-Jun-2011	SS		358554.3	6973660.3	1074	40-50	c	30 up	black		20			40	40	weathered bedrock	partially frozen		buck brush		mid slope		
1206713	SH-103	W	18-Jun-2011	SS		358441.5	6973690.3	1047	40-50	b/c	20-25	black	30					70	weathered bedrock	frozen		evergreen forest		mid slope		
1206714	SH-103	W	18-Jun-2011	SS		358370.8	6973767.3	1016	20-30	b/c	15-20	black	20				40	40	weathered bedrock	frozen		evergreen forest		mid slope		
1206715	SH-103	W	18-Jun-2011	SS		358329.8	6973804.2	1008	50-60	c	30 up	black		30			35	35	weathered bedrock	frozen		evergreen forest		mid slope		
1206716	SH-7	E	19-Jun-2011	SS		369908.0	6972760.1	1445	40-50	c	30 up	dark brown		40		20	30	10	weathered bedrock	moist		alpine		mid slope		
1206717	SH-7	E	19-Jun-2011	SS		369976.9	6972687.9	1396	40-50	c	25-30	light grey		30		25	25	20	talus	moist		buck brush		mid slope		
1206718	SH-16	E	19-Jun-2011	SS		369803.2	6972820.1	1469	30-40	c	15-20	light brown		40		30	30		weathered bedrock	moist		alpine		ridge top		

Table 5: Spearhead Property - Soil Sample Descriptions

Sample ID	Quartz Mining Claim	Claim Group (W / NE)	Sample Date	Soil Sampler	Station	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Depth within Sampled Horizon	Sample Colour	Sample Comp. %						Parent Material	Moisture	Content	Vegetation	Cover	Topo	Position	Comment
						Easting	Northing	Elev.					Organics	Ang. Rock	Gravel	Sand	Silt	Clay								
1206719	SH-16	E	19-Jun-2011	SS		369834.4	6972902.0	1465	50-60	c	30 up	light brown		40		30	30		talus	moist		alpine		mid slope		
1206720	SH-7	E	19-Jun-2011	SS		370062.2	6972614.8	1357	20-30	c	15-20	black	10	80				10	weathered bedrock	moist		buck brush		mid slope		
1206721	SH-7	E	19-Jun-2011	SS		370122.0	6972547.0		40-50	c	20-25	dark grey		90			10		talus	wet		buck brush		mid slope		
1206722	SH-16	E	19-Jun-2011	SS		369875.7	6973002.5	1421	20-30	c	15-20	dark brown		70		15	10	5	talus	moist		alpine		mid slope		
1206723	SH-9	E	19-Jun-2011	SS		369916.0	6973093.3	1360	>80	c	30 up	dark brown		80		10	5	5	weathered bedrock	wet		buck brush		mid slope		
1206724	SH-9	E	19-Jun-2011	SS		369966.7	6973178.8	1312	70-80	c	30 up	light grey		20		30	25	25	weathered bedrock	wet		buck brush		mid slope		
1206725	SH-11	E	19-Jun-2011	SS		370012.8	6973274.4	1263	50-60	c	30 up	black		75		10	10	5	weathered bedrock	moist		buck brush		mid slope		
1206726	SH-11	E	19-Jun-2011	SS		370078.2	6973334.2	1230	50-60	c	30 up	light brown				100			till	dry		buck brush		mid slope		Possible glacial moraine.
1206727	SH-11	E	19-Jun-2011	SS		370175.0	6973405.0		30-40	c	20-25	dark brown		50		20	20	10	weathered bedrock	moist		buck brush		mid slope		
1206728	SH-11	E	19-Jun-2011	SS		370246.2	6973450.8	1168	>80	c	30 up	dark grey		10			50	40	weathered bedrock	partially frozen		buck brush		mid slope		
1206729	SH-11	E	19-Jun-2011	SS		370336.6	6973482.3	1145	40-50	c	30 up	dark grey		30		20	25	25	weathered bedrock	moist		buck brush		mid slope		
1206730	SH-12	E	19-Jun-2011	SS		370447.9	6973521.0	1129	50-60	c	30 up	dark brown		20	15	25	25	15	weathered bedrock	moist		evergreen forest		mid slope		
1206731	SH-12	E	19-Jun-2011	SS		370526.5	6973561.3	1116	50-60	c	30 up	light brown		30		30	20	20	weathered bedrock	wet		buck brush		valley bottom		
1206732	SH-31	E	20-Jun-2011	SS		368274.2	6973879.9	1699	40-50	c	20-25	black	20	40		10	15	15	talus	moist		alpine		ridge top		
1206733	SH-31	E	20-Jun-2011	SS		368220.2	6973940.4	1668	30-40	c	15-20	light brown	10	60			20	10	talus	moist		alpine		ridge top		
1206734	SH-31	E	20-Jun-2011	SS		368175.2	6974062.5	1601	10-20	c	5-10	dark grey		80				20	talus	wet		alpine		ridge top		
1206735	SH-31	E	20-Jun-2011	SS		368389.5	6974165.9	1466	30-40	c	30 up	dark grey		90				10	talus	moist		alpine		mid slope		middle of talus slope
1206736	SH-33	E	20-Jun-2011	SS		368320.7	6974227.4	1438																		
1206737	SH-33	E	20-Jun-2011	SS		368248.7	6974317.2	1434	30-40	c	30 up	dark grey		80			10	10	talus	moist		alpine		mid slope		
1206738	SH-33	E	20-Jun-2011	SS		368181.4	6974367.6	1471	40-50	c	30 up	dark grey		80			10	10	talus	moist		alpine		mid slope		
1206739	SH-46	E	20-Jun-2011	SS		368077.9	6974402.8	1516	20-30	c	30 up	dark brown		90				10	talus	moist		alpine		ridge top		
1206740	SH-46	E	20-Jun-2011	SS		367986.3	6974423.7	1484	20-30	c	30 up	light brown		80				20	talus	moist		alpine		mid slope		
1206741	SH-46	E	20-Jun-2011	SS		367893.1	6974473.2	1445	70-80	c	30 up	dark grey		30			45	25	weathered bedrock	moist		alpine		mid slope		
1206742	SH-46	E	20-Jun-2011	SS		367798.6	6974499.0	1409	40-50	c	30 up	dark brown		80			20		weathered bedrock	moist		evergreen forest		mid slope		
1206743	SH-46	E	20-Jun-2011	SS		367711.6	6974538.6	1361	40-50	c	30 up	dark grey		80			10	10	weathered bedrock	moist		evergreen forest		mid slope		
1206744	SH-45	E	20-Jun-2011	SS		367608.8	6974571.0	1327	10-20	c	5-10	light grey	10	20		50	20		weathered bedrock	moist		evergreen forest		mid slope		
1206745	SH-45	E	20-Jun-2011	SS		367522.7	6974611.7	1285	40-50	c	30 up	dark grey		30		30	20	20	weathered bedrock	moist		evergreen forest		mid slope		
1206746	SH-47	E	20-Jun-2011	SS		367477.0	6974673.4	1273	50-60	c	30 up	light brown				50	25	25	weathered bedrock	moist		evergreen forest		mid slope		
1206747	SH-47	E	20-Jun-2011	SS		367457.4	6974781.6	1252	30-40	c	30 up	dark brown		30	10	20	20	20	weathered bedrock	moist		evergreen forest		mid slope		
1206748	SH-32	E	21-Jun-2011	SS		368610.1	6974145.7	1494	30-40	c	15-20	black		80			10	10	talus	moist		alpine		mid slope		
1206749	SH-34	E	21-Jun-2011	SS		368627.1	6974244.2	1453	0-10	c	5-10	dark grey				20	50	30	weathered bedrock	moist		alpine		mid slope		
1206750	SH-34	E	21-Jun-2011	SS		368668.4	6974350.6	1381	30-40	c	30 up	dark grey		40		30	30		talus	moist		alpine		mid slope		
1206751	SH-34	E	21-Jun-2011	SS		368722.9	6974415.6	1367	30-40	c	30 up	dark grey		70		10	10	10	talus	moist		alpine		mid slope		
1206752	SH-34	E	21-Jun-2011	SS		368784.3	6974493.7	1384	50-60	c	30 up	light brown		40		10	20	30	weathered bedrock	moist		evergreen forest		mid slope		
1206753	SH-34	E	21-Jun-2011	SS		368861.7	6974576.4	1392	>80	c	30 up	black				40	40	20	weathered bedrock	partially frozen		evergreen forest		mid slope		
1206754	SH-36	E	21-Jun-2011	SS		368920.0	6974649.9	1352	30-40	c	30 up	black		50		10	20	20	talus	moist		evergreen forest		mid slope		
1206755	SH-36	E	21-Jun-2011	SS		368939.8	6974730.5	1349	40-50	c	30 up	dark grey		40		10	30	20	weathered bedrock	moist		buck brush		mid slope		
1206756	SH-36	E	21-Jun-2011	SS		368980.9	6974835.1	1318	50-60	c	30 up	black				90	10		weathered bedrock	partially frozen		buck brush		mid slope		
1206757	SH-36	E	21-Jun-2011	SS		369003.6	6974914.6	1249	70-80	c	30 up	dark brown	30			40	20	10	talus	moist		buck brush		mid slope		
1206758	SH-38	E	21-Jun-2011	SS		369020.6	6975047.7	1187	50-60	c	30 up	light grey		30		30	20	20	talus	moist		buck brush		mid slope		
1206759	SH-25	E	21-Jun-2011	SS		369058.4	6975115.6	1143	40-50	c	30 up	light grey		30		20	30	20	weathered bedrock	moist		evergreen forest		mid slope		
1206760	SH-25	E	21-Jun-2011	SS		369117.5	6975241.9	1103	70-80	c	30 up	black		10		20	35	35	weathered bedrock	saturated		marsh		valley bottom		
1206761	SH-25	E	21-Jun-2011	SS		369128.0	6975300.3	1107	40-50	c	30 up	yellowish orange		20		50	20		weathered bedrock	wet		buck brush		valley bottom		
1206762	SH-25	E	21-Jun-2011	SS		369154.7	6975373.2	1092	40-50	c	30 up	light brown		20		20	30	30	weathered bedrock	saturated		buck brush		valley bottom		
1206763	SH-27	E	22-Jun-2011	SS		368156.1	6972970.2	1727	40-50	c	30 up	dark brown		20		30	20	30	weathered bedrock	moist		alpine		ridge top		
1206901	SH-86	W	18-Jun-2011	AB		359690.3	6973465.8	1519	30-40	c	15-20	light brown		30			35	35	weathered bedrock	moist		alpine		mid slope		
1206902	SH-86	W	18-Jun-2011	AB		359706.8	6973387.8	1532	30-40	c	15-20	olive grey		15			40	45	weathered bedrock	moist		alpine		plateau		
1206903	SH-86	W	18-Jun-2011	AB		359713.6	6973303.3	1522	30-40	c	15-20	dark grey		40			30	30	weathered bedrock	moist		alpine		ridge top		
1206904	SH-86	W	18-Jun-2011	AB		359716.2	6973190.2	1510	30-40	c	15-20	light brown		90			5	5	weathered bedrock	dry		alpine		mid slope		
1206905	SH-86	W	18-Jun-2011	AB		359718.4	6973092.7	1504	30-40	c	15-20	light brown		80			10	10	weathered bedrock	dry		alpine		mid slope		
1206906	SH-84	W	18-Jun-2011	AB		359710.3	6972984.2	1504	40-50	c	15-20	light grey		80			10	10	weathered bedrock	moist		alpine		ridge top		
1206907	SH-84	W	18-Jun-2011	AB		359696.3	6972860.6	1493	30-40	c	20-25	dark grey		20			40	40	weathered bedrock	moist		alpine		bench		

Table 5: Spearhead Property - Soil Sample Descriptions

Sample ID	Quartz Mining Claim	Claim Group (W / NE)	Sample Date	Soil Sampler	Station	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Depth within Sampled Horizon	Sample Colour	Sample Comp. %						Parent Material	Moisture	Content	Vegetation	Cover	Topo	Position	Comment
						Easting	Northing	Elev.					Organics	Ang. Rock	Gravel	Sand	Silt	Clay								
1206908	SH-84	W	18-Jun-2011	AB		359697.0	6972773.2	1477	30-40	c	15-20	dark brown		10			45	45	weathered bedrock	moist		buck brush		plateau		
1206909	SH-84	W	18-Jun-2011	AB		359698.1	6972729.7	1471	10-20	c	15-20	dark grey		5			45	50	weathered bedrock	wet		alpine		plateau		
1206910	SH-84	W	18-Jun-2011	AB		359699.8	6972684.9	1484	20-30	c	15-20	light brown		10			30	60	weathered bedrock	moist		alpine		plateau		
1206911	SH-84	W	18-Jun-2011	AB		359699.7	6972619.5	1475	20-30	c	15-20	light grey		10			30	60	weathered bedrock	moist		alpine		ridge top		
1206912	SH-82	W	18-Jun-2011	AB		359682.9	6972494.7	1458	20-30	c	15-20	light brown		20			30	50	weathered bedrock	moist		alpine		mid slope		
1206913	SH-82	W	18-Jun-2011	AB		359666.7	6972393.0	1449	20-30	c	15-20	yellowish orange		80			5	15	weathered bedrock	dry		alpine		bench		
1206914	SH-82	W	18-Jun-2011	AB		359641.8	6972284.5	1444	30-40	c	15-20	dark grey		20			10	70	weathered bedrock	moist		buck brush		bench		
1206915	SH-82	W	18-Jun-2011	AB		359622.9	6972199.8	1437	30-40	C	15-20	dark grey		10			30	60	weathered bedrock	moist		buck brush		plateau		
1206916	SH-21	E	19-Jun-2011	AB		369087.0	6974238.3	1598	30-40	c	15-20	light brown		30			35	35	weathered bedrock	moist		alpine		ridge top		
1206917	SH-34	E	19-Jun-2011	AB		368991.9	6974209.7	1583	40-50	c	15-20	dark grey		50		20	15	15	weathered bedrock	moist		alpine		ridge top		
1206918	SH-34	E	19-Jun-2011	AB		368949.5	6974171.6	1564	40-50	c	15-20	dark grey		30	30		20	20	weathered bedrock	moist		alpine		mid slope		
1206919	SH-32	E	19-Jun-2011	AB		368909.3	6974143.6	1551	40-50	c	15-20	dark grey		60		30	5	5	weathered bedrock	moist		alpine		ridge top		
1206920	SH-32	E	19-Jun-2011	AB		368853.8	6974112.5	1530	30-40	c	15-20	dark grey		60		30	5	5	weathered bedrock	moist		alpine		mid slope		
1206921	SH-21	E	19-Jun-2011	AB		369165.6	6974232.2	1564	20-30	c	15-20	dark brown		30			35	35	weathered bedrock	moist		alpine		mid slope		
1206922	SH-21	E	19-Jun-2011	AB		369264.1	6974245.6	1531	20-30	c	15-20	dark brown		40			30	30	weathered bedrock	moist		alpine		mid slope		
1206923	SH-21	E	19-Jun-2011	AB		369357.1	6974249.9	1503	30-40	c	15-20	light brown		10			45	45	weathered bedrock	moist		alpine		bench		
1206924	SH-21	E	19-Jun-2011	AB		369448.4	6974243.4	1469	10-20	c	10-15	light brown		80			10	10	talus	moist		alpine		ridge top		
1206925	SH-22	E	19-Jun-2011	AB		369563.6	6974261.2	1412	30-40	c	15-20	dark grey		80			20	20	weathered bedrock	moist		alpine		mid slope		
1206926	SH-22	E	19-Jun-2011	AB		369654.8	6974242.6	1364	20-30	c	15-20	light grey		50			25	25	weathered bedrock	moist		alpine		mid slope		
1206927	SH-22	E	19-Jun-2011	AB		369757.4	6974210.9	1297	10-20	c	10-15	orange		70			15	15	weathered bedrock	dry		alpine		mid slope		
1206928	SH-22	E	19-Jun-2011	AB		369862.3	6974190.0	1252	50-60	c	15-20	light brown		40			30	30	weathered bedrock	moist		buck brush		bench		
1206929	SH-22	E	19-Jun-2011	AB		369922.0	6974161.4	1227	50-60	c	15-20	orange		20			40	40	weathered bedrock	moist		buck brush		bench		
1206930	n/a	E	19-Jun-2011	AB		370043.2	6974088.0	1197	60-70	c	20-25	dark grey					50	50	weathered bedrock	wet		buck brush		valley bottom		
1206931	n/a	E	19-Jun-2011	AB		370121.4	6974086.9	1172	60-70	c	15-20	white					50	50	weathered bedrock	wet		buck brush		bench		
1206932	n/a	E	19-Jun-2011	AB		370242.0	6974079.3	1135	20-30	c	10-15	dark brown		80			10	10	weathered bedrock	moist		buck brush		bench		
1206933	n/a	E	19-Jun-2011	AB		370308.9	6974085.5	1125	30-40	c	15-20	light brown		20			40	40	weathered bedrock	moist		buck brush		bench		
1206934	SH-51	E	20-Jun-2011	AB		366646.9	6973404.7	1488	70-80	c	25-30	light grey		60			20	20	weathered bedrock	moist		alpine		ridge top		
1206935	SH-51	E	20-Jun-2011	AB		366691.6	6973480.3	1465	70-80		30 up	dark grey		100					talus	moist		alpine		mid slope		
1206936	SH-52	E	20-Jun-2011	AB		366727.8	6973580.8	1438	30-40	c	15-20	light brown		90			5	5	weathered bedrock	moist		buck brush		mid slope		
1206937	SH-52	E	20-Jun-2011	AB		366775.6	6973653.7	1416	40-50	c	20-25	dark grey		90			5	5	talus	moist		evergreen forest		mid slope		
1206938	SH-52	E	20-Jun-2011	AB		366806.4	6973762.4	1384	30-40	c	20-25	dark grey		80			10	10	weathered bedrock	moist		evergreen forest		mid slope		
1206939	SH-54	E	20-Jun-2011	AB		366843.1	6973838.6	1382	40-50	c	20-25	dark grey		70			15	15	weathered bedrock	moist		evergreen forest		mid slope		
1206940	SH-54	E	20-Jun-2011	AB		366879.1	6973954.3	1376																		
1206941	SH-54	E	20-Jun-2011	AB		366872.2	6974043.6	1341	20-30	c	15-20	dark brown	30	20			25	25	weathered bedrock	moist		buck brush		mid slope		
1206942	SH-54	E	20-Jun-2011	AB		366873.4	6974142.1	1348	30-40	c	20-25	light grey		30			35	35	weathered bedrock	moist		evergreen forest		bench		
1206943	SH-56	E	20-Jun-2011	AB		366875.9	6974243.1	1339	30-40	b/c	20-25	dark brown	10	20			35	35	weathered bedrock	wet		evergreen forest		mid slope		
1206944	SH-56	E	20-Jun-2011	AB		366895.2	6974345.0	1334	30-40	b/c	20-25	ash (salt and	10	10			40	40	loess	moist		evergreen forest		mid slope		
1206945	SH-56	E	20-Jun-2011	AB		366913.2	6974453.9	1333	50-60	c	20-25	ash (salt and		30			35	35	weathered bedrock	wet		evergreen forest		mid slope		
1206946	SH-56	E	20-Jun-2011	AB		366969.6	6974566.8	1292	20-30	c	15-20	light grey		10			45	45	weathered bedrock	wet		evergreen forest		mid slope		
1206947	SH-56	E	20-Jun-2011	AB		366987.4	6974668.7	1258	20-30	c	20-25	dark grey		30			35	35								
1206948	SH-58	E	20-Jun-2011	AB		366989.8	6974744.0	1249	30-40	c	15-20	light grey		50			25	25	weathered bedrock	wet		evergreen forest		mid slope		
1206949	SH-58	E	20-Jun-2011	AB		366959.4	6974864.5	1242	20-30	c	15-20	dark grey		80			10	10	weathered bedrock	wet		evergreen forest		mid slope		
1206950	SH-61	E	21-Jun-2011	AB		365688.9	6973448.2	1419	20-30	c	15-20	light brown		50			25	25	weathered bedrock	moist		evergreen forest		mid slope		
1206951	SH-61	E	21-Jun-2011	AB		365623.4	6973529.9	1393	20-30	c	15-20	light brown		50			25	25	weathered bedrock	wet		evergreen forest		mid slope		
1206952	SH-61	E	21-Jun-2011	AB		365551.6	6973653.9	1365	20-30	c	15-20	light brown		50			25	25	weathered bedrock	moist		evergreen forest		mid slope		
1206953	SH-61	E	21-Jun-2011	AB		365516.8	6973747.6	1357	20-30	b/c	15-20	dark grey		30			35	35	weathered bedrock	wet		evergreen forest		mid slope		
1206954	SH-61	E	21-Jun-2011	AB		365474.0	6973834.4	1345	20-30	b/c	10-15	dark brown	10	10			40	40	weathered bedrock	moist		evergreen forest		mid slope		
1206955	SH-63	E	21-Jun-2011	AB		365429.1	6973923.2	1336	>80		15-20	light brown		10			45	45	weathered bedrock	wet		evergreen forest		mid slope		
1206956	SH-63	E	21-Jun-2011	AB		365387.4	6974011.3	1315	10-20	c	10-15	dark grey		30			35	35	weathered bedrock	wet		evergreen forest		mid slope		
1206957	SH-72	E	21-Jun-2011	AB		365344.9	6974111.3	1285	20-30	c	10-15	light grey							weathered bedrock	moist		evergreen forest		mid slope		
1206958	SH-72	E	21-Jun-2011	AB		365315.7	6974197.6	1270	60-70	c	15-20	light grey		40			30	30	weathered bedrock	wet		evergreen forest		bench		
1206959	SH-72	E	21-Jun-2011	AB		365271.9	6974277.1	1241	10-20	c	10-15	dark grey	5			20	50	25	fluvial	saturated		buck brush		valley bottom	Vegetated chute with stream.	

Table 5: Spearhead Property - Soil Sample Descriptions

Sample ID	Quartz Mining Claim	Claim Group (W / NE)	Sample Date	Soil Sampler	Station	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Depth within Sampled Horizon	Sample Colour	Sample Comp. %						Parent Material	Moisture	Content	Vegetation	Cover	Topo	Position	Comment
						Easting	Northing	Elev.					Organics	Ang. Rock	Gravel	Sand	Silt	Clay								
1206960	SH-74	E	21-Jun-2011	AB		365216.2	6974373.2	1226	40-50	c	15-20	light grey	5	5			45	45	weathered bedrock	moist		evergreen forest		bench		
1206961	SH-74	E	21-Jun-2011	AB		365179.9	6974460.8	1210	50-60	c	20-25	dark grey		50			25	25	weathered bedrock	wet		evergreen forest		mid slope		
1206962	SH-74	E	21-Jun-2011	AB		365128.1	6974559.7	1188	30-40	c	15-20	dark brown		25			40	30	weathered bedrock	moist		evergreen forest		mid slope		
1206963	SH-74	E	21-Jun-2011	AB		365084.7	6974650.5	1165	20-30	c	15-20	light grey		10			45	45	weathered bedrock	wet		evergreen forest		mid slope		
1206964	SH-74	E	21-Jun-2011	AB		364968.7	6974699.5	1157	20-30	c	15-20	light brown					50	50	weathered bedrock	wet		evergreen forest		bench		
1207101	SH-34	E	19-Jun-2011	MG		369009.3	6974184.3	1598																		From 3.5m wide zone of soils from grey and less dense cherts. Bleached? Alterations? Soils tan to very light brown in colour, well developed recessive weathering.
1207102	SH-32	E	19-Jun-2011	MG		368980.1	6974149.8	1582																		Tan and black clay soils from saddle. Zone of recessive weatering. Good materials.
1207103	SH-21	E	19-Jun-2011	MG		369069.5	6974212.7	1588																		Black soils some clay developed. Soils from black chert with qvs. Small saddle, zone of recessive weathering?
1207104	SH-21	E	19-Jun-2011	MG		369074.9	6974167.7	1569																		Orange brown soils. Some angular clasts. Good material. Steep slope near top.
1207105	SH-19	E	19-Jun-2011	MG		369019.6	6974101.1	1547																		Black clay soils with rare angular clasts. Steep slope.
1207106	SH-32	E	19-Jun-2011	MG		368985.4	6974062.3	1532																		Black very black mix of black clay soils and tallus fines. Steep.
1207107	SH-32	E	19-Jun-2011	MG		368965.5	6974038.4	1525																		mix of black and dark grey clays/soils and tallus fines. Steep slope.
1207108	SH-32	E	19-Jun-2011	MG		368944.9	6973977.1	1518																		Black soil/clay and tallus fines. Steep.
1207109	SH-17	E	20-Jun-2011	MG		369076.4	6973601.9	1525				orange														Poorly developed soils from calc-silicateé qtz ba ricks. Moderate steep slope. Tan orange colour.
1207110	SH-32	E	21-Jun-2011	MG		368625.9	6973768.3	1699				Black														Jet black goo. Dry, sticky, possibly graphitic.
1207111	SH-32	E	21-Jun-2011	MG		368493.9	6972954.9	1605				Black														Black sticky clays from over black shale with QV or Ca along partings.
1207112	n/a	E	22-Jun-2011	MG		368319.8	6972726.5	1659		b		dark grey														Clay dark grey from cherts. B Hz. Slope is moderate.
1207251	n/a	E	19-Jun-2011	ED		369723.2	6972287.0	1370	30-40	c	20-25	Light brown		40			30	30	weathered bedrock	dry		evergreen forest		mid slope		Filling in for steep line below.
1207252	SH-3	E	19-Jun-2011	ED		370149.8	6971647.2	1200	20-30	c	10-15	Light brown		40			30	30	weathered bedrock	dry		evergreen forest		mid slope		
1207253	SH-43	E	20-Jun-2011	ED		367299.3	6974104.8	1276	20-30	c	10-15	light brown		10			40	50	weathered bedrock	saturated		evergreen forest		mid slope		

Table 6: Spearhead Property - Soil Sample Results



Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.01	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	Te ppm 0.2
	Easting	Northing	Elev.																																					
1206501	359019	6971264	1545	W	2.9	52.8	26.7	113	0.1	23.5	22.2	4640	2.8	16.6	2.1	0.7	15	0.7	1	0.4	27	0.06	0.086	6	13	0.18	380	0.008	2	0.88	0.006	0.09	<0.1	0.06	1.7	0.2	<0.05	3	0.7	<0.2
1206502	358991	6971353	1524	W	2.6	29.5	19.5	89	<0.1	18.3	11.3	1120	3.13	23	3.2	0.8	10	0.3	1.5	0.5	46	0.04	0.075	8	22	0.21	188	0.009	3	1.01	0.004	0.11	0.2	0.04	1.1	0.1	<0.05	5	0.6	<0.2
1206503	358957	6971442	1505	W	3.1	41.5	17.1	96	<0.1	24.4	12.1	703	3.06	40.1	2.8	1.5	13	0.3	2.2	0.8	49	0.07	0.071	10	25	0.32	274	0.012	3	1.28	0.005	0.12	0.4	0.04	2.3	0.2	<0.05	5	1.2	<0.2
1206504	358929	6971542	1498	W	4.4	39.6	14.7	87	0.1	17.1	4.1	142	2.34	11	3.0	0.6	15	0.3	1.4	0.3	47	0.04	0.069	5	17	0.16	268	0.005	3	0.83	0.003	0.13	<0.1	0.09	1.2	0.2	<0.05	4	1.1	<0.2
1206505	358884	6971635	1479	W	3.8	54.6	22.4	144	0.2	34.9	13.1	442	3.53	19.2	3.2	2.1	24	0.4	2.2	0.5	44	0.05	0.084	8	25	0.34	263	0.01	3	1.24	0.004	0.14	0.2	0.07	2.1	0.3	0.06	4	1.4	<0.2
1206506	358840	6971721	1448	W	2.5	36.8	9.4	51	0.3	10.1	3.6	125	1.62	22.1	2.1	0.4	12	0.2	1.3	0.6	60	0.08	0.058	9	17	0.15	224	0.017	2	0.89	0.009	0.08	0.3	0.04	1	0.2	<0.05	5	1	<0.2
1206507	358792	6971809	1415	W	3.7	47.6	18.5	132	0.4	27.1	11.6	634	3.04	65.3	5.6	3.4	22	0.4	3	0.9	51	0.12	0.118	11	25	0.32	234	0.02	2	1.44	0.006	0.12	0.5	0.09	2.2	0.2	<0.05	5	1.4	<0.2
1206508	358744	6971894	1373	W	2.6	31.4	13.8	87	0.2	18	6	205	2.35	16	1.6	0.7	13	0.2	1.6	0.3	44	0.04	0.057	7	16	0.17	145	0.012	2	0.81	0.006	0.09	0.2	0.03	1.1	0.1	<0.05	4	1.3	<0.2
1206509	358690	6971980	1323	W	1.1	16.6	4.1	20	0.2	4.4	1.4	47	0.71	10.9	8.2	<0.1	7	0.2	0.5	1.8	27	0.02	0.025	4	5	0.05	111	0.013	1	0.39	0.014	0.04	0.4	0.03	0.2	<0.1	<0.05	3	<0.5	<0.2
1206510	358636	6972066	1296	W	2.8	33.4	16.4	105	<0.1	23.4	7.3	194	3.1	27	3.9	3.2	11	0.2	1.9	0.5	61	0.04	0.036	10	22	0.26	164	0.016	2	1.4	0.005	0.09	0.2	0.02	1.9	0.2	<0.05	6	1.1	<0.2
1206511	358595	6972155	1268	W	2.4	23.4	12	60	0.1	12.9	4.1	114	2.35	17.3	1.7	0.8	10	<0.1	1.2	0.5	49	0.02	0.05	7	14	0.1	106	0.011	2	0.78	0.004	0.08	0.2	0.02	0.9	0.1	<0.05	5	0.6	<0.2
1206512	358550	6972246	1234	W	2.4	29.9	13.8	79	0.2	16.4	6.8	181	2.75	15.1	1.1	2.0	19	0.3	1.3	0.4	36	0.07	0.042	6	15	0.15	381	0.002	1	0.92	0.005	0.11	<0.1	0.02	1.6	0.1	<0.05	4	0.8	<0.2
1206513	358508	6972335	1215	W	3.4	44.6	16.5	117	0.4	27.5	8.1	223	3.22	24.5	4.7	3.5	13	0.3	1.7	0.5	52	0.03	0.069	7	24	0.23	168	0.005	3	1.65	0.005	0.11	0.2	0.08	2.3	0.3	<0.05	5	1	<0.2
1206514	358457	6972410	1180	W	0.7	14.3	4.4	22	0.2	4.7	2.4	112	0.73	3.3	0.3	0.1	6	0.2	0.4	0.1	19	0.03	0.025	3	5	0.03	102	0.006	2	0.48	0.018	0.05	<0.1	0.03	0.4	<0.1	<0.05	2	<0.5	<0.2
1206515	358391	6972494	1162	W	1.8	46.2	15.1	94	0.7	34.3	7.1	310	1.93	12.4	2.7	1.5	33	0.7	0.7	0.5	40	0.28	0.069	7	14	0.21	500	0.004	1	1.16	0.013	0.11	0.1	0.17	1.8	0.2	<0.05	3	1.5	<0.2
1206516	358320	6972565	1137	W	2.1	23.4	12	77	0.1	11.6	5	191	1.91	11.2	0.6	1.0	10	0.3	1.1	0.3	42	0.03	0.039	7	12	0.11	102	0.012	2	0.7	0.006	0.08	0.1	0.01	0.9	0.1	<0.05	5	0.5	<0.2
1206517	358241	6972623	1120	W	1.8	24.7	8.1	58	0.2	8.8	3.4	112	1.47	15.6	2.5	0.6	8	0.3	1.1	0.3	36	0.03	0.029	4	9	0.05	126	0.008	1	0.54	0.009	0.08	0.1	0.03	0.8	0.1	<0.05	4	<0.5	<0.2
1206518	358159	6972676	1099	W	2.7	32.5	18	116	0.3	25.5	9.4	438	2.77	13.2	4.6	2.5	15	0.5	1.7	0.3	51	0.06	0.064	7	19	0.15	129	0.013	<1	1.24	0.007	0.09	0.1	0.05	1.6	0.2	<0.05	4	0.7	<0.2
1206519	358077	6972740	1080	W	0.8	33.9	4.7	38	0.8	39.6	3	297	0.74	3.1	5.7	0.4	48	0.3	0.6	0.1	16	0.48	0.062	4	7	0.12	335	0.008	3	0.72	0.026	0.07	<0.1	0.19	1.3	0.1	0.06	2	3.4	<0.2
1206520	357991	6972795	1067	W	0.8	54.2	7	39	0.6	28.3	4	197	1.09	3.8	3.4	0.4	61	0.4	0.5	0.2	21	0.71	0.064	5	9	0.12	497	0.009	2	0.87	0.015	0.06	<0.1	0.16	1.2	<0.1	0.07	3	2.3	<0.2
1206521	357910	6972853	1071	W	3.1	28.8	16	125	0.2	16.6	8.1	360	2.66	12	0.3	1.3	11	0.4	1.9	0.4	34	0.05	0.069	4	13	0.12	131	0.005	1	0.63	0.003	0.08	<0.1	0.04	1.2	0.2	<0.05	3	1.3	<0.2
1206522	357826	6972913	1048	W	3.9	38.3	25.7	176	0.2	26.3	18.3	1182	3.99	17.7	3.3	1.2	16	1	2.6	0.3	55	0.06	0.109	7	19	0.19	188	0.008	2	1.12	0.004	0.1	0.1	0.05	1.6	0.2	<0.05	5	1.8	<0.2
1206523	370199	6972483	1310	E	7.3	135.3	7.2	7	3.2	11.6	0.5	12	0.62	3	5.2	1.2	6	0.1	5	0.2	105	0.01	0.026	4	54	0.02	410	<0.001	1	0.45	0.001	0.06	<0.1	0.67	2.2	<0.1	<0.05	2	9.6	0.3
1206524	370269	6972412	1283	E	3.8	26	8.3	41	1	8.6	2.5	46	1.14	10	0.7	0.1	24	0.1	1.9	0.2	38	0.02	0.044	5	9	0.01	587	0.006	<1	0.55	0.009	0.04	0.1	0.06	0.3	<0.1	<0.05	3	2	<0.2
1206525	370343	6972340	1260	E	10.8	32.5	19.2	57	3.7	10.5	2	63	2.02	22.7	3.7	0.1	74	0.1	8	0.3	181	0.03	0.112	8	25	0.02	406	0.004	<1	0.4	0.006	0.11	<0.1	0.1	0.4	0.3	0.1	5	14.9	0.3
1206526	370399	6972256	1247	E	5.6	33.6	10.4	94	2.1	20.6	5	113	2.44	16.5																										

Table 6: Spearhead Property - Soil Sample Results

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Easting	Northing	Elev.		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1	ppm 1	% 0.01	ppm 1	% 0.001	ppm 1	% 0.01	% 0.001	% 0.01	ppm 0.1	ppm 0.01	ppm 0.1	ppm 0.1	% 0.05	ppm 1	ppm 0.5	ppm 0.2
1206542	368434	6973512	1619	E	1.9	64.9	13.8	83	0.3	17.8	4.4	114	3.25	16.4	3.8	0.4	11	<0.1	2.7	0.2	34	0.02	0.058	3	20	0.04	414	0.004	2	0.66	0.007	0.07	0.1	0.1	1.7	0.2	<0.05	3	2.2	<0.2
1206543	368394	6973415	1583	E	28	61.9	21.8	184	0.9	77.7	26.9	1414	4.46	31.3	5.9	5.0	26	1.4	2.3	0.2	34	0.17	0.16	9	16	0.37	557	0.003	2	0.99	0.004	0.09	<0.1	0.7	3.6	1.1	<0.05	2	3.4	<0.2
1206544	368352	6973330	1561	E	1.3	22.4	14.5	81	0.2	31.3	11	346	2.74	9.6	1.2	3.6	27	0.4	0.7	0.2	16	0.61	0.16	13	16	0.37	695	0.002	2	1.05	0.004	0.09	<0.1	0.11	4.1	0.1	<0.05	3	0.6	<0.2
1206545	368292	6973234	1587	E	2	19.3	8.2	27	0.5	6.1	2.2	105	1	6.6	3.1	0.2	13	<0.1	1.2	<0.1	24	0.08	0.049	2	12	0.03	405	0.011	<1	0.33	0.016	0.05	<0.1	0.09	0.6	<0.1	<0.05	2	1.7	<0.2
1206546	368237	6973169	1636	E	8.2	41.2	17.9	89	0.4	24	7.3	142	2.49	16.6	3.9	0.3	37	0.1	1.2	0.3	26	0.01	0.134	10	13	0.03	437	0.001	1	0.45	0.004	0.08	<0.1	0.12	0.5	0.3	<0.05	2	2.3	<0.2
1206547	368201	6973129	1667	E	7.5	75.4	22.3	72	1.0	28.3	9.1	382	3.08	16.8	9.3	3.2	52	0.2	1.7	0.3	27	0.09	0.147	12	19	0.04	989	0.001	3	0.52	0.003	0.09	0.1	0.37	3.4	0.3	<0.05	2	4.1	<0.2
1206548	368073	6973026	1723	E	1	13.5	5.1	26	0.2	4.5	1.9	49	0.87	3.2	0.7	<0.1	7	0.2	0.5	<0.1	29	0.05	0.047	3	9	0.03	70	0.01	<1	0.41	0.012	0.02	<0.1	0.04	0.1	<0.1	<0.05	2	0.8	<0.2
1206549	367989	6973025	1698	E	1.5	36.5	8.1	31	0.2	4.9	1.4	33	1.3	10	2.9	0.2	11	0.1	1.3	0.2	43	0.03	0.048	8	14	0.02	357	0.007	<1	0.48	0.006	0.03	0.2	0.07	0.4	0.1	<0.05	3	1.8	<0.2
1206550	367901	6973017	1607	E	2	38.2	14.1	24	1.1	5.3	0.9	34	1.43	11.7	5.4	0.4	17	<0.1	2.1	0.2	34	0.01	0.036	5	16	0.03	745	0.003	2	0.49	0.003	0.09	0.2	0.4	0.9	0.2	<0.05	3	2.6	<0.2
1206551	367797	6973021	1608	E	3.5	45.4	13.6	36	0.8	9	3	134	2.04	16.1	11.2	0.4	22	0.1	2.7	0.2	51	0.03	0.057	7	21	0.1	523	0.004	<1	0.63	0.003	0.06	0.2	0.36	1.1	0.2	<0.05	3	3.4	<0.2
1206552	367691	6973021	1579	E	11.1	34.9	16.0	59	0.9	14.5	2.6	81	1.68	14.8	6.9	0.7	62	0.2	5.3	0.3	87	0.14	0.162	15	17	0.1	661	0.006	3	0.64	0.006	0.1	0.4	0.23	1.4	0.7	<0.05	2	5.7	<0.2
1206553	367599	6973014	1568	E	35.8	21.9	18.5	55	1.4	9.6	1.3	33	1.82	33.8	4.7	0.8	150	0.5	12.8	0.2	138	0.06	0.12	17	14	0.04	711	0.004	3	0.44	0.007	0.18	0.3	0.31	0.8	3.5	0.26	2	7.8	<0.2
1206554	367495	6973016	1529	E	16.8	22.4	19.4	59	0.9	14.7	1.7	41	1.81	25.6	4.3	0.8	64	0.3	7.5	0.3	84	0.06	0.11	19	13	0.03	806	0.002	3	0.5	0.007	0.1	0.1	0.5	0.9	1.5	0.07	2	4.9	<0.2
1206555	367400	6973012	1485	E	8.1	19.5	12.1	57	0.3	13.1	2.3	50	1.52	16.7	1.2	0.1	29	0.2	3.8	0.2	50	0.02	0.082	13	9	0.03	356	0.002	<1	0.46	0.007	0.07	0.2	0.12	0.2	0.6	<0.05	2	2.4	<0.2
1206556	366615	6974641	1474	E	4	28.6	14.2	78	0.2	13.9	4.1	204	1.9	11.3	4.8	<0.1	18	<0.1	1.6	0.4	58	0.02	0.067	9	12	0.06	122	0.005	1	0.62	0.007	0.06	<0.1	0.02	0.1	0.2	<0.05	5	0.9	<0.2
1206557	366516	6974608	1455	E	4.2	25.3	12.4	72	0.6	15.7	4.5	163	2.35	17.4	5.4	1.2	17	0.1	2.1	0.3	63	0.03	0.055	9	21	0.16	158	0.025	1	0.75	0.005	0.07	0.1	0.05	1.1	0.2	<0.05	5	1.8	<0.2
1206558	366426	6974592	1434	E	4.2	34.6	12.1	83	0.7	20.7	7.2	441	2.57	15.1	3.0	0.8	25	0.3	2	0.3	66	0.04	0.062	11	25	0.21	222	0.017	2	0.91	0.006	0.09	0.2	0.04	1.2	0.2	<0.05	5	1.2	<0.2
1206559	366324	6974590	1424	E	5.9	38.3	17.4	85	1.8	16.9	4.1	133	2.37	24.3	2.9	1.0	70	0.2	2.8	0.3	78	0.03	0.065	9	27	0.1	441	0.013	2	0.68	0.005	0.11	0.2	0.04	1.4	0.2	0.14	5	4.4	<0.2
1206560	366220	6974606	1407	E	12.7	26.9	16.1	114	1.1	19.5	2.9	63	1.66	13.1	0.3	0.4	34	0.5	3.4	0.3	86	0.01	0.037	7	11	0.03	237	0.008	2	0.38	0.005	0.09	0.1	0.01	0.6	0.2	0.09	3	3.2	<0.2
1206561	366122	6974621	1379	E	12.5	51.8	19.4	118	1.2	21.6	4.2	120	2.58	14.5	0.3	1.9	57	0.6	3	0.4	81	0.01	0.048	9	16	0.03	257	0.008	1	0.46	0.004	0.13	0.1	0.04	1.1	0.2	0.25	4	1.9	<0.2
1206562	366052	6974673	1362	E	36.2	278.6	15.5	578	2.1	141.1	15.5	534	4.92	24.8	5.8	2.4	47	1.6	9.7	0.3	112	<0.01	0.063	7	22	0.04	258	0.003	2	1.3	0.003	0.09	<0.1	0.4	5.6	0.6	0.08	3	6.1	<0.2
1206563	365999	6974757	1333	E	5.3	131.9	26.3	238	0.3	70.2	36.7	3049	5.39	13.8	5.3	4.4	76	1	1.7	0.3	43	0.37	0.26	25	22	0.2	795	0.006	4	1.02	0.008	0.15	<0.1	0.07	4.8	0.2	0.07	3	1.2	0.2
1206564	365954	6974846	1291	E	5.2	51.6	13.3	117	0.2	31.3	15.5	2698	2.17	7.4	2.6	0.3	50	0.7	1.5	0.3	32	0.37	0.081	11	12	0.11	457	0.007	2	0.68	0.019	0.08	<0.1	0.08	1.3	0.2	0.06	3	0.7	<0.2
1206565	365948	6974940	1265	E	3.5	158.7	17.7	130	<0.1	41	13.9	315	2.95	18.8	0.9	0.2	39	0.3	1.5	0.3	58	0.02	0.061	9	18	0.02	273	0.006	2	0.6	0.009	0.04	0.1	0.03	1.2	<0.1	<0.05	3	0.6	0.2
1206566	365934	6975041	1226	E	0.3	15.9	3.3	10	0.1	7	1.4	74	0.31	<0.5	0.3	<0.1	15	0.2	0.1	<0.1	8	0.07	0.047	4	5	0.03	189	0.008	<1	0.42	0.025	0.04	<0.1	0.07	0.8	<0.1	<0.05	1	<0.5	<0.2
1206567	365961	6975147	1191	E	2.5	22.9	8.9	46	<0.1	13.2	4.7	403	1.16	4.3	2.8	0.1	16	0.2	0.8	0.1	28	0.03	0.032	5	10	0.05	338	0.011	2	0.39	0.015	0.07	<0.1	0.02	0.7	0.1	<0.05	2	<0.5	<0.2
1206568	366048	6975278	1146	E	1.9	49.1	6.5	43	0.9	21.5	6.2	1220	1.14	3.8	9.9	0.7	34	0.3	0.6	0.1	37	0.26	0.113	7	16	0.14	572	0.008	3	0.9	0.019	0.09	<0.1	0.3	2.3	0.2	<0.05	3	0.7	<0.2
1206569	366061	6975303	1137	E	3.7	80	13.4	165	1.6	59.8	14.5	3050	2.37	7.4	9.2	1.7	53	2.3	1.3	0.2	55	0.38	0.116	10	23	0.26	963	0.006	4	1.2	0.01	0.11	<0.1	0.54	3.8	0.2	<0.05	4	3.4	<0.2
1206570	366098	6975404	1117	E	0.7	22.2	7.5	32	1.5	11.4	1.8	95	0.77	3.5	8.4	<0.1	17	0.3	0.3	0.4	30	0.08	0.066	5	15	0.1	248	0.006	3	0.83	0.019	0.1	<0.1	0.35	0.5	0.3	<0.05	3	<0.5	<0.2
1206701	359594	6973396	1534	W	2.8	39.5	18.0	241	1.1	64.4	8.1	266	4.42	15.6	4.8	2.0	8	0.5	2.2	0.4	79	0.04	0.051	9	28	0.18	145	0.026	3	1.39	0.004	0.1	0.1	0.16	2.3	0.1	<0.05	6	1.3	<0.2
1206702	359499	6973410	1483	W	5.9	71.4	18.8	275	1.4	59.5	11.5	317	3.83	14.8	0.3	0.2	18	0.8	3.2	0.3	65	0.05	0.102	6	22	0.06	284	0.005	2	0.72	0.004	0.13	<0.1	0.09	0.7	0.1	<0.05	3	2.5	<0.2
1206703	359394	6973421	1409	W	6.3	53.6	22.9	170	0.9	33	6.2	201	4.16	12.7	1.4	2.7	58	0.3	2.3	0.3	52	0.02	0.052	4	16	0.07	351	0.004	3	0.78	0.003	0.22	<0.1	0.28	2.4	0.5	0.13	3	2.6	<0.2
1206704	359294	6973439	1341	W	10.9	83.6	25.8	323	1.1	47.1	6.2	179	7.72	48.7	5.2	3.0	121	0.4	8.3	0.4	80	0.01	0.134	7	26	0.1	230	0.004	2	1.02	0.003	0.13	<0.1	0.0						

Table 6: Spearhead Property - Soil Sample Results

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Easting	Northing	Elev.		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1	ppm 1	% 0.01	ppm 1	% 0.001	ppm 1	% 0.01	% 0.001	% 0.01	ppm 0.1	ppm 0.01	ppm 0.1	ppm 0.1	% 0.05	ppm 1	ppm 0.5	ppm 0.2
1206718	369803	6972820	1469	E	5.3	53.3	16.4	93	5.2	22.5	6.5	178	3.38	33.1	13.2	1.9	22	0.2	6.1	0.2	86	0.04	0.057	9	39	0.31	319	0.015	2	1.51	0.005	0.11	0.2	0.28	2.2	0.2	0.06	6	4.5	<0.2
1206719	369834	6972902	1465	E	10.8	33.8	15.3	69	2.5	20.2	5.6	207	3.29	30.4	9.8	0.9	36	0.1	3.5	0.3	165	0.09	0.132	11	42	0.26	375	0.021	2	1.21	0.006	0.17	0.2	0.23	2.8	0.3	0.23	6	7.9	<0.2
1206720	370062	6972615	1357	E	3.8	43.9	7.7	41	1.3	10.7	1.6	28	0.98	5.5	3.2	0.1	13	0.4	0.8	0.2	39	0.03	0.061	8	24	0.02	198	0.005	1	0.72	0.013	0.06	<0.1	0.09	0.2	<0.1	<0.05	3	2.7	<0.2
1206721	370122	6972547		E	0.7	11.4	4.0	11	1.4	3.3	1.3	45	0.62	2.2	0.7	<0.1	7	<0.1	0.7	<0.1	19	0.04	0.03	2	6	0.02	41	0.014	1	0.25	0.016	0.02	<0.1	0.06	0.2	<0.1	<0.05	1	0.8	<0.2
1206722	369876	6973003	1421	E	4	13.2	9.8	33	1.0	7.9	1.7	53	1.09	9	1.3	0.1	18	<0.1	2.2	0.2	51	0.02	0.033	7	12	0.02	214	0.006	<1	0.33	0.004	0.07	0.1	0.04	0.2	0.2	0.12	4	2	<0.2
1206723	369916	6973093	1360	E	2.9	18.5	10.5	35	1.2	8.2	2.7	88	1.55	9.9	3.9	0.3	24	0.1	1.8	0.2	47	0.05	0.057	8	16	0.09	210	0.008	1	0.62	0.005	0.07	0.2	0.13	0.6	0.2	0.09	4	1.6	<0.2
1206724	369967	6973179	1312	E	8.4	26.8	20.3	57	6.4	14.3	4.1	155	2.96	18.1	56.1	1.7	55	0.2	4.8	0.4	84	0.04	0.075	10	31	0.2	518	0.005	2	1.24	0.005	0.19	0.2	0.8	1.9	0.6	0.32	5	7.2	0.2
1206725	370013	6973274	1263	E	10.5	72.5	28.8	10	7.1	10	0.7	12	1.61	13.7	6.3	0.3	33	0.2	3.6	0.3	88	0.02	0.066	7	35	0.01	369	0.003	3	0.36	0.004	0.17	<0.1	0.35	1.1	0.5	0.33	3	8.7	0.4
1206726	370078	6973334	1230	E	9.4	51.5	17.3	72	2.2	16.1	3.2	66	3.05	21.7	6.2	2.0	60	0.2	4	0.3	97	0.03	0.132	6	23	0.05	360	0.003	2	0.63	0.004	0.21	<0.1	0.13	1.9	0.5	0.42	4	8	0.3
1206727	370175	6973405		E	7.2	45.1	14.6	138	1.9	29.5	9.7	179	2.67	13.9	7.8	3.6	20	0.4	3.2	0.2	89	0.02	0.043	10	27	0.24	208	0.003	<1	1.56	0.004	0.11	0.1	0.13	2	0.3	0.1	4	3.7	<0.2
1206728	370246	6973451	1168	E	6.2	56.2	12.9	221	0.5	44.3	13.3	619	2.53	15.1	5.6	4.1	30	0.7	3.9	0.2	96	0.14	0.104	18	25	0.35	417	0.003	1	1.31	0.003	0.11	<0.1	0.2	2.6	0.2	<0.05	3	1.4	<0.2
1206729	370337	6973482	1145	E	5.2	37.6	12.6	129	0.6	26.9	7.1	206	2.9	12.7	5.7	1.9	16	0.4	2.3	0.2	66	0.03	0.062	9	23	0.19	170	0.006	3	1.34	0.004	0.08	0.1	0.08	1.7	0.2	<0.05	4	1.6	<0.2
1206730	370448	6973521	1129	E	6.4	50.5	11.1	167	0.3	34.5	9.5	324	2.56	13.7	7.6	3.9	15	0.5	3.4	0.2	92	0.04	0.064	14	23	0.28	261	0.003	2	1.25	0.002	0.09	<0.1	0.09	2	0.2	<0.05	3	1.6	<0.2
1206731	370527	6973561	1116	E	5.7	25.8	12.3	136	0.3	23.2	5.4	217	2.66	13	3.3	2.0	16	0.2	2.7	0.2	100	0.06	0.126	12	22	0.23	140	0.004	2	1.03	0.003	0.09	0.1	0.04	1.4	0.2	<0.05	4	1.2	<0.2
1206732	368274	6973880	1699	E	7.2	83.3	28.9	27	0.6	9.8	1.1	27	4.42	33.4	5.7	0.5	15	0.3	9.4	0.4	98	0.07	0.082	4	33	0.01	615	0.006	4	0.29	0.007	0.13	0.2	1.7	1.9	0.3	0.26	4	3.2	0.2
1206733	368220	6973940	1668	E	4.3	69.6	15.0	39	0.3	9.2	1.7	38	2.45	15.1	6.3	0.2	27	0.1	2.6	0.3	53	0.02	0.059	4	21	0.03	682	0.006	3	0.46	0.002	0.08	0.2	0.22	1.3	0.3	0.08	4	2.1	<0.2
1206734	368175	6974063	1601	E	12	51.1	17.1	40	2.0	9.6	2.6	67	3.02	23.5	15.1	1.3	34	<0.1	4.7	0.3	63	0.02	0.048	4	28	0.08	477	0.004	4	0.6	0.003	0.19	0.2	0.29	2	0.6	0.27	4	7.2	<0.2
1206735	368390	6974166	1466	E	10.5	42.6	11.2	11	1.9	3.4	0.6	18	2.81	19.8	13.3	1.1	17	<0.1	5.8	0.3	57	0.01	0.038	1	27	0.03	1112	0.004	6	0.33	0.008	0.1	<0.1	0.3	2.4	0.6	0.11	4	8.2	0.2
1206736	368321	6974227	1438	E	9	34.9	13.7	5	1.8	3.9	0.2	5	1.87	23.8	10.4	1.1	27	<0.1	6	0.2	39	0.01	0.034	1	21	0.01	156	0.001	4	0.18	0.003	0.28	<0.1	0.63	2.4	0.9	0.52	3	13.3	0.3
1206737	368249	6974317	1434	E	5.2	26.5	10.1	13	1.6	6.4	0.8	38	1.13	6.5	13.2	0.9	23	<0.1	3.4	0.2	33	0.01	0.032	3	13	0.03	550	0.003	3	0.28	0.003	0.14	<0.1	0.58	1	0.4	0.21	2	8.2	0.2
1206738	368181	6974368	1471	E	24.3	72.4	13.2	40	2.3	10.1	0.6	59	3.33	26.7	9.1	1.9	47	0.4	7.1	0.2	100	0.01	0.058	4	45	0.02	138	0.001	2	0.29	0.005	0.45	<0.1	0.7	2.8	1	0.9	6	8.5	0.3
1206739	368078	6974403	1516	E	3.3	16.9	13.6	50	0.4	10.5	3.1	130	2.33	13.6	9.1	0.6	17	0.2	2.3	0.3	60	0.03	0.039	8	21	0.15	247	0.011	1	0.81	0.003	0.15	0.2	0.11	1	0.2	0.2	6	5.3	0.2
1206740	367986	6974424	1484	E	9.4	54	19.0	58	1.4	13.7	3.4	196	2.86	15.1	12.6	0.5	34	0.2	3.9	0.4	68	0.03	0.09	8	31	0.08	439	0.004	2	0.67	0.004	0.24	<0.1	0.29	1.6	0.5	0.39	7	4.7	0.2
1206741	367893	6974473	1445	E	4.1	22.7	28.5	10	4.4	4.5	0.8	24	0.8	12.5	75.3	1.5	12	<0.1	9.2	0.3	31	0.02	0.018	4	25	0.04	173	0.006	4	0.27	0.003	0.09	<0.1	1.1	1.2	0.2	0.13	3	3.2	0.2
1206742	367799	6974499	1409	E	6.8	42.9	13.1	94	0.9	18.8	4.9	261	2.32	16.7	8.5	0.3	24	0.2	3.6	0.3	78	0.03	0.082	10	24	0.15	318	0.006	2	0.79	0.005	0.13	0.1	0.18	0.8	0.3	0.12	4	2.7	<0.2
1206743	367712	6974539	1361	E	5.9	19.2	6.6	79	0.2	13.2	1.7	37	0.89	5.4	2.1	<0.1	11	<0.1	1.7	0.1	54	0.02	0.044	9	12	0.03	144	0.003	1	0.37	0.011	0.08	<0.1	0.04	0.2	0.2	<0.05	3	1	<0.2
1206744	367609	6974571	1327	E	1.5	7.2	2.0	16	0.3	2.8	1	25	0.42	2.3	0.9	<0.1	6	<0.1	0.4	<0.1	26	0.02	0.033	4	6	0.02	51	0.007	<1	0.21	0.013	0.04	<0.1	0.04	0.4	<0.1	0.07	2	<0.5	<0.2
1206745	367523	6974612	1285	E	18.1	55.7	13.6	164	1.5	32.7	4.3	151	2.39	36.1	8.0	0.4	43	0.5	4.5	0.3	137	0.04	0.108	8	27	0.08	450	0.004	2	0.8	0.01	0.17	<0.1	0.12	1.3	0.5	0.16	3	2.3	<0.2
1206746	367477	6974673	1273	E	5.9	30.6	9.1	116	0.6	20.2	4.7	178	2.4	16.7	3.6	1.8	17	0.3	2.2	0.2	92	0.06	0.148	11	23	0.2	174	0.005	3	1.06	0.003	0.12	<0.1	0.09	1.5	0.2	<0.05	4	1.5	<0.2
1206747	367457	6974782	1252	E	5.9	30.5	5.6	61	0.2	11.2	2.3	63	1	7.7	2.6	<0.1	11	0.2	1.3	0.2	56	0.02	0.031	12	14	0.02	116	0.006	<1	0.46	0.006	0.06	<0.1	0.03	0.3	<0.1	<0.05	3	0.9	<0.2
1206748	368610	6974146	1494	E	2.7	28.6	13.9	8	3.3	6.6	0.7	36	1.43	29.7	24.8	0.3	81	0.1	8.6	0.2	43	0.08	0.099	3	35	0.02	422	0.005	2	0.3	0.016	0.16	<0.1	0.4	3.4	0.5	0.3	3	4.6	0.3
1206749	368627	6974244	1453	E	12.1	83.2	25.5	30	5.5	11.7	1.1	29	2.41	30.1	37.1	0.7	41	0.2	9	0.4	98	0.01	0.083	5	44	0.03	397	0.002	2	0.57	0.005	0.22	<0.1	0.82	3.4	0.5	0.39	6	9.4	0.5
1206750	368668	6974351	1381	E	39.8	283.2	27.4	646	4.2	189.9	24.3	4651	8.04	35.4	12.3	4.2	54	7.6	11.7	0.4	168	0.04	0.151	8	40	0.04	524	0.001	2	1.33	0.003	0.18	<0.1	1.9	11.9	1.2	0.34	3	12	0.2
1206751	368723	6974416																																						

Table 6: Spearhead Property - Soil Sample Results

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Easting	Northing	Elev.		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1	ppm 1	% 0.01	ppm 1	% 0.001	ppm 1	% 0.01	% 0.001	% 0.01	ppm 0.1	ppm 0.01	ppm 0.1	ppm 0.1	% 0.05	ppm 1	ppm 0.5	ppm 0.2
1206901	359690	6973466	1519	W	3.5	98.9	22.4	343	0.7	87.8	20	1131	4.31	17.4	4.7	3.3	23	1.8	5.1	0.3	45	0.09	0.073	8	20	0.17	591	0.005	2	0.96	0.004	0.09	<0.1	0.16	4.7	0.2	<0.05	2	2.6	<0.2
1206902	359707	6973388	1532	W	2.2	36.3	15.2	141	0.2	40.9	11	632	2.38	12.6	4.3	0.5	12	0.6	2.3	0.2	44	0.07	0.07	11	21	0.27	179	0.01	<1	1.16	0.005	0.05	0.2	0.06	1.4	0.1	<0.05	4	1.2	<0.2
1206903	359714	6973303	1522	W	3.1	26.7	16.6	91	0.2	17.9	4.4	159	2.34	15.9	1.1	0.9	23	0.2	2.5	0.4	51	0.04	0.041	9	16	0.13	169	0.022	<1	0.74	0.008	0.06	0.2	0.04	1.1	0.2	0.07	4	1.9	<0.2
1206904	359716	6973190	1510	W	2.8	39.7	17.9	144	0.9	31.2	14.5	827	3.37	17.3	3.8	1.4	24	0.8	2.7	0.4	63	0.05	0.077	9	25	0.21	211	0.013	2	1.3	0.005	0.11	0.2	0.16	2.1	0.2	0.06	4	2	<0.2
1206905	359718	6973093	1504	W	3.3	60.2	21.0	198	0.7	36.9	10.2	368	3.51	24.5	2.9	0.6	18	1.1	4.7	0.4	61	0.03	0.067	7	18	0.06	170	0.011	2	0.61	0.005	0.1	0.2	0.09	1.5	0.2	<0.05	3	2	<0.2
1206906	359710	6972984	1504	W	4	101.4	33.0	160	0.4	29.5	5.9	142	4.16	23.3	3.0	3.3	39	0.3	3.6	0.5	58	0.02	0.077	6	23	0.22	176	0.007	<1	1.25	0.004	0.11	0.1	0.13	2.9	0.4	0.09	4	3.2	<0.2
1206907	359696	6972861	1493	W	2.8	43.4	15.0	98	0.6	19.5	3.9	138	2.25	14.6	2.3	0.1	15	0.3	2.2	0.4	47	0.02	0.123	8	17	0.07	211	0.004	<1	0.81	0.005	0.09	<0.1	0.05	0.3	0.2	<0.05	4	1.1	<0.2
1206908	359697	6972773	1477	W	3.1	73.8	21.9	143	0.6	26.2	7.2	313	3.63	20.8	3.7	1.4	21	0.7	3	0.5	60	0.04	0.06	8	26	0.19	221	0.013	<1	1.31	0.006	0.08	0.2	0.18	2.8	0.3	<0.05	4	2.3	<0.2
1206909	359698	6972730	1471	W	3.4	60.7	16.3	150	0.4	33.2	8.9	229	3.06	15.1	4.0	2.3	38	0.7	2.6	0.4	41	0.07	0.067	9	18	0.24	243	0.01	1	1	0.006	0.1	0.2	0.09	2.2	0.2	<0.05	3	1.9	<0.2
1206910	359700	6972685	1484	W	3	33	15.9	106	0.3	22.4	5.6	147	2.96	20.3	3.0	2.4	27	0.3	2.7	0.7	53	0.03	0.055	7	18	0.18	156	0.009	1	1.03	0.006	0.08	0.3	0.06	2.1	0.2	0.13	4	1.5	<0.2
1206911	359700	6972619	1475	W	2.1	36.2	11.5	98	1.3	24.5	6.2	177	2.57	11.2	3.6	3.4	16	0.3	1.9	0.2	41	0.04	0.037	9	21	0.25	137	0.012	<1	1.12	0.005	0.08	0.2	0.13	2.1	0.1	0.07	3	1.6	<0.2
1206912	359683	6972495	1458	W	3.1	38.4	21.1	112	0.4	20.8	5.6	251	2.73	17.4	51.4	1.7	16	0.3	2.8	0.4	46	0.02	0.081	10	18	0.17	194	0.007	1	0.91	0.005	0.11	0.1	0.03	1.6	0.2	0.06	4	1.2	<0.2
1206913	359667	6972393	1449	W	3.3	37.2	28.0	93	0.9	18.9	5.2	195	3.59	18.5	1.8	3.7	17	0.1	2.6	0.5	57	0.02	0.092	10	22	0.14	153	0.008	1	1.07	0.003	0.12	0.1	0.08	1.9	0.2	0.07	5	1.1	<0.2
1206914	359642	6972285	1444	W	2.8	37.1	39.9	125	0.3	23.7	7.1	169	2.58	11.7	3.5	3.1	18	0.4	2.4	0.3	41	0.03	0.042	8	17	0.18	146	0.009	3	0.97	0.005	0.08	0.1	0.09	2	0.2	<0.05	3	1.4	<0.2
1206915	359623	6972200	1437	W	3	40.5	22.4	95	0.2	17.9	5.1	118	2.71	12.3	1.1	1.5	17	0.1	3.1	0.3	38	0.03	0.047	5	16	0.13	136	0.007	1	0.84	0.005	0.08	0.1	0.06	1.5	0.2	<0.05	3	1.4	<0.2
1206916	369087	6974238	1598	E	3	15.5	11.9	50	0.5	11.8	3.3	123	2.09	12.7	3.5	2.6	26	0.2	2.1	0.3	73	0.04	0.035	12	23	0.2	224	0.018	1	1.17	0.004	0.06	0.2	0.11	3.2	0.2	0.06	6	1.7	<0.2
1206917	368992	6974210	1583	E	1.2	39.3	15.6	9	3.1	2.8	0.3	9	1.67	15.8	13.7	0.4	148	<0.1	4.3	0.2	56	0.02	0.14	5	74	<0.01	1126	0.002	2	0.2	0.002	0.13	<0.1	0.8	12.8	0.5	0.22	6	4.9	<0.2
1206918	368949	6974172	1564	E	5.1	19	12.2	5	1.2	5.5	0.3	5	0.64	8.2	3.6	1.2	76	<0.1	2.5	0.3	39	0.02	0.054	3	14	0.02	655	<0.001	4	0.35	0.003	0.14	<0.1	0.34	1.7	0.8	0.13	3	3.8	0.2
1206919	368909	6974144	1551	E	5.2	31.1	10.2	2	2.0	6.8	0.1	6	0.37	3.7	6.5	1.0	42	<0.1	3.4	0.2	28	0.02	0.02	1	15	0.01	431	<0.001	3	0.16	0.002	0.09	<0.1	0.78	2.4	0.4	<0.05	2	2.4	<0.2
1206920	368854	6974112	1530	E	9.2	67.9	20.9	45	5.7	16.9	1	26	3.02	29.4	10.7	1.1	44	<0.1	9.2	0.3	81	<0.01	0.073	2	30	0.02	217	0.002	2	0.27	0.007	0.32	<0.1	1.33	2.9	0.4	0.55	3	12.4	0.5
1206921	369166	6974232	1564	E	4.4	19	12.9	51	0.8	12.5	3	105	1.96	16.3	8.5	1.2	21	0.2	3.2	0.3	61	0.04	0.046	10	19	0.15	243	0.02	1	0.68	0.003	0.08	0.1	0.15	1.2	0.3	0.07	5	2.7	<0.2
1206922	369264	6974246	1531	E	3.9	24.1	8.4	57	2.1	14.3	3.8	156	2.14	13.6	10.7	1.7	21	0.2	2.9	0.2	52	0.08	0.069	9	23	0.18	211	0.016	2	1.15	0.006	0.08	0.2	0.37	1.6	0.2	0.11	4	3.7	<0.2
1206923	369357	6974250	1503	E	3.8	24	10.8	71	0.5	17.6	5	169	2.41	17.9	4.7	3.4	24	0.4	2.4	0.2	66	0.1	0.062	12	23	0.28	223	0.019	1	1.32	0.005	0.07	0.2	0.08	2	0.2	<0.05	4	2	<0.2
1206924	369448	6974243	1469	E	1	23.3	3.9	23	1.4	3.7	1.6	80	0.96	2.6	2.1	0.2	7	<0.1	0.4	<0.1	15	0.04	0.044	3	5	0.03	57	0.016	<1	0.52	0.027	0.05	<0.1	0.09	0.5	0.1	0.07	2	1	<0.2
1206925	369564	6974261	1412	E	4.4	166.8	21.0	122	2.1	20.2	3.3	81	5.46	16.4	6.0	3.4	77	0.2	3.1	0.4	41	0.01	0.085	10	31	0.09	299	0.002	1	0.96	0.003	0.14	<0.1	0.3	2.3	0.3	0.14	4	7.3	0.2
1206926	369655	6974243	1364	E	4.3	44.2	12.1	78	0.4	11.6	2.8	90	2.41	12.9	1.4	1.8	22	0.3	2.1	0.3	56	0.01	0.041	8	14	0.04	232	0.011	1	0.55	0.003	0.12	<0.1	0.05	1.2	0.2	0.11	4	3.1	0.3
1206927	369757	6974211	1297	E	17.7	156.9	14.5	307	2.2	42.5	8.8	345	6.11	19.2	15.5	2.9	19	1.2	4.8	0.3	63	0.02	0.098	4	14	0.05	296	0.002	3	1.1	0.004	0.13	<0.1	0.5	3.8	0.7	0.18	3	15.6	0.5
1206928	369862	6974190	1252	E	9.7	83.2	19.8	188	0.8	40.9	9.3	292	4.1	18	9.4	2.6	39	0.4	3.8	0.3	68	0.02	0.075	5	25	0.1	230	0.002	2	1.15	0.003	0.12	<0.1	0.19	2.4	0.4	0.14	3	4.3	<0.2
1206929	369922	6974161	1227	E	2.4	199.8	5.7	62	5.2	7.8	1.1	39	25.86	6.5	39.7	1.0	9	0.2	5.7	0.1	24	0.01	0.096	3	18	0.02	69	0.005	2	0.5	0.005	0.04	<0.1	1.35	5.4	0.2	0.13	2	46.7	<0.2
1206930	370043	6974088	1197	E	0.7	64.9	6.1	15	29.9	5.3	1	20	0.55	1	30.0	<0.1	9	0.2	0.3	0.1	22	0.03	0.088	3	9	0.04	70	0.004	2	0.64	0.014	0.05	<0.1	0.91	0.5	0.3	<0.05	2	2.8	<0.2
1206931	370121	6974087	1172	E	<0.1	2.3	0.2	6	<0.1	1	0.9	17	0.26	<0.5	0.3	<0.1	9	<0.1	<0.1	<0.1	11	0.1	0.036	1	1	0.02	32	0.014	<1	0.16	0.026	0.03	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
1206932	370242	6974079	1135	E	1.4	14.9	3.1	25	0.1	4.9	1.2	42	0.76	3.8	1.6	<0.1	16	0.6	0.2	<0.1	21	0.03	0.028	1	6	0.01	60	0.006	<1	0.19	0.016	0.03	<0.1	0.02	0.2	<0.1	<0.05	1	<0.5	<0.2
1206933	370309	6974086	1125	E	2.9	77.6	8.5	138	0.2	24	4.5	80	3.36	10.8	1.0	1.2	6	0.4	2.5	0.3	42	0.01	0.053	5	15	0.03	431	0.004	1	0.56	0.003	0.08	<0.1	<0.01	1.3	<0.1	<0.05			

Table 6: Spearhead Property - Soil Sample Results

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Easting	Northing	Elev.		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1	ppm 1	% 0.01	ppm 1	% 0.001	ppm 1	% 0.01	% 0.001	% 0.01	ppm 0.1	ppm 0.01	ppm 0.1	ppm 0.1	% 0.05	ppm 1	ppm 0.5	ppm 0.2
1206947	366987	6974669	1258	E	15.9	107	25.4	117	0.7	32.6	21.7	1606	4.14	26.4	6.9	2.4	75	0.4	3.6	0.4	83	0.07	0.213	17	32	0.19	745	0.005	5	1.14	0.011	0.26	0.1	0.17	2.5	0.4	0.34	4	1.9	<0.2
1206948	366990	6974744	1249	E	4.1	59.5	14.1	148	0.5	32.2	12.2	614	2.21	13.7	6.0	2.2	44	0.6	2.4	0.2	60	0.28	0.109	13	18	0.26	582	0.009	3	0.85	0.009	0.13	<0.1	0.17	2.3	0.2	<0.05	3	0.8	<0.2
1206949	366959	6974864	1242	E	4.6	35.8	12.4	72	<0.1	19	5.2	248	1.84	11.2	1.5	0.2	15	<0.1	1.6	0.3	53	0.02	0.046	9	15	0.05	140	0.004	2	0.58	0.01	0.08	0.1	0.02	0.8	0.1	<0.05	5	0.6	<0.2
1206950	365689	6973448	1419	E	6	53.4	13.3	199	0.8	50.2	9.8	333	3.14	129.7	7.0	6.4	36	0.8	3.9	1.3	63	0.36	0.21	11	42	0.71	1184	0.045	2	3.98	0.02	0.13	0.4	0.14	3.5	0.3	0.09	8	1.7	<0.2
1206951	365623	6973530	1393	E	2.7	21.8	7.6	62	0.5	14.4	5.7	1009	1.15	24.2	4.2	0.1	35	1.5	1.3	0.6	21	0.38	0.083	9	10	0.15	1240	0.01	2	0.89	0.026	0.06	0.1	0.11	0.5	0.3	0.08	3	1	<0.2
1206952	365552	6973654	1365	E	9.7	51.8	20.2	138	0.4	36.5	13.8	640	3.13	93.3	6.9	2.9	29	0.6	5.2	1.3	49	0.18	0.14	20	22	0.43	904	0.021	3	1.47	0.011	0.11	0.6	0.06	2.1	0.3	0.06	5	1.5	<0.2
1206953	365517	6973748	1357	E	4.5	53.2	12.5	140	0.4	30.2	10.2	513	2.88	116.8	10.9	2.6	43	0.9	3	2.3	66	0.56	0.108	16	25	0.53	1180	0.045	1	1.77	0.028	0.16	1.1	0.05	2.1	0.2	0.05	6	1.2	<0.2
1206954	365474	6973834	1345	E	1.2	11	2.7	24	0.4	6.5	1.3	33	0.52	17.6	0.7	<0.1	15	0.5	0.5	0.4	17	0.13	0.053	4	8	0.11	362	0.007	1	0.57	0.022	0.04	0.1	0.05	0.3	0.1	0.06	2	<0.5	<0.2
1206955	365429	6973923	1336	E	3.1	89.7	14.5	130	0.5	32	12.3	439	3.29	158.5	9.0	7.9	49	1	2.3	5.3	73	0.56	0.097	19	25	0.77	970	0.115	2	2.72	0.055	0.28	2.2	0.06	3.3	0.5	<0.05	8	1.3	<0.2
1206956	365387	6974011	1315	E	3.8	30.7	8.8	114	1.1	26.2	10.9	721	1.83	29.2	5.3	0.7	36	1.6	1	1.2	38	0.68	0.111	16	17	0.42	687	0.022	3	1.28	0.023	0.1	1.3	0.18	1.5	0.3	0.09	5	1.4	<0.2
1206957	365345	6974111	1285	E	1	14	2.7	15	0.1	4.6	1.3	28	0.62	15.3	0.3	0.6	9	0.2	0.4	0.6	18	0.06	0.029	5	6	0.07	125	0.024	<1	0.83	0.028	0.03	0.2	0.02	0.7	<0.1	<0.05	2	0.5	<0.2
1206958	365316	6974198	1270	E	6.4	37.3	11.7	110	0.1	25.3	6.4	271	2.43	28.4	4.2	2.0	23	0.2	2.4	1.1	70	0.06	0.062	12	23	0.2	351	0.011	4	1.01	0.006	0.1	0.3	0.04	1.7	0.2	<0.05	5	1.3	<0.2
1206959	365272	6974277	1241	E	4.7	22.6	7.1	78	0.8	20.1	3.6	113	1.03	20.9	3.7	0.2	43	1.1	2.9	1.2	35	0.44	0.057	9	13	0.17	573	0.024	2	0.98	0.024	0.08	0.7	0.08	0.8	0.3	<0.05	4	1.8	<0.2
1206960	365216	6974373	1226	E	1.5	26.2	6.9	35	0.4	17.2	3	98	1.16	13.1	1.4	0.5	49	0.2	0.9	0.5	34	0.63	0.048	9	14	0.19	653	0.019	2	1.08	0.045	0.08	0.2	0.07	1.6	0.1	<0.05	4	1.1	<0.2
1206961	365180	6974461	1210	E	5.3	54.3	12.6	160	0.4	50.7	15.9	911	2.49	26.1	4.6	3.4	37	1.2	2.8	0.6	61	0.2	0.118	16	20	0.3	522	0.019	3	1.11	0.007	0.12	0.2	0.1	2.4	0.3	<0.05	4	1.3	<0.2
1206962	365128	6974560	1188	E	5	40.3	12.2	77	0.2	18.9	4.4	130	2.55	88.7	5.4	1.6	18	0.5	2.5	2	62	0.13	0.079	12	25	0.36	399	0.053	2	2.17	0.015	0.12	1.3	0.05	1.9	0.2	0.07	8	1.1	<0.2
1206963	365085	6974650	1165	E	2.7	29.8	9.2	85	0.5	18.3	6.3	131	1.45	26.7	5.3	1.1	22	0.5	0.8	1.6	39	0.2	0.077	10	13	0.24	447	0.024	<1	1.34	0.016	0.07	0.7	0.06	1.3	0.2	0.12	5	1.2	<0.2
1206964	364969	6974699	1157	E	2.9	74.8	11.7	43	1.9	14.6	2.5	67	1.68	18.3	8.0	0.5	12	0.7	0.8	0.6	41	0.08	0.121	13	20	0.21	352	0.004	<1	1.95	0.009	0.05	0.2	0.76	0.4	0.4	0.05	4	3.4	<0.2
1207101	369009	6974184	1598	E	0.4	17.7	14.6	4	1.8	0.6	<0.1	5	1.26	5.6	10.1	1.4	111	<0.1	1.6	0.2	34	0.01	0.103	4	29	0.01	953	0.001	2	0.23	0.001	0.13	<0.1	0.31	3	0.5	0.16	5	0.9	<0.2
1207102	368980	6974150	1582	E	5.6	12.4	28.9	4	0.8	4.8	0.2	5	1.03	7.4	21.7	1.5	119	<0.1	3.5	0.4	33	0.02	0.07	5	18	0.01	569	<0.001	2	0.36	0.002	0.19	<0.1	0.58	2.7	1.2	0.32	6	4.7	<0.2
1207103	369069	6974213	1588	E	5.6	37.9	4.7	2	3.4	5	<0.1	4	0.35	3.4	14.2	0.7	4	0.2	5.1	0.1	61	<0.01	0.01	2	21	0.01	218	0.001	1	0.18	0.001	0.08	<0.1	1.47	0.8	0.2	0.06	2	1.9	<0.2
1207104	369075	6974168	1569	E	2.7	24	12.8	22	6.6	5.7	1.3	40	1.82	13.8	49.9	1.7	24	0.1	4.7	0.3	72	0.02	0.043	7	29	0.05	450	0.007	1	0.51	0.002	0.11	0.1	1.26	2.5	0.4	0.17	5	3.9	0.2
1207105	369020	6974101	1547	E	4.6	23.5	12.5	4	1.3	5.3	0.2	5	0.72	6.2	8.0	0.8	66	<0.1	2.3	0.2	41	0.01	0.046	2	15	0.02	473	<0.001	6	0.34	0.002	0.19	<0.1	0.45	1.8	0.7	0.25	3	5	<0.2
1207106	368985	6974062	1532	E	15.2	93.1	23.3	2	5.0	14.1	0.2	5	0.81	8.6	6.9	1.8	36	0.1	6.9	0.3	51	<0.01	0.02	4	31	<0.01	473	0.001	3	0.29	0.002	0.13	<0.1	2.75	3.8	0.2	0.23	2	10.3	<0.2
1207107	368966	6974038	1525	E	6.4	27	18.9	3	3.2	5.6	0.1	4	0.55	15.2	14.4	1.0	74	<0.1	5.4	0.3	43	<0.01	0.039	3	24	<0.01	534	<0.001	2	0.27	0.001	0.11	<0.1	1.05	4.7	0.5	0.15	2	4.6	0.2
1207108	368945	6973977	1518	E	18.3	67	28.3	37	6.6	13.7	0.7	28	4.94	26.6	18.8	1.1	40	0.1	9.6	0.4	111	0.01	0.09	3	48	0.03	71	0.004	3	0.34	0.008	0.73	<0.1	1.05	2.9	0.8	1.27	6	20.9	0.5
1207109	369076	6973602	1525	E	7.8	9.4	30.3	5	0.7	1.8	0.2	18	1.61	12.9	6.8	3.8	27	<0.1	1.6	0.6	53	0.01	0.063	25	12	<0.01	361	<0.001	2	0.32	0.004	0.23	0.1	0.14	0.7	0.5	0.32	4	5.1	<0.2
1207110	368626	6973768	1699	E	44.1	34.2	18.6	4	1.0	16.8	0.2	6	0.82	23.7	3.0	3.6	63	<0.1	8.3	0.3	89	0.02	0.045	5	11	0.02	1004	0.001	6	0.37	0.002	0.16	0.1	1.59	2.1	1.7	0.15	3	6	<0.2
1207111	368494	6972955	1605	E	9.7	34.6	20.6	18	0.7	3.1	1.4	85	0.76	15.8	3.8	2.3	49	<0.1	3	0.3	20	0.01	0.023	7	9	0.02	424	0.001	1	0.25	0.002	0.06	<0.1	0.75	2.2	0.5	<0.05	1	1	<0.2
1207112	368320	6972726	1659	n/a	2.1	81.1	13.5	36	0.5	7.9	1.8	58	1.75	20	12.7	2.0	27	<0.1	2.6	0.2	43	0.03	0.039	14	20	0.08	617	0.012	1	0.55	0.002	0.07	0.1	0.21	2.2	0.2	<0.05	3	3.4	<0.2
1207251	369723	6972287	1370	E	1.8	19.8	14.6	72	0.1	33.4	11.6	362	3.01	16.4	3.0	2.7	15	0.2	5.2	0.2	15	0.25	0.088	7	12	0.14	375	0.001	2	0.96	0.007	0.08	<0.1	0.06	3	0.2	<0.05	2	<0.5	<0.2
1207252	370150	6971647	1200	E	9.9	33.6	12.0	93	0.5	23.2	9.3	542	2.34	12.7	5.8	0.6	19	0.5	1.5	0.2	28	0.06	0.074	4	12	0.11	556	0.004	3	0.59	0.007	0.08	<0.1	0.1	1.2	0.3	<0.05	2	1	<0.2
1207253	367299	6974105	1276	E	1	15	3.8	104	0.6	29.7	3.7	495	0.78	2	3.7	0.4	15	1.1	0.4	0.2	31	0.15	0.055	6	7	0.11	123	0.01	2	0.75	0.019	0.07	<0.1	0.19	0.7	0.2	<0.05	2	1.6	<0.2

Table 7: Spearhead Property - Silt Sample Descriptions

Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Sample ID	Quartz Mining Claim	Claim Group (E / W)	Sample Date	Sampler	Sample UTM Coordinates			Sample Environment	Medium	Medium Depth (m)	Medium Width (m)	Bank Type	Water color	Vegetation Cover	Comments
					Easting	Northing	Elev.								
1207151	SH-100	W	June 18th 2011	MG	358885.8	6972827.0	1202					organic	clear	buck brush	Good material, dark grey, some moss mat and leaf litter. Rare gravel. Bushy shore and clear water.
1207152	SH-18	E	June 20th 2011	MG	369728.3	6973622.8	1241	moss mat	creek						Mainly moss mat, some good silts. Steep creek. Clear water.
1207153	SH-18	E	June 20th 2011	MG	369849.7	6973638.1	1218	L energy pool	creek						10% moss mat. Rest silt and clays. Slow trickle on side of main creek.
1207301	SH-79	W	June 18th 2011	ED	359155.8	6972108.9	1287	L Energy Pool	creek	0.4	1.5	Organic	clear	Evergreen forest	
1207302	SH-98	W	June 18th 2011	ED	358947.5	6972284.7	1253	L Energy Pool	creek	0.2	0.6	Organic	clear	Evergreen forest	Lots of organics. Taken over 25m.
1207303	SH-99	W	June 18th 2011	ED	358369.0	6972826.6	1094	Moss mat and L energy pool	stream	0.6	2.0	alluvial	clear	buck brush	
1207304	SH-3	E	June 19th 2011	ED	370265.0	6971405.7	1112	L energy pool	stream	0.4	3	alluvial	clear	evergreen forest	shiny yellowish-bronze min frags in silt. Perhaps ox. Micas? Had platiness to them.
1207305	SH-4	E	June 19th 2011	ED	370534.5	6971415.7	1105	L energy pool	creek	0.2	0.4	organic	clear	evergreen forest	
1207306	SH-45	E	June 20th 2011	ED	367369.5	6974262.8	1276	L energy pool	stream	0.15	1	alluvial	clear	evergreen forest	Lots of organics. Very hard to acquire.
1207307	SH-43	E	June 20th 2011	ED	367320.2	6974001.6	1276	Low energy pool	stream	0.2	1.5	alluvial	clear	evergreen forest	Very red silt. Gossanous sediment all over the stream bed and banks in red and white.
1207308	SH-41	E	June 21st 2011	ED	367202.7	6973550.6	1354	L energy pool	creek	0.2	0.4	organic	clear	buck brush	
1207309	SH-52	E	June 21st 2011	ED	366887.2	6973494.8	1344	L energy pool	stream	0.6	2.0	alluvial	clear	buck brush	
1207310	n/a	E	June 21st 2011	ED	365163.9	6973641.7	1291	L energy pool	creek	0.2	0.3	organic	clear	evergreen forest	Side channel sample. Main channel too high energy. May have some influence from western valley slope. Very fine grained sparkling minerals in the sample.

Table 8: Spearhead Property - Silt Sample Results



Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Easting	Northing	Elev.		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001	ppm 1	ppm 1	% 0.01	ppm 1	% 0.001	ppm 1	% 0.01	% 0.001	% 0.01	ppm 0.1	ppm 0.01	ppm 0.1	ppm 0.1	% 0.05	ppm 1	ppm 0.5	ppm 0.2
1207151	359155.8	6972108.9	1287	W	2.3	37.5	18.1	149	0.6	31.2	7.4	387	1.98	11.5	7.5	2	43	1.8	1.7	0.3	38	0.28	0.062	8	15	0.23	538	0.007	2	0.93	0.006	0.12	0.2	0.19	2.2	0.2	0.06	3	<0.5	<0.2
1207152	358947.5	6972284.7	1253	E	2.9	80.9	8.3	75	12.7	21.6	3.9	124	1.62	9	18.1	0.9	19	0.1	2	0.2	43	0.1	0.106	10	24	0.25	170	0.016	3	0.97	0.005	0.1	0.1	0.51	3.5	0.3	<0.05	3	2.5	<0.2
1207153	358369.0	6972826.6	1094	E	3.4	54.3	8.3	96	1.2	18.9	3.2	93	1.53	8.3	8.2	0.5	18	0.3	1.9	0.2	50	0.08	0.081	10	16	0.18	174	0.008	2	0.89	0.007	0.09	<0.1	0.21	1.1	0.3	<0.05	3	3.2	<0.2
1207301	358885.8	6972827.0	1202	W	2.2	47.1	12.7	183	0.7	56	8.1	244	1.82	25.2	4.5	0.5	35	2.9	1.5	0.6	41	0.24	0.087	9	15	0.21	631	0.015	3	1.23	0.011	0.12	0.3	0.19	1.4	0.2	<0.05	4	3.1	<0.2
1207302	370265.0	6971405.7	1112	W	3.4	57.4	13.7	129	0.7	37.8	9	561	2.16	23.2	2.7	0.5	37	2.2	1.6	0.5	35	0.21	0.091	8	14	0.22	1347	0.008	2	1.06	0.008	0.1	0.4	0.16	1.6	0.2	0.09	3	1.9	<0.2
1207303	370534.5	6971415.7	1105	W	2.3	44.9	13.8	210	0.6	55.2	7.4	184	1.91	18.6	4.8	1.1	39	1.8	1.5	0.4	34	0.29	0.076	8	16	0.25	690	0.008	2	1.03	0.008	0.13	0.3	0.21	2	0.2	<0.05	3	4.1	<0.2
1207304	367369.5	6974262.8	1276	E	4.7	100.9	17.1	482	0.4	98.3	29.7	1015	4.02	59	4.5	4.2	36	4	3.6	0.6	46	0.26	0.099	17	14	0.26	517	0.011	3	1.65	0.007	0.13	0.2	0.13	3	0.4	0.08	2	1.9	<0.2
1207305	367320.2	6974001.6	1276	E	3.7	59.1	12.4	197	1.6	52.2	13.7	1125	2.06	10.1	15.7	1.3	73	2.1	2.8	0.2	58	0.67	0.114	10	20	0.29	1794	0.007	4	1.09	0.007	0.13	<0.1	0.6	2.8	0.2	0.12	3	5.6	<0.2
1207306	369728.3	6973622.8	1241	E	14.9	127.3	17	58	2.2	14.8	1.8	55	3.15	25.2	8.5	1.2	127	0.4	6.4	0.3	84	0.09	0.273	6	24	0.05	617	0.002	3	0.63	0.004	0.15	0.1	0.48	5.4	0.6	0.2	2	10.3	<0.2
1207307	369849.7	6973638.1	1218	E	3.8	68.6	3	33	0.7	7.3	1.9	87	34.31	4.8	<0.5	1.4	9	0.1	1.1	<0.1	29	0.03	0.037	<1	21	0.01	42	<0.001	1	0.63	<0.001	0.02	<0.1	0.09	5.5	0.1	3.02	<1	3.3	<0.2
1207308	367202.7	6973550.6	1354	E	5.3	29.5	10.3	344	0.4	78.6	7.9	467	2.58	19.1	4.6	0.7	43	2.7	2.9	0.2	56	0.41	0.113	9	13	0.18	740	0.005	3	0.74	0.006	0.08	<0.1	0.17	1.2	0.4	<0.05	2	3	<0.2
1207309	366887.2	6973494.8	1344	E	7.0	142.8	15.6	309	0.9	72.7	15.5	422	2.9	410.1	9.9	2	39	2.1	3.7	1.7	77	0.24	0.128	14	22	0.27	716	0.005	3	1.81	0.007	0.13	0.2	0.36	2.6	0.4	0.12	4	4.1	<0.2
1207310	365163.9	6973641.7	1291	E	5.1	24.0	8.8	109	0.4	23.3	11.8	661	2.12	21.2	4.2	1.1	27	0.9	1.7	0.3	41	0.28	0.091	10	14	0.25	516	0.008	3	1.2	0.014	0.07	<0.1	0.11	1.3	0.2	0.06	4	2.1	<0.2

Table 9: Spearhead Property - Rock Sample Descriptions



Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Sample ID	Quartz Mining Claim	Claim Group (E / W)	Sample Date	Rock Sampler	ID (notes)	Sample UTM Coordinates			Description
						Easting	Northing	Elev.	
1207201	SH-86	W	June 18th 2011	MG	West	359466.2	6973314.5	1483	Grab/chip from 30cm of OC, in situ-chert pebble conglomerate with much rust
1207202	SH-85	W	June 18th 2011	MG	West	359429.0	6973417.3	1430	Chip "style" sub crop - in situ? Black shale, dull luster, even grained with some rusty
1207203	SH-21	E	June 19th 2011	MG	East	369027.4	6974198.5	1604	Grab from OC. Broken off from 3m south. Black siliceous chert with sheeted qvs. 1mm to 10mm wide. Zones of rust staining. Rare zones of fine greenish to yellow
1207204	SH-21	E	June 19th 2011	MG	East	369025.5	6974192.6	1602	Grab from OC in situ. Black chert with some qv 1mm to 10mm wide. Rusty areas common, grey zones seem to be bleaching(?)
1207205	SH-34	E	June 19th 2011	MG	East	369004.6	6974170.4	1592	Grab float not from far. Extremely weathered or altered chert. Highly rusted, voids. Some zones resemble breccia textures. Orange, red, brown oxides.
1207206	SH-32	E	June 19th 2011	MG	East	368990.2	6973953.0	1506	Chip over 1.5m from oxidized out crop. Light black chert, decomposing in some zones-? Shearing? Sulphur yellows, iron oranges and red, browns, oxides.
1207207	SH-17	E	June 20th 2011	MG	East	369231.4	6973325.0	1451	Rock float grab. QV material 5cm thick. From contact of cherts and qtz barite lense.
1207208	SH-17	E	June 20th 2011	MG	East	369077.0	6973603.0		Calc silicate or/+ qtz ba light tan to blonde colour. Sugary even texture- rusty
1207209	SH-17	E	June 20th 2011	MG	East	369047.0	6973617.8	1535	Grab in situ OC. Black chert. Weathered grey with much oxide staining. Brown and
1207210	SH-17	E	June 20th 2011	MG	East	369070.0	6973597.0		Grab from float? Subcrop? Calc silicate or qtz ba rusty some Mn coatings. Wet and
1207211	SH-32	E	June 21st 2011	MG	East	368699.5	6973740.2	1687	Breccia textured chert. Some fresh dark qtz. Either bleaching of black and light grey chert. Some hematite coatings (black mammillary) some voids/+ vugs with rusty linings.
1207212	SH-32	E	June 21st 2011	MG	East	368688.0	6973735.9	1683	grab float, Breccia. Black and grey angular frags and angular qtz frags. Hem. Coatings (black and orange) limonitic throughout. Some qtz as matrix. Hand sample was also taken.
1207213	SH-32	E	June 21st 2011	MG	East	368672.7	6973782.3	1698	Grab, float/felsenmer: assorted float rocks from 1.5m wide across breccia float zone. Limonitic QVs 2mm to 50mm wide. Black hem. Coatings. Note: width of breccia float approx 10m (NNExSSW)
1207214	SH-27	E	June 21st 2011	MG	East	368359.1	6973045.9	1614	Grab, float. QV material 5cmx10cm white sugary texture. Some zones of slow crystal growth. Rust staining in some zones.
1207215	SH-27	E	June 21st 2011	MG	East	368503.9	6972970.7	1617	1.2m chip from OC. In situ. "Crude" chip. Bleached? Or light grey chert. Very rusty not glassy texture but rather sugary+/or chalky texture.
1207216	SH-27	E	June 21st 2011	MG	East	368464.9	6972896.0	1600	Float grab. Black chert, very oxidized. With hem. And lim. Multidirectional QVs weathered.
1207217	n/a	E	June 22nd 2011	MG	East	368291.9	6972747.6	1670	Grab Float. Black competent chert with QVs, sheeted QVs- micro to 1cm wide. Some intersecting at obtuse angles. Similar to photo 1 but with zones of oxides.
1207218	SH-40	E	June 22nd 2011	MG	East	368007.7	6973167.5	1703	Grab float. QV material with black chert inclusions. Orange rusty zones, reddish
1207351	SH-84	W	June 18th 2011	ED	West	359675.8	6973060.9	1525	Rusted out chert conglomerate. D Grey med to coarse grained.
1207352	SH-84	W	June 18th 2011	ED	West	359601.9	6972946.6	1504	Grey chert with qtz vnls.
1207353	SH-82	W	June 18th 2011	ED	West	359544.2	6972453.3	1453	Rusted Chert congl. With shale. Rock float right under outcrop. Some Qvnls.
1207354	SH-16	E	June 19th 2011	ED	East	369716.7	6972879.5	1464	Outcrop grab. Rusty grey chert. Some dark grey patches. Weathered red and light green.
1207355	SH-16	E	June 19th 2011	ED	East	369839.2	6972795.4	1474	Float- D grey chert with qtz vnls/stringers.
1207356	n/a	E	June 19th 2011	ED	East	369807.8	6972155.7	1366	Med grey chert. Very rusted out. Some qtz stringers.
1207357	SH-5	E	June 19th 2011	ED	East	369860.6	6971960.3	1303	Very rusty intermixed med grey and black chert/mudstone/limestone.
1207358	SH-3	E	June 19th 2011	ED	East	369885.3	6971818.1	1275	Rusted shale with stringer vnls 1mm thick.
1207359	SH-31	E	June 20th 2011	ED	East	368239.5	6973922.9	1675	Subcrop/float very close to OC. Very rusted and ox. Dark grey cherty qtz mix. (breccia? Congl? Reworked?) rainbow hue to the fracs. Oxides forming.
1207360	SH-31	E	June 20th 2011	ED	East	368266.4	6973882.7	1692	Outcrop, very rusted out and weathered d grey to med grey chert. Voids rusted out. Rainbow hue to the fracs.
1207361	SH-31	E	June 20th 2011	ED	East	368289.3	6973862.2	1703	OC, black chert. Rainbow hue to the fracs. Sulphur smell. Some thin (1mm to 2mm) stringer vnls of wtz.
1207362	SH-29	E	June 20th 2011	ED	East	368197.4	6973675.8	1666	Dark chert with qtz vnls. Very weathered/rusty voids and ox along fracs.
1207363	n/a	n/a	June 22nd 2011	ED	East	368331.4	6972724.7	1655	Float- Black to Dark grey chert with criss-crossing qtz stringers up to 3mm in width. Light green min on fract surface of vnlt. Oxides and weathering on surfaces and fracs.

Table 10: Spearhead Property - Rock Sample Results



Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Lab Tag Number	Sample UTM Coordinates			Claim Group (E / W)	Wgt kg 0.01	Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1	Cr ppm 1	Mg % 0.01	Ba ppm 1	Ti % 0.001	B ppm 1	Al % 0.01	Na % 0.001	K % 0.01	W ppm 0.1	Hg ppm 0.01	Sc ppm 0.1	Tl ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	Te ppm 0.2
	Easting	Northing	Elev.																																						
1207201	359466	6973314	1483	W	1.03	1	18.1	6.3	26	0.2	5.3	0.6	18	1.37	4.9	2	1.6	11	<0.1	1.5	0.1	26	<0.01	0.019	<1	17	0.05	341	0.002	6	0.4	0.002	0.24	<0.1	0.14	1.2	0.1	0.13	2	2.5	<0.2
1207202	359429	6973417	1430	W	1.96	3.3	49.7	19	114	0.3	21.1	7	184	2.4	8.2	2.6	3.2	23	0.2	1.6	0.3	33	0.01	0.041	1	12	0.07	392	0.002	9	0.71	0.002	0.35	<0.1	0.37	3.1	0.3	0.09	2	2.2	<0.2
1207203	369027	6974198	1604	E	1.49	0.7	15.3	5	2	1.4	2.1	0.1	21	1.02	4.6	5	0.5	19	<0.1	1.9	<0.1	31	<0.01	0.033	<1	37	<0.01	469	0.001	3	0.12	<0.001	0.11	<0.1	0.32	1.5	<0.1	0.11	2	4.1	<0.2
1207204	369025	6974193	1602	E	1.33	0.2	17.1	4	1	0.8	1.2	0.1	15	1.04	2.3	4.5	0.4	8	<0.1	1.9	<0.1	32	<0.01	0.023	<1	34	0.01	391	<0.001	5	0.15	<0.001	0.12	<0.1	0.2	0.7	0.1	0.09	3	3.1	<0.2
1207205	369005	6974170	1592	E	1.57	0.8	159.5	6	13	0.9	2	0.1	16	7.95	34.8	9.1	0.3	24	<0.1	6.5	<0.1	223	<0.01	0.179	<1	59	<0.01	469	0.002	6	0.19	<0.001	0.09	<0.1	1.01	2.7	0.2	0.1	9	9.3	<0.2
1207206	368990	6973953	1506	E	2.57	0.8	19.5	5.2	2	0.5	4.8	0.3	22	0.87	11.2	3.7	0.6	6	<0.1	4	0.2	21	<0.01	0.016	<1	18	0.01	1156	<0.001	9	0.24	0.002	0.15	<0.1	0.23	1.3	<0.1	0.12	1	3.8	<0.2
1207207	369231	6973325	1451	E	0.67	1.2	1.3	1.4	<1	<0.1	0.6	0.1	15	0.28	2.5	1.7	0.2	5	<0.1	0.9	<0.1	6	<0.01	0.01	<1	8	<0.01	1550	<0.001	2	0.06	<0.001	0.04	<0.1	0.02	0.2	<0.1	0.08	<1	1.7	<0.2
1207208	369077	6973603		E	0.87	<0.1	1.9	44.8	4	<0.1	3.5	<0.1	9	0.2	2.3	1.3	17.3	5	<0.1	0.3	<0.1	5	0.01	0.026	33	8	<0.01	281	<0.001	7	0.49	0.001	0.17	0.1	0.08	1.4	<0.1	<0.05	1	1.1	<0.2
1207209	369047	6973618	1535	E	1.05	1.6	9.8	3.6	3	0.4	3.2	0.5	21	1.12	9.4	4	0.9	26	<0.1	3.7	0.1	36	<0.01	0.039	1	17	0.02	605	0.001	8	0.23	0.002	0.2	<0.1	0.29	2.1	0.6	0.29	2	4	<0.2
1207210	369070	6973597		E	1.52	0.1	10.7	35.6	74	<0.1	4.7	1.7	408	2.64	2.3	1.5	17.8	3	0.4	0.2	<0.1	4	<0.01	0.03	34	3	0.01	286	<0.001	10	0.5	0.014	0.19	<0.1	0.1	1.2	0.1	<0.05	1	0.8	<0.2
1207211	368699	6973740	1687	E	0.88	569.7	176.3	9.1	10	2.4	1.4	0.5	20	6.37	119.2	28.7	1.1	45	<0.1	47.4	0.1	434	<0.01	0.111	4	97	0.02	1636	0.002	7	0.4	<0.001	0.1	0.1	1.43	2.2	<0.1	0.06	5	16.5	<0.2
1207212	368688	6973736	1683	E	0.91	448.2	567.4	6.4	10	1.5	1.2	0.2	20	12.3	292.6	10.1	1.1	15	<0.1	17	0.2	1114	0.01	0.067	<1	66	<0.01	871	0.002	3	0.2	<0.001	0.05	0.2	2.08	3.4	<0.1	0.1	4	24.5	0.3
1207213	368672.7	6973782.3	1698	E	1.45	21.8	395.6	13.8	11	4.8	3.4	0.2	13	9.79	146.6	23.3	1.4	42	<0.1	14.5	0.2	272	0.01	0.111	4	74	0.01	2298	0.003	6	0.43	<0.001	0.1	<0.1	3.29	4.4	<0.1	0.07	14	52.4	0.4
1207214	368359.1	6973045.9	1614	E	0.97	1.9	60	4	2	<0.1	1.9	<0.1	12	0.6	2.9	1.4	0.6	12	<0.1	0.4	0.2	12	<0.01	0.006	1	10	<0.01	362	<0.001	4	0.27	0.001	0.06	<0.1	0.04	2.4	<0.1	<0.05	<1	<0.5	<0.2
1207215	368503.9	6972970.7	1617	E	1.96	0.7	120.2	7.5	35	<0.1	7	1	21	1.73	7.2	1.7	0.8	22	<0.1	1	0.2	25	<0.01	0.014	<1	18	0.01	393	<0.001	3	0.42	0.002	0.08	<0.1	0.03	4.1	<0.1	<0.05	2	0.5	<0.2
1207216	368464.9	6972896.0	1600	E	1.7	0.5	108.1	4.3	18	0.3	1.1	0.1	13	4.65	42.7	5.2	1.4	10	<0.1	7.6	<0.1	79	<0.01	0.021	2	36	<0.01	359	<0.001	2	0.29	<0.001	0.03	<0.1	0.94	1.8	<0.1	<0.05	2	6.1	<0.2
1207217	368291.9	6972747.6	1670	E	1.45	1	55.5	4.4	14	0.2	1.7	0.1	22	1.89	17.1	6.5	0.6	30	<0.1	2.8	<0.1	27	<0.01	0.064	3	23	<0.01	967	<0.001	2	0.31	<0.001	0.02	<0.1	0.32	1.8	<0.1	<0.05	1	3.5	<0.2
1207218	368007.7	6973167.5	1703	E	0.77	0.3	25.2	1.9	<1	<0.1	0.6	0.1	18	0.49	1.1	<0.5	0.5	16	<0.1	0.2	<0.1	5	<0.01	0.011	2	17	<0.01	240	<0.001	1	0.14	<0.001	0.01	<0.1	0.05	0.7	<0.1	<0.05	<1	0.6	<0.2
1207351	359675.8	6973060.9	1525	W	0.72	1.2	5.5	5	17	<0.1	3.8	0.6	22	0.54	2.6	1.3	1.1	10	<0.1	0.9	<0.1	11	<0.01	0.02	<1	14	0.02	272	<0.001	5	0.24	0.002	0.15	<0.1	0.07	0.6	<0.1	<0.05	<1	0.6	<0.2
1207352	359601.9	6972946.6	1504	W	0.6	1.2	3.6	5.2	2	0.3	1.8	0.1	16	0.35	1.6	1.3	0.8	10	<0.1	1.3	<0.1	17	<0.01	0.007	<1	16	0.02	189	0.001	3	0.22	0.001	0.16	<0.1	0.09	0.6	<0.1	0.06	<1	1	<0.2
1207353	359544.2	6972453.3	1453	W	0.73	2	25.6	9.4	69	0.2	13	2.7	45	1.27	4.8	0.8	1.8	14	<0.1	1.2	0.1	20	<0.01	0.018	1	12	0.03	538	<0.001	5	0.39	0.002	0.2	<0.1	0.2	1.4	0.1	0.07	1	1.9	<0.2
1207354	369716.7	6972879.5	1464	E	0.82	0.3	12.4	8.8	5	0.3	4.7	0.5	20	0.59	2.4	2.1	1.8	10	<0.1	1.2	0.1	12	<0.01	0.016	3	17	0.02	590	0.001	5	0.22	0.002	0.16	<0.1	0.12	0.8	<0.1	0.13	1	2.3	<0.2
1207355	369839.2	6972795.4	1474	E	0.73	0.3	31	2.5	3	0.3	1.2	0.1	22	1.13	13	4	0.4	9	<0.1	2	<0.1	18	<0.01	0.016	<1	32	<0.01	446	0.001	5	0.13	<0.001	0.06	<0.1	0.13	0.8	<0.1	<0.05	2	1.4	<0.2
1207356	369807.8	6972155.7	1366	E	0.79	0.3	64.3	3.5	9	<0.1	2.2	0.4	23	0.87	7.2	1.5	0.5	14	<0.1	4.5	0.1	26	<0.01	0.005	<1	19	0.01	293	<0.001	5	0.25	0.002	0.08	<0.1	0.09	1.9	<0.1	<0.05	1	0.9	<0.2
1207357	369860.6	6971960.3	1303	E	0.67	0.2	72.4	5	34	<0.1	6	2.2	25	1.83	13	1.4	0.3	17	<0.1	1.2	0.2	29	<0.01	0.021	<1	20	<0.01	562	<0.001	4	0.35	0.002	0.07	<0.1	0.08	1.8	<0.1	<0.05	1	0.8	<0.2
1207358	369885.3	6971818.1	1275	E	0.75	1.5	25.2	8	61	0.4	8.8	2	49	1.59	7.1	3.9	0.6	20	<0.1	3.3	0.2	20	<0.01	0.006	<1	12	0.01	761	<0.001	7	0.32	0.003	0.11	<0.1	0.16	1.4	<0.1	<0.05	1	2.2	<0.2
1207359	368239.5	6973922.9	1675	E	0.99	1.6	47.3	3.9	7	0.5	2.9	0.2	23	1.78	19	3.7	0.6	30	<0.1	3.4	0.1	36	<0.01	0.022	<1	35	<0.01	1689	<0.001	6	0.18	<0.001	0.04	<0.1	0.63	1.1	<0.1	0.06	2	2.7	<0.2
1207360	368266.4	6973882.7	1692	E	0.94	0.7	113.9																																		

Table 11: Spearhead Property - Field Observations


Property:	SPEARHEAD
Project Geologist:	Edward Dashwood
GPS Datum:	UTM NAD83
UTM Zone:	Zone 9N
Lab:	ACME Labs

Date	Observer	Claim Group (E / W)	Site Coords		Type	Description
			Easting	Northing		
June 18th 2011	ED	W	359675.0	6973061.0	Outcrop	Various types of Sedimentary rock. Med-fine grain dark almost black conglomerate? Looks like it has chert chards and fragments in it. Also a med to coarse grained D grey chert conglomerate with some stringer QVs. There is bedding or preferred orientation of fracture at 090/60.
June 18th 2011	ED	W	359601.0	6972947.0	Outcrop	Grey chert congl. Areas. With qtz veins and vnltts running through at same orientation. Veins are between 2mm and 10mm in thickness. Milky white with no obvious Mins. Veins running at approx 210/40. Bedding/fractures running at 090/56 still.
June 18th 2011	ED	W	359383.0	6972566.0	Outcrop-contact	Chert conglomerate to finely bedded dark grey/black shale. Contact runs at 100 degrees-ish. S/D of shale is 110/vert to 75. Varies. Shale and congl interbed towards the south.
June 18th 2011	ED	W	359554.0	6972475.0	Outcrop	At stream head, beds are at 120/62. Same interbedded shale, fine gr chert and med to coarse gr chrt on both side of the gully. About 50m downslope to the south west glacial material can be seen.
June 18th 2011	MG	W	3359428.0	6973419.0	Subcrop	Black shale subcrop. Not well exposed but talus trail evident.
June 18th 2011	MG	W	359335.0	6972836.0	Till	Glacial till- rouded gravels, cobbles to 15cm and coarse sands. Elev 4500ft!
June 18th 2011	MG	W	359348.0	6972805.0	Outcrop	Black shale resive weathering parting/ cleavage planes trend approx 75 degrees.
June 19th 2011	ED	E	369715.0	6972880.0	Outcrop	Grey to dark grey cherty shale. Fine grained. Some areas have lenses of lighter rock about 1cm long and 2-3mm wide. Some areas are very rusty and have green ox. On outside layer/fracs. Rusty rock is lighter in colour but ma be due to proximity to surface.
June 19th 2011	ED	E	369838.0	6972796.0	Subcrop	Change in rock type. Subcrop/float. Black/dark grey chert with qtz vnltts and stringers running through. Much harder (secondary fluid phase?) Scattered across hilltop.
June 19th 2011	ED	E	369807.0	6972156.0	Outcrop	Med-dark grey chert. Very silicified. Some qtz stringers in places. Rusted out areas with voids.
June 19th 2011	ED	E	369860.0	6971961.0	Outcrop	Dark grey chert with stringer vnltts of qtz. Also an intermixed dark blacksed rock and med grey sed rock, look like mudstones, limestones or even cherts, perhaps a breccia?. Wavy bands. Extremely rusted areas and some voids from remnant mins (sulphides?) Some shiny mins left in voids but very small and may be qtz dust.
June 19th 2011	ED	E	369874.0	6971895.0	Outcrop/float	Moved into M grey shaley unit. Some darker grey bands.
June 20th 2011	ED	E	368554.0	6973794.0	Float	Float along ridge top is cherty shale and congl/ varying level of weathering.
June 20th 2011	ED	E	368238.0	6973923.0	Outcrop	Area including and to the east of the UTMs. Outcrop, large exposure to the north. Very red rusty gossanous. Strat with S/D of (120-90)/(30-40), varies along the face. Multiple rock types. Shaley dark grey cherts with some light grey areas. Dark shales with little chert. Intermixed Qtz and light grey cherty rock. Very dark chert with stringer vnltts of qtz. D grey Chert pebble congl. Outcrop face difficult to access due to tallus face. SS mentioned smell of sulphur in the rock down slope.
June 20th 2011	ED	E	368196.0	6973676.0	Outcrop and float	Dark chert with qtz veinlets. Also grey shale float below. Outcrop of grey shale has S/D of 115/70.
June 20th 2011	ED	E	367496.0	6973727.0	Outcrop	Followed stream up. Photo taken of weathered rock in the gully making stream sed red. Investigation required. Bedding visible above. Pic taken looking 095 from GPS point.
June 20th 2011	MG	E	369042.0	6973615.0	Photo	Typical oxidization of Fe mins. On chert fracture planes.
June 21st 2011	MG	E	368691.0	6973748.0	Photo	Slicken sides textures of chert proximal to breccia zone.
June 21st 2011	MG	E	368286.0	6973457.0	Outcrop	Grey to light grey shale. S/D: 300/120
June 21st 2011	MG	E	368308.0	6973093.0	Outcrop	Black competent chert with multi directional QVs. Micro to 4mm. Bright red hematitic stains along some frac planes.
June 22nd 2011	MG	E	368287.0	6972748.0	Photo	Black chert with sworl QVs up to 1cm thick. Some qtz stringers crossing at obtuse angles.

APPENDIX III

Analytical Methods
Certificates of Analysis

SAMPLE PREPARATION

Soils, tills and sediments samples are dried at 60°C to minimize loss of volatile elements such as mercury). The samples are then screened to -180 microns (-80 mesh ASTM).

For rock samples, 1 kilogram of sample is crushed to 80% passing 10 mesh. A 250 gram split is then pulverized to 85% passing 200 mesh.

ANALYSIS

Sample splits of 0.15 grams are leached in hot (95°C) aqua regia followed by ICP-MS analysis for the 36 elements shown in the table below (1DX2 analytical suite). Any sample with a gold content 500ppb is then analyzed for Au by fire assay technique.

Element	Lower Limit	Upper Limit
Ag*	0.1 ppm	100 ppm
Al*	0.01 %	10 %
As	0.5 ppm	10000 ppm
Au*	0.5 ppb	100 ppm
B*†	20 ppm	2000 ppm
Ba*	1 ppm	10000 ppm
Bi	0.1 ppm	2000 ppm
Ca*	0.01 %	40 %
Cd	0.1 ppm	2000 ppm
Co	0.1 ppm	2000 ppm
Cr*	1 ppm	10000 ppm
Cu	0.1 ppm	10000 ppm
Fe*	0.01 %	40 %
Ga*	1 ppm	1000 ppm
Hg†	0.01 ppm	50 ppm
K*	0.01 %	10 %
La*	1 ppm	10000 ppm
Mg*	0.01 %	30 %
Mn*	1 ppm	10000 ppm
Mo	0.1 ppm	2000 ppm
Na*	0.001 %	5 %
Ni	0.1 ppm	10000 ppm
P*	0.001 %	5 %
Pb	0.1 ppm	10000 ppm
S*	0.05 %	10 %
Sb	0.1 ppm	2000 ppm
Sc	0.1 ppm	100 ppm
Se	0.5 ppm	100 ppm
Sr*	1 ppm	10000 ppm
Te	0.2 ppm	1000 ppm
Th*	0.1 ppm	2000 ppm
Ti*	0.001 %	5 %
Tl†	0.1 ppm	1000 ppm
V*	2 ppm	10000 ppm
W*	0.1 ppm	100 ppm
Zn	1 ppm	10000 ppm

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

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



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Submitted By:

Lucy Zhang

Receiving Lab:

Canada-Whitehorse

Received:

June 29, 2011

Report Date:

July 12, 2011

Page:

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CERTIFICATE OF ANALYSIS

WHI11000345.1

CLIENT JOB INFORMATION

Project: SPE
Shipment ID: SPE-1
P.O. Number: 225
Number of Samples: 225

SAMPLE DISPOSAL

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

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

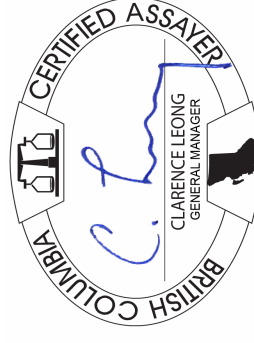
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	225	Dry at 60C			WHI
SS80	225	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	225	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldstrike Resources (Petro One Energy Corp)
1300 - 111 West Georgia Street
Vancouver BC V6E 4M3
Canada

CC: Daithi Mac Gerailt



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



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Project:

SPE

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July 12, 2011

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000345.1

Method Analyte Unit	1DX15 1DX15																							
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm				
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				
1206501	Soil	2.9	52.8	26.7	113	0.1	23.5	22.2	4640	2.80	16.6	2.1	0.7	15	0.7	1.0	0.4	27	0.06	0.086	6			
1206502	Soil	2.6	29.5	19.5	89	<0.1	18.3	11.3	1120	3.13	23.0	3.2	0.8	10	0.3	1.5	0.5	46	0.04	0.075	8			
1206503	Soil	3.1	41.5	17.1	96	<0.1	24.4	12.1	703	3.06	40.1	2.8	1.5	13	0.3	2.2	0.8	49	0.07	0.071	10			
1206504	Soil	4.4	39.6	14.7	87	0.1	17.1	4.1	142	2.34	11.0	3.0	0.6	15	0.3	1.4	0.3	47	0.04	0.069	5			
1206505	Soil	3.8	54.6	22.4	144	0.2	34.9	13.1	442	3.53	19.2	3.2	2.1	24	0.4	2.2	0.5	44	0.05	0.084	8			
1206506	Soil	2.5	36.8	9.4	51	0.3	10.1	3.6	125	1.62	22.1	2.1	0.4	12	0.2	1.3	0.6	60	0.08	0.058	9			
1206507	Soil	3.7	47.6	18.5	132	0.4	27.1	11.6	634	3.04	65.3	5.6	3.4	22	0.4	3.0	0.9	51	0.12	0.118	11			
1206508	Soil	2.6	31.4	13.8	87	0.2	18.0	6.0	205	2.35	16.0	1.6	0.7	13	0.2	1.6	0.3	44	0.04	0.057	7			
1206509	Soil	1.1	16.6	4.1	20	0.2	4.4	1.4	47	0.71	10.9	8.2	<0.1	7	0.2	0.5	1.8	27	0.02	0.025	4			
1206510	Soil	2.8	33.4	16.4	105	<0.1	23.4	7.3	194	3.10	27.0	3.9	3.2	11	0.2	1.9	0.5	61	0.04	0.036	10			
1206511	Soil	2.4	23.4	12.0	60	0.1	12.9	4.1	114	2.35	17.3	1.7	0.8	10	<0.1	1.2	0.5	49	0.02	0.050	7			
1206512	Soil	2.4	29.9	13.8	79	0.2	16.4	6.8	181	2.75	15.1	1.1	2.0	19	0.3	1.3	0.4	36	0.07	0.042	6			
1206513	Soil	3.4	44.6	16.5	117	0.4	27.5	8.1	223	3.22	24.5	4.7	3.5	13	0.3	1.7	0.5	52	0.03	0.069	7			
1206514	Soil	0.7	14.3	4.4	22	0.2	4.7	2.4	112	0.73	3.3	<0.5	0.1	6	0.2	0.4	0.1	19	0.03	0.025	3			
1206515	Soil	1.8	46.2	15.1	94	0.7	34.3	7.1	310	1.93	12.4	2.7	1.5	33	0.7	0.7	0.5	40	0.28	0.069	7			
1206516	Soil	2.1	23.4	12.0	77	0.1	11.6	5.0	191	1.91	11.2	0.6	1.0	10	0.3	1.1	0.3	42	0.03	0.039	7			
1206517	Soil	1.8	24.7	8.1	58	0.2	8.8	3.4	112	1.47	15.6	2.5	0.6	8	0.3	1.1	0.3	36	0.03	0.029	4			
1206518	Soil	2.7	32.5	18.0	116	0.3	25.5	9.4	438	2.77	13.2	4.6	2.5	15	0.5	1.7	0.3	51	0.06	0.064	7			
1206519	Soil	0.8	33.9	4.7	38	0.8	39.6	3.0	297	0.74	3.1	5.7	0.4	48	0.3	0.6	0.1	16	0.48	0.062	4			
1206520	Soil	0.8	54.2	7.0	39	0.6	28.3	4.0	197	1.09	3.8	3.4	0.4	61	0.4	0.5	0.2	21	0.71	0.064	5			
1206521	Soil	3.1	28.8	16.0	125	0.2	16.6	8.1	360	2.66	12.0	<0.5	1.3	11	0.4	1.9	0.4	34	0.05	0.069	4			
1206522	Soil	3.9	38.3	25.7	176	0.2	26.3	18.3	1182	3.99	17.7	3.3	1.2	16	1.0	2.6	0.3	55	0.06	0.109	7			
1206523	Soil	7.3	135.3	7.2	7	3.2	11.6	0.5	12	0.62	3.0	5.2	1.2	6	0.1	5.0	0.2	105	0.01	0.026	4			
1206524	Soil	3.8	26.0	8.3	41	1.0	8.6	2.5	46	1.14	10.0	0.7	0.1	24	0.1	1.9	0.2	38	0.02	0.044	5			
1206525	Soil	10.8	32.5	19.2	57	3.7	10.5	2.0	63	2.02	22.7	3.7	0.1	74	0.1	8.0	0.3	181	0.03	0.112	8			
1206526	Soil	5.6	33.6	10.4	94	2.1	20.6	5.0	113	2.44	16.5	8.0	1.9	25	0.2	3.4	0.2	71	0.04	0.090	9			
1206527	Soil	2.7	12.9	7.4	14	4.4	3.7	0.9	18	0.66	3.8	1.2	<0.1	32	<0.1	1.4	0.2	34	0.04	0.037	5			
1206528	Soil	10.0	60.2	19.8	67	2.6	8.2	1.5	29	6.40	61.1	7.0	1.0	32	<0.1	9.2	0.3	85	<0.01	0.121	2			
1206529	Soil	5.6	34.2	12.7	99	0.2	20.2	5.4	133	2.71	15.9	2.3	1.2	17	<0.1	2.4	0.2	70	0.01	0.073	6			
1206530	Soil	8.9	40.7	18.2	142	0.6	39.1	16.6	727	3.80	24.2	3.6	3.9	20	0.7	3.3	0.3	25	0.12	0.184	4			



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																Se ppm	Te ppm
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm		
1206501	Soil	13	0.18	380	0.008	2	0.88	0.006	0.09	<0.1	0.06	1.7	0.2	<0.05	3	0.7	<0.2		
1206502	Soil	22	0.21	188	0.009	3	1.01	0.004	0.11	0.2	0.04	1.1	0.1	<0.05	5	0.6	<0.2		
1206503	Soil	25	0.32	274	0.012	3	1.28	0.005	0.12	0.4	0.04	2.3	0.2	<0.05	5	1.2	<0.2		
1206504	Soil	17	0.16	268	0.005	3	0.83	0.003	0.13	<0.1	0.09	1.2	0.2	<0.05	4	1.1	<0.2		
1206505	Soil	25	0.34	263	0.010	3	1.24	0.004	0.14	0.2	0.07	2.1	0.3	0.06	4	1.4	<0.2		
1206506	Soil	17	0.15	224	0.017	2	0.89	0.009	0.08	0.3	0.04	1.0	0.2	<0.05	5	1.0	<0.2		
1206507	Soil	25	0.32	234	0.020	2	1.44	0.006	0.12	0.5	0.09	2.2	0.2	<0.05	5	1.4	<0.2		
1206508	Soil	16	0.17	145	0.012	2	0.81	0.006	0.09	0.2	0.03	1.1	0.1	<0.05	4	1.3	<0.2		
1206509	Soil	5	0.05	111	0.013	1	0.39	0.014	0.04	0.4	0.03	0.2	<0.1	<0.05	3	<0.5	<0.2		
1206510	Soil	22	0.26	164	0.016	2	1.40	0.005	0.09	0.2	0.02	1.9	0.2	<0.05	6	1.1	<0.2		
1206511	Soil	14	0.10	106	0.011	2	0.78	0.004	0.08	0.2	0.02	0.9	0.1	<0.05	5	0.6	<0.2		
1206512	Soil	15	0.15	381	0.002	1	0.92	0.005	0.11	<0.1	0.02	1.6	0.1	<0.05	4	0.8	<0.2		
1206513	Soil	24	0.23	168	0.005	3	1.65	0.005	0.11	0.2	0.08	2.3	0.3	<0.05	5	1.0	<0.2		
1206514	Soil	5	0.03	102	0.006	2	0.48	0.018	0.05	<0.1	0.03	0.4	<0.1	<0.05	2	<0.5	<0.2		
1206515	Soil	14	0.21	500	0.004	1	1.16	0.013	0.11	0.1	0.17	1.8	0.2	<0.05	3	1.5	<0.2		
1206516	Soil	12	0.11	102	0.012	2	0.70	0.006	0.08	0.1	0.01	0.9	0.1	<0.05	5	0.5	<0.2		
1206517	Soil	9	0.05	126	0.008	1	0.54	0.009	0.08	0.1	0.03	0.8	0.1	<0.05	4	<0.5	<0.2		
1206518	Soil	19	0.15	129	0.013	<1	1.24	0.007	0.09	0.1	0.05	1.6	0.2	<0.05	4	0.7	<0.2		
1206519	Soil	7	0.12	335	0.008	3	0.72	0.026	0.07	<0.1	0.19	1.3	0.1	0.06	2	3.4	<0.2		
1206520	Soil	9	0.12	497	0.009	2	0.87	0.015	0.06	<0.1	0.16	1.2	<0.1	0.07	3	2.3	<0.2		
1206521	Soil	13	0.12	131	0.005	1	0.63	0.003	0.08	<0.1	0.04	1.2	0.2	<0.05	3	1.3	<0.2		
1206522	Soil	19	0.19	188	0.008	2	1.12	0.004	0.10	0.1	0.05	1.6	0.2	<0.05	5	1.8	<0.2		
1206523	Soil	54	0.02	410	<0.001	1	0.45	0.001	0.06	<0.1	0.67	2.2	<0.1	<0.05	2	9.6	0.3		
1206524	Soil	9	0.01	587	0.006	<1	0.55	0.009	0.04	0.1	0.06	0.3	<0.1	<0.05	3	2.0	<0.2		
1206525	Soil	25	0.02	406	0.004	<1	0.40	0.006	0.11	<0.1	0.10	0.4	0.3	0.10	5	14.9	0.3		
1206526	Soil	23	0.16	345	0.007	2	1.38	0.003	0.08	0.1	0.22	1.8	0.2	<0.05	4	2.3	<0.2		
1206527	Soil	15	0.01	439	0.003	<1	0.35	0.009	0.07	<0.1	0.04	0.1	<0.1	0.06	3	2.9	<0.2		
1206528	Soil	27	0.01	383	0.002	2	0.43	0.006	0.19	<0.1	0.12	1.4	0.3	0.28	4	18.0	0.4		
1206529	Soil	15	0.09	249	0.003	<1	0.83	0.004	0.06	0.1	0.04	1.2	0.2	<0.05	4	1.4	<0.2		
1206530	Soil	15	0.14	454	0.002	<1	0.99	0.002	0.08	<0.1	0.44	2.5	0.4	<0.05	2	2.8	<0.2		



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm
1206531	Soil	9	0.01	186	<0.001	<1	0.35	0.004	0.07	<0.1	0.06	1.9	<0.1	<0.05	2	<0.5	<0.2
1206532	Soil	13	0.03	216	0.003	<1	0.45	0.006	0.06	<0.1	0.04	2.0	0.1	<0.05	3	0.6	<0.2
1206533	Soil	18	0.15	562	0.003	<1	0.80	0.003	0.09	<0.1	0.20	2.9	0.2	<0.05	2	1.2	<0.2
1206534	Soil	10	0.12	436	<0.001	<1	1.02	0.003	0.03	<0.1	0.95	3.5	0.7	<0.05	1	3.2	<0.2
1206535	Soil	14	0.08	325	0.003	<1	0.55	0.005	0.05	<0.1	0.04	1.8	<0.1	<0.05	2	0.8	<0.2
1206536	Soil	18	0.15	371	0.003	1	0.89	0.004	0.09	<0.1	0.10	1.9	0.2	<0.05	3	1.1	<0.2
1206537	Soil	19	0.24	343	0.007	1	1.01	0.004	0.08	0.1	0.16	1.7	0.1	<0.05	3	1.3	<0.2
1206538	Soil	22	0.16	1399	0.017	<1	0.93	0.003	0.06	0.2	0.18	1.2	0.2	<0.05	4	3.1	<0.2
1206539	Soil	22	0.05	973	0.005	3	0.59	0.004	0.07	0.2	0.13	1.5	0.2	<0.05	4	1.9	<0.2
1206540	Soil	21	0.06	1313	0.004	3	0.49	0.001	0.07	0.1	0.37	1.3	0.2	<0.05	3	4.9	<0.2
1206541	Soil	11	0.02	248	0.008	1	0.42	0.016	0.04	<0.1	0.07	0.2	<0.1	<0.05	2	1.6	<0.2
1206542	Soil	20	0.04	414	0.004	2	0.66	0.007	0.07	0.1	0.10	1.7	0.2	<0.05	3	2.2	<0.2
1206543	Soil	16	0.37	557	0.003	2	0.99	0.004	0.09	<0.1	0.70	3.6	1.1	<0.05	2	3.4	<0.2
1206544	Soil	16	0.37	695	0.002	2	1.05	0.004	0.09	<0.1	0.11	4.1	0.1	<0.05	3	0.6	<0.2
1206545	Soil	12	0.03	405	0.011	<1	0.33	0.016	0.05	<0.1	0.09	0.6	<0.1	<0.05	2	1.7	<0.2
1206546	Soil	13	0.03	437	0.001	1	0.45	0.004	0.08	<0.1	0.12	0.5	0.3	<0.05	2	2.3	<0.2
1206547	Soil	19	0.04	989	0.001	3	0.52	0.003	0.09	0.1	0.37	3.4	0.3	<0.05	2	4.1	<0.2
1206548	Soil	9	0.03	70	0.010	<1	0.41	0.012	0.02	<0.1	0.04	0.1	<0.1	<0.05	2	0.8	<0.2
1206549	Soil	14	0.02	357	0.007	<1	0.48	0.006	0.03	0.2	0.07	0.4	0.1	<0.05	3	1.8	<0.2
1206550	Soil	16	0.03	745	0.003	2	0.49	0.003	0.09	0.2	0.40	0.9	0.2	<0.05	3	2.6	<0.2
1206551	Soil	21	0.10	523	0.004	<1	0.63	0.003	0.06	0.2	0.36	1.1	0.2	<0.05	3	3.4	<0.2
1206552	Soil	17	0.10	661	0.006	3	0.64	0.006	0.10	0.4	0.23	1.4	0.7	<0.05	2	5.7	<0.2
1206553	Soil	14	0.04	711	0.004	3	0.44	0.007	0.18	0.3	0.31	0.8	3.5	0.26	2	7.8	<0.2
1206554	Soil	13	0.03	806	0.002	3	0.50	0.007	0.10	0.1	0.50	0.9	1.5	0.07	2	4.9	<0.2
1206555	Soil	9	0.03	356	0.002	<1	0.46	0.007	0.07	0.2	0.12	0.2	0.6	<0.05	2	2.4	<0.2
1206556	Soil	12	0.06	122	0.005	1	0.62	0.007	0.06	<0.1	0.02	0.1	0.2	<0.05	5	0.9	<0.2
1206557	Soil	21	0.16	158	0.025	1	0.75	0.005	0.07	0.1	0.05	1.1	0.2	<0.05	5	1.8	<0.2
1206558	Soil	25	0.21	222	0.017	2	0.91	0.006	0.09	0.2	0.04	1.2	0.2	<0.05	5	1.2	<0.2
1206559	Soil	27	0.10	441	0.013	2	0.68	0.005	0.11	0.2	0.04	1.4	0.2	0.14	5	4.4	<0.2
1206560	Soil	11	0.03	237	0.008	2	0.38	0.005	0.09	0.1	0.01	0.6	0.2	0.09	3	3.2	<0.2



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Method Analyte Unit	1DX15 1DX15																								
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	ppm	ppm	ppm	ppm	
	0.1	0.1	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	ppm	ppm	ppm	ppm	
1206561	Soil	12.5	51.8	19.4	118	1.2	21.6	4.2	120	2.58	14.5	<0.5	1.9	57	0.6	3.0	0.4	81	0.01	0.048	9				
1206562	Soil	36.2	278.6	15.5	578	2.1	141.1	15.5	534	4.92	24.8	5.8	2.4	47	1.6	9.7	0.3	112	<0.01	0.063	7				
1206563	Soil	5.3	131.9	26.3	238	0.3	70.2	36.7	3049	5.39	13.8	5.3	4.4	76	1.0	1.7	0.3	43	0.37	0.260	25				
1206564	Soil	5.2	51.6	13.3	117	0.2	31.3	15.5	2698	2.17	7.4	2.6	0.3	50	0.7	1.5	0.3	32	0.37	0.081	11				
1206565	Soil	3.5	158.7	17.7	130	<0.1	41.0	13.9	315	2.95	18.8	0.9	0.2	39	0.3	1.5	0.3	58	0.02	0.061	9				
1206566	Soil	0.3	15.9	3.3	10	0.1	7.0	1.4	74	0.31	<0.5	<0.5	<0.1	15	0.2	0.1	<0.1	8	0.07	0.047	4				
1206567	Soil	2.5	22.9	8.9	46	<0.1	13.2	4.7	403	1.16	4.3	2.8	0.1	16	0.2	0.8	0.1	28	0.03	0.032	5				
1206568	Soil	1.9	49.1	6.5	43	0.9	21.5	6.2	1220	1.14	3.8	9.9	0.7	34	0.3	0.6	0.1	37	0.26	0.113	7				
1206569	Soil	3.7	80.0	13.4	165	1.6	59.8	14.5	3050	2.37	7.4	9.2	1.7	53	2.3	1.3	0.2	55	0.38	0.116	10				
1206570	Soil	0.7	22.2	7.5	32	1.5	11.4	1.8	95	0.77	3.5	8.4	<0.1	17	0.3	0.3	0.4	30	0.08	0.066	5				
1206701	Soil	2.8	39.5	18.0	241	1.1	64.4	8.1	266	4.42	15.6	4.8	2.0	8	0.5	2.2	0.4	79	0.04	0.051	9				
1206702	Soil	5.9	71.4	18.8	275	1.4	59.5	11.5	317	3.83	14.8	<0.5	0.2	18	0.8	3.2	0.3	65	0.05	0.102	6				
1206703	Soil	6.3	53.6	22.9	170	0.9	33.0	6.2	201	4.16	12.7	1.4	2.7	58	0.3	2.3	0.3	52	0.02	0.052	4				
1206704	Soil	10.9	83.6	25.8	323	1.1	47.1	6.2	179	7.72	48.7	5.2	3.0	121	0.4	8.3	0.4	80	0.01	0.134	7				
1206705	Soil	15.1	58.5	21.1	244	1.1	39.6	8.3	378	4.99	28.8	4.6	1.4	63	1.1	6.1	0.3	123	0.05	0.087	7				
1206706	Soil	2.1	43.8	7.5	31	<0.1	14.8	7.6	539	1.46	11.4	1.3	<0.1	4	0.1	0.7	0.3	42	0.01	0.041	4				
1206707	Soil	6.2	102.3	15.9	68	<0.1	20.1	13.9	558	3.72	8.8	1.3	1.2	14	<0.1	1.4	0.2	20	0.02	0.067	7				
1206708	Soil	0.6	35.1	2.7	11	0.3	14.8	2.1	284	0.51	2.5	1.8	0.2	123	0.2	0.5	<0.1	12	1.05	0.061	3				
1206709	Soil	8.0	39.0	19.5	64	<0.1	16.3	11.5	352	3.25	27.9	2.2	1.6	15	<0.1	2.1	0.3	67	0.05	0.029	8				
1206710	Soil	2.6	38.5	16.0	89	<0.1	21.8	8.2	448	3.09	11.3	0.6	2.8	12	0.1	1.1	0.3	81	0.05	0.029	11				
1206711	Soil	1.3	72.1	15.1	90	0.7	33.9	10.1	700	2.08	9.5	4.5	0.8	131	0.7	1.1	0.3	42	1.20	0.065	7				
1206712	Soil	3.3	29.3	17.8	110	0.2	21.4	14.6	573	2.66	10.7	1.5	1.6	75	0.4	1.2	0.3	49	0.54	0.074	5				
1206713	Soil	1.9	70.9	13.9	129	1.0	37.0	9.2	573	1.81	8.2	8.9	1.5	72	1.1	1.2	0.2	41	1.10	0.076	7				
1206714	Soil	10.0	113.8	16.9	223	2.0	68.6	13.0	1408	3.10	21.2	16.1	2.9	87	1.5	2.0	0.4	64	0.99	0.101	11				
1206715	Soil	5.7	91.4	14.9	183	1.3	52.3	9.9	640	2.56	13.6	12.9	1.9	67	1.1	1.4	0.4	59	0.79	0.081	10				
1206716	Soil	4.4	23.9	10.6	55	1.0	12.8	3.8	158	2.07	16.0	2.1	0.1	13	0.1	1.8	0.3	79	0.04	0.063	11				
1206717	Soil	4.3	24.7	10.0	77	2.2	17.7	5.8	173	2.38	16.3	4.8	0.2	12	0.2	2.1	0.2	63	0.06	0.067	9				
1206718	Soil	5.3	53.3	16.4	93	5.2	22.5	6.5	178	3.38	33.1	13.2	1.9	22	0.2	6.1	0.2	86	0.04	0.057	9				
1206719	Soil	10.8	33.8	15.3	69	2.5	20.2	5.6	207	3.29	30.4	9.8	0.9	36	0.1	3.5	0.3	165	0.09	0.132	11				
1206720	Soil	3.8	43.9	7.7	41	1.3	10.7	1.6	28	0.98	5.5	3.2	0.1	13	0.4	0.8	0.2	39	0.03	0.061	8				



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm
1206561	Soil	16	0.03	257	0.008	1	0.01	0.001	0.01	0.13	0.1	0.04	1.1	0.2	0.25	4	1.9
1206562	Soil	22	0.04	258	0.003	2	1.30	0.003	0.09	<0.1	0.40	5.6	0.6	0.08	3	6.1	<0.2
1206563	Soil	22	0.20	795	0.006	4	1.02	0.008	0.15	<0.1	0.07	4.8	0.2	0.07	3	1.2	0.2
1206564	Soil	12	0.11	457	0.007	2	0.68	0.019	0.08	<0.1	0.08	1.3	0.2	0.06	3	0.7	<0.2
1206565	Soil	18	0.02	273	0.006	2	0.60	0.009	0.04	0.1	0.03	1.2	<0.1	<0.05	3	0.6	0.2
1206566	Soil	5	0.03	189	0.008	<1	0.42	0.025	0.04	<0.1	0.07	0.8	<0.1	<0.05	1	<0.5	<0.2
1206567	Soil	10	0.05	338	0.011	2	0.39	0.015	0.07	<0.1	0.02	0.7	0.1	<0.05	2	<0.5	<0.2
1206568	Soil	16	0.14	572	0.008	3	0.90	0.019	0.09	<0.1	0.30	2.3	0.2	<0.05	3	0.7	<0.2
1206569	Soil	23	0.26	963	0.006	4	1.20	0.010	0.11	<0.1	0.54	3.8	0.2	<0.05	4	3.4	<0.2
1206570	Soil	15	0.10	248	0.006	3	0.83	0.019	0.10	<0.1	0.35	0.5	0.3	<0.05	3	<0.5	<0.2
1206701	Soil	28	0.18	145	0.026	3	1.39	0.004	0.10	0.1	0.16	2.3	0.1	<0.05	6	1.3	<0.2
1206702	Soil	22	0.06	284	0.005	2	0.72	0.004	0.13	<0.1	0.09	0.7	0.1	<0.05	3	2.5	<0.2
1206703	Soil	16	0.07	351	0.004	3	0.78	0.003	0.22	<0.1	0.28	2.4	0.5	0.13	3	2.6	<0.2
1206704	Soil	26	0.10	230	0.004	2	1.02	0.003	0.13	<0.1	0.06	3.5	0.3	0.08	4	3.1	0.3
1206705	Soil	28	0.17	514	0.007	4	1.16	0.006	0.22	<0.1	0.16	2.4	0.6	0.12	5	6.3	<0.2
1206706	Soil	13	0.03	91	0.004	2	0.47	0.006	0.06	<0.1	0.02	0.4	<0.1	<0.05	4	<0.5	<0.2
1206707	Soil	12	0.13	620	0.005	2	0.90	0.007	0.13	<0.1	0.04	1.8	0.1	0.07	4	<0.5	<0.2
1206708	Soil	5	0.18	972	0.016	2	0.67	0.043	0.03	<0.1	0.12	0.9	<0.1	0.15	2	2.7	<0.2
1206709	Soil	21	0.14	207	0.016	2	1.23	0.009	0.08	0.1	0.02	1.6	0.2	<0.05	7	<0.5	<0.2
1206710	Soil	30	0.28	230	0.016	2	2.09	0.006	0.07	0.1	0.02	2.5	0.2	<0.05	7	0.7	<0.2
1206711	Soil	19	0.37	670	0.007	4	1.20	0.017	0.13	<0.1	0.25	2.9	0.2	0.11	3	2.8	<0.2
1206712	Soil	24	0.22	203	0.010	2	1.20	0.015	0.09	0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
1206713	Soil	17	0.25	388	0.006	4	1.14	0.027	0.11	<0.1	0.26	2.6	0.2	<0.05	3	1.1	<0.2
1206714	Soil	28	0.44	960	0.009	5	1.43	0.014	0.19	<0.1	0.40	4.5	0.3	0.11	4	4.5	<0.2
1206715	Soil	25	0.39	542	0.007	5	1.46	0.010	0.16	0.2	0.50	4.0	0.3	<0.05	4	1.9	<0.2
1206716	Soil	24	0.12	185	0.011	1	0.86	0.006	0.08	0.1	0.07	0.5	0.1	<0.05	5	1.1	<0.2
1206717	Soil	25	0.22	186	0.009	2	0.98	0.006	0.07	0.1	0.15	0.7	0.2	<0.05	4	1.5	<0.2
1206718	Soil	39	0.31	319	0.015	2	1.51	0.005	0.11	0.2	0.28	2.2	0.2	0.06	6	4.5	<0.2
1206719	Soil	42	0.26	375	0.021	2	1.21	0.006	0.17	0.2	0.23	2.8	0.3	0.23	6	7.9	<0.2
1206720	Soil	24	0.02	198	0.005	1	0.72	0.013	0.06	<0.1	0.09	0.2	<0.1	<0.05	3	2.7	<0.2



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



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm
1206721	Soil	6	0.02	41	0.014	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.05	1	0.5	0.2
1206722	Soil	12	0.02	214	0.006	<1	0.33	0.004	0.07	0.1	0.04	0.2	0.2	0.12	4	2.0	<0.2
1206723	Soil	16	0.09	210	0.008	1	0.62	0.005	0.07	0.2	0.13	0.6	0.2	0.09	4	1.6	<0.2
1206724	Soil	31	0.20	518	0.005	2	1.24	0.005	0.19	0.2	0.80	1.9	0.6	0.32	5	7.2	0.2
1206725	Soil	35	0.01	369	0.003	3	0.36	0.004	0.17	<0.1	0.35	1.1	0.5	0.33	3	8.7	0.4
1206726	Soil	23	0.05	360	0.003	2	0.63	0.004	0.21	<0.1	0.13	1.9	0.5	0.42	4	8.0	0.3
1206727	Soil	27	0.24	208	0.003	<1	1.56	0.004	0.11	0.1	0.13	2.0	0.3	0.10	4	3.7	<0.2
1206728	Soil	25	0.35	417	0.003	1	1.31	0.003	0.11	<0.1	0.20	2.6	0.2	<0.05	3	1.4	<0.2
1206729	Soil	23	0.19	170	0.006	3	1.34	0.004	0.08	0.1	0.08	1.7	0.2	<0.05	4	1.6	<0.2
1206730	Soil	23	0.28	261	0.003	2	1.25	0.002	0.09	<0.1	0.09	2.0	0.2	<0.05	3	1.6	<0.2
1206731	Soil	22	0.23	140	0.004	2	1.03	0.003	0.09	0.1	0.04	1.4	0.2	<0.05	4	1.2	<0.2
1206732	Soil	33	0.01	615	0.006	4	0.29	0.007	0.13	0.2	1.70	1.9	0.3	0.26	4	3.2	0.2
1206733	Soil	21	0.03	682	0.006	3	0.46	0.002	0.08	0.2	0.22	1.3	0.3	0.08	4	2.1	<0.2
1206734	Soil	28	0.08	477	0.004	4	0.60	0.003	0.19	0.2	0.29	2.0	0.6	0.27	4	7.2	<0.2
1206735	Soil	27	0.03	1112	0.004	6	0.33	0.008	0.10	<0.1	0.30	2.4	0.6	0.11	4	8.2	0.2
1206736	Soil	21	0.01	156	0.001	4	0.18	0.003	0.28	<0.1	0.63	2.4	0.9	0.52	3	13.3	0.3
1206737	Soil	13	0.03	550	0.003	3	0.28	0.003	0.14	<0.1	0.58	1.0	0.4	0.21	2	8.2	0.2
1206738	Soil	45	0.02	138	0.001	2	0.29	0.005	0.45	<0.1	0.70	2.8	1.0	0.90	6	8.5	0.3
1206739	Soil	21	0.15	247	0.011	1	0.81	0.003	0.15	0.2	0.11	1.0	0.2	0.20	6	5.3	0.2
1206740	Soil	31	0.08	439	0.004	2	0.67	0.004	0.24	<0.1	0.29	1.6	0.5	0.39	7	4.7	0.2
1206741	Soil	25	0.04	173	0.006	4	0.27	0.003	0.09	<0.1	1.10	1.2	0.2	0.13	3	3.2	0.2
1206742	Soil	24	0.15	318	0.006	2	0.79	0.005	0.13	0.1	0.18	0.8	0.3	0.12	4	2.7	<0.2
1206743	Soil	12	0.03	144	0.003	1	0.37	0.011	0.08	<0.1	0.04	0.2	0.2	<0.05	3	1.0	<0.2
1206744	Soil	6	0.02	51	0.007	<1	0.21	0.013	0.04	<0.1	0.04	0.4	<0.1	0.07	2	<0.5	<0.2
1206745	Soil	27	0.08	450	0.004	2	0.80	0.010	0.17	<0.1	0.12	1.3	0.5	0.16	3	2.3	<0.2
1206746	Soil	23	0.20	174	0.005	3	1.06	0.003	0.12	0.1	0.09	1.5	0.2	<0.05	4	1.5	<0.2
1206747	Soil	14	0.02	116	0.006	<1	0.46	0.006	0.06	<0.1	0.03	0.3	<0.1	<0.05	3	0.9	<0.2
1206748	Soil	35	0.02	422	0.005	2	0.30	0.016	0.16	<0.1	0.40	3.4	0.5	0.30	3	4.6	0.3
1206749	Soil	44	0.03	397	0.002	2	0.57	0.005	0.22	<0.1	0.82	3.4	0.5	0.39	6	9.4	0.5
1206750	Soil	40	0.04	524	0.001	2	1.33	0.003	0.18	<0.1	1.90	11.9	1.2	0.34	3	12.0	0.2



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Method Analyte	Unit	1DX15																		
		Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	La 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
	Soil	12.1	90.2	16.5	51	2.9	16.0	2.4	72	2.14	22.7	12.0	1.9	37	0.2	8.4	0.3	78	0.03	0.072
	Soil	6.9	33.9	15.0	27	2.7	8.4	1.0	33	1.35	10.2	5.7	0.2	61	0.1	2.2	0.3	61	0.03	0.077
	Soil	18.5	98.6	10.4	9	4.2	22.6	0.2	7	0.50	4.0	5.3	1.8	13	0.2	7.0	0.2	57	0.01	0.025
	Soil	9.1	172.9	19.1	52	6.5	17.4	2.8	161	2.66	16.0	14.7	2.2	74	0.5	4.8	0.3	90	0.02	0.106
	Soil	7.2	39.1	14.4	60	1.5	12.3	2.5	64	1.84	13.9	3.6	0.5	43	0.1	2.0	0.3	93	0.02	0.053
	Soil	3.6	103.4	6.1	3	2.8	7.7	<0.1	2	0.43	3.0	5.0	0.4	18	<0.1	3.4	0.1	45	0.01	0.013
	Soil	1.4	75.0	5.7	49	1.2	13.3	3.2	151	1.00	4.2	2.5	<0.1	27	0.9	0.8	<0.1	35	0.04	0.051
	Soil	4.2	32.9	11.9	70	0.7	13.2	2.6	85	1.83	10.8	1.0	0.3	23	0.1	2.1	0.2	76	0.02	0.056
	Soil	3.0	44.6	7.0	51	0.5	10.6	1.5	46	1.40	5.4	0.8	0.1	16	0.2	1.2	0.2	36	0.02	0.052
	Soil	5.2	93.1	16.3	178	1.2	61.4	8.4	439	2.31	13.9	17.8	1.5	60	1.5	3.4	0.3	66	0.24	0.132
	Soil	2.8	21.1	9.9	87	0.2	15.7	4.0	228	2.06	8.3	3.6	1.9	12	0.2	1.5	0.2	57	0.03	0.070
	Soil	2.6	14.8	9.6	56	0.1	9.2	2.4	173	1.25	7.5	<0.5	0.1	12	0.1	1.1	0.2	53	0.03	0.050
	Soil	2.2	47.5	14.3	60	0.5	16.2	4.6	165	2.28	14.3	6.3	2.5	18	0.2	2.0	0.2	47	0.10	0.056
	Soil	3.5	98.9	22.4	343	0.7	87.8	20.0	1131	4.31	17.4	4.7	3.3	23	1.8	5.1	0.3	45	0.09	0.073
	Soil	2.2	36.3	15.2	141	0.2	40.9	11.0	632	2.38	12.6	4.3	0.5	12	0.6	2.3	0.2	44	0.07	0.070
	Soil	3.1	26.7	16.6	91	0.2	17.9	4.4	159	2.34	15.9	1.1	0.9	23	0.2	2.5	0.4	51	0.04	0.041
	Soil	2.8	39.7	17.9	144	0.9	31.2	14.5	827	3.37	17.3	3.8	1.4	24	0.8	2.7	0.4	63	0.05	0.077
	Soil	3.3	60.2	21.0	198	0.7	36.9	10.2	368	3.51	24.5	2.9	0.6	18	1.1	4.7	0.4	61	0.03	0.067
	Soil	4.0	101.4	33.0	160	0.4	29.5	5.9	142	4.16	23.3	3.0	3.3	39	0.3	3.6	0.5	58	0.02	0.077
	Soil	2.8	43.4	15.0	98	0.6	19.5	3.9	138	2.25	14.6	2.3	0.1	15	0.3	2.2	0.4	47	0.02	0.123
	Soil	3.1	73.8	21.9	143	0.6	26.2	7.2	313	3.63	20.8	3.7	1.4	21	0.7	3.0	0.5	60	0.04	0.060
	Soil	3.4	60.7	16.3	150	0.4	33.2	8.9	229	3.06										



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15															
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm
1206751	Soil	29	0.06	362	0.004	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.05	1	0.5	0.2
1206752	Soil	18	0.02	611	0.004	2	0.47	0.008	0.13	<0.1	0.25	0.8	0.5	0.20	4	4.2	0.2
1206753	Soil	28	0.01	774	0.005	3	0.17	0.002	0.14	<0.1	2.28	1.8	0.3	0.13	2	9.1	<0.2
1206754	Soil	35	0.02	477	0.002	3	0.50	0.004	0.22	<0.1	1.34	5.9	0.5	0.43	2	8.8	0.3
1206755	Soil	19	0.02	262	0.008	<1	0.43	0.005	0.13	<0.1	0.09	0.8	0.4	0.20	4	3.2	<0.2
1206756	Soil	29	0.01	209	0.001	2	0.16	0.002	0.09	<0.1	1.03	1.7	0.2	0.18	2	3.1	<0.2
1206757	Soil	11	0.02	118	0.007	<1	0.38	0.020	0.04	<0.1	0.08	0.3	<0.1	0.15	1	1.2	<0.2
1206758	Soil	14	0.03	110	0.006	2	0.42	0.005	0.07	0.1	0.03	0.6	0.1	0.18	4	1.6	<0.2
1206759	Soil	11	0.02	496	0.003	1	0.39	0.009	0.05	<0.1	0.06	0.3	0.1	0.07	2	1.4	<0.2
1206760	Soil	26	0.24	499	0.004	2	0.91	0.006	0.11	<0.1	0.47	2.3	0.3	0.12	3	3.3	<0.2
1206761	Soil	18	0.22	132	0.005	2	1.01	0.004	0.08	<0.1	0.03	1.2	0.2	0.06	4	1.3	<0.2
1206762	Soil	12	0.09	128	0.006	1	0.59	0.005	0.06	<0.1	0.02	0.4	0.2	0.07	4	<0.5	<0.2
1206763	Soil	25	0.25	610	0.019	3	1.18	0.006	0.05	0.2	0.09	1.8	0.1	<0.05	3	2.3	<0.2
1206901	Soil	20	0.17	591	0.005	2	0.96	0.004	0.09	<0.1	0.16	4.7	0.2	<0.05	2	2.6	<0.2
1206902	Soil	21	0.27	179	0.010	<1	1.16	0.005	0.05	0.2	0.06	1.4	0.1	<0.05	4	1.2	<0.2
1206903	Soil	16	0.13	169	0.022	<1	0.74	0.008	0.06	0.2	0.04	1.1	0.2	0.07	4	1.9	<0.2
1206904	Soil	25	0.21	211	0.013	2	1.30	0.005	0.11	0.2	0.16	2.1	0.2	0.06	4	2.0	<0.2
1206905	Soil	18	0.06	170	0.011	2	0.61	0.005	0.10	0.2	0.09	1.5	0.2	<0.05	3	2.0	<0.2
1206906	Soil	23	0.22	176	0.007	<1	1.25	0.004	0.11	0.1	0.13	2.9	0.4	0.09	4	3.2	<0.2
1206907	Soil	17	0.07	211	0.004	<1	0.81	0.005	0.09	<0.1	0.05	0.3	0.2	<0.05	4	1.1	<0.2
1206908	Soil	26	0.19	221	0.013	<1	1.31	0.006	0.08	0.2	0.18	2.8	0.3	<0.05	4	2.3	<0.2
1206909	Soil	18	0.24	243	0.010	1	1.00	0.006	0.10	0.2	0.09	2.2	0.2	<0.05	3	1.9	<0.2
1206910	Soil	18	0.18	156	0.009	1	1.03	0.006	0.08	0.3	0.06	2.1	0.2	0.13	4	1.5	<0.2
1206911	Soil	21	0.25	137	0.012	<1	1.12	0.005	0.08	0.2	0.13	2.1	0.1	0.07	3	1.6	<0.2
1206912	Soil	18	0.17	194	0.007	1	0.91	0.005	0.11	0.1	0.03	1.6	0.2	0.06	4	1.2	<0.2
1206913	Soil	22	0.14	153	0.008	1	1.07	0.003	0.12	0.1	0.08	1.9	0.2	0.07	5	1.1	<0.2
1206914	Soil	17	0.18	146	0.009	3	0.97	0.005	0.08	0.1	0.09	2.0	0.2	<0.05	3	1.4	<0.2
1206915	Soil	16	0.13	136	0.007	1	0.84	0.005	0.08	0.1	0.06	1.5	0.2	<0.05	3	1.4	<0.2
1206916	Soil	23	0.20	224	0.018	1	1.17	0.004	0.06	0.2	0.11	3.2	0.2	0.06	6	1.7	<0.2
1206917	Soil	74	<0.01	1126	0.002	2	0.20	0.002	0.13	<0.1	0.80	12.8	0.5	0.22	6	4.9	<0.2



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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																Se ppm	Te ppm
		Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm		
1206948	Soil	18	0.26	582	0.009	3	0.85	0.009	0.13	<0.1	0.17	2.3	0.2	<0.05	3	0.8	<0.2		
1206949	Soil	15	0.05	140	0.004	2	0.58	0.010	0.08	0.1	0.02	0.8	0.1	<0.05	5	0.6	<0.2		
1206950	Soil	42	0.71	1184	0.045	2	3.98	0.020	0.13	0.4	0.14	3.5	0.3	0.09	8	1.7	<0.2		
1206951	Soil	10	0.15	1240	0.010	2	0.89	0.026	0.06	0.1	0.11	0.5	0.3	0.08	3	1.0	<0.2		
1206952	Soil	22	0.43	904	0.021	3	1.47	0.011	0.11	0.6	0.06	2.1	0.3	0.06	5	1.5	<0.2		
1206953	Soil	25	0.53	1180	0.045	1	1.77	0.028	0.16	1.1	0.05	2.1	0.2	0.05	6	1.2	<0.2		
1206954	Soil	8	0.11	362	0.007	1	0.57	0.022	0.04	0.1	0.05	0.3	0.1	0.06	2	<0.5	<0.2		
1206955	Soil	25	0.77	970	0.115	2	2.72	0.055	0.28	2.2	0.06	3.3	0.5	<0.05	8	1.3	<0.2		
1206956	Soil	17	0.42	687	0.022	3	1.28	0.023	0.10	1.3	0.18	1.5	0.3	0.09	5	1.4	<0.2		
1206957	Soil	6	0.07	125	0.024	<1	0.83	0.028	0.03	0.2	0.02	0.7	<0.1	<0.05	2	0.5	<0.2		
1206958	Soil	23	0.20	351	0.011	4	1.01	0.006	0.10	0.3	0.04	1.7	0.2	<0.05	5	1.3	<0.2		
1206959	Soil	13	0.17	573	0.024	2	0.98	0.024	0.08	0.7	0.08	0.8	0.3	<0.05	4	1.8	<0.2		
1206960	Soil	14	0.19	653	0.019	2	1.08	0.045	0.08	0.2	0.07	1.6	0.1	<0.05	4	1.1	<0.2		
1206961	Soil	20	0.30	522	0.019	3	1.11	0.007	0.12	0.2	0.10	2.4	0.3	<0.05	4	1.3	<0.2		
1206962	Soil	25	0.36	399	0.053	2	2.17	0.015	0.12	1.3	0.05	1.9	0.2	0.07	8	1.1	<0.2		
1206963	Soil	13	0.24	447	0.024	<1	1.34	0.016	0.07	0.7	0.06	1.3	0.2	0.12	5	1.2	<0.2		
1206964	Soil	20	0.21	352	0.004	<1	1.95	0.009	0.05	0.2	0.76	0.4	0.4	0.05	4	3.4	<0.2		
1207101	Soil	29	0.01	953	0.001	2	0.23	0.001	0.13	<0.1	0.31	3.0	0.5	0.16	5	0.9	<0.2		
1207102	Soil	18	0.01	569	<0.001	2	0.36	0.002	0.19	<0.1	0.58	2.7	1.2	0.32	6	4.7	<0.2		
1207103	Soil	21	0.01	218	0.001	1	0.18	0.001	0.08	<0.1	1.47	0.8	0.2	0.06	2	1.9	<0.2		
1207104	Soil	29	0.05	450	0.007	1	0.51	0.002	0.11	0.1	1.26	2.5	0.4	0.17	5	3.9	0.2		
1207105	Soil	15	0.02	473	<0.001	6	0.34	0.002	0.19	<0.1	0.45	1.8	0.7	0.25	3	5.0	<0.2		
1207106	Soil	31	<0.01	473	0.001	3	0.29	0.002	0.13	<0.1	2.75	3.8	0.2	0.23	2	10.3	<0.2		
1207107	Soil	24	<0.01	534	<0.001	2	0.27	0.001	0.11	<0.1	1.05	4.7	0.5	0.15	2	4.6	0.2		
1207108	Soil	48	0.03	71	0.004	3	0.34	0.008	0.73	<0.1	1.05	2.9	0.8	1.27	6	20.9	0.5		
1207109	Soil	12	<0.01	361	<0.001	2	0.32	0.004	0.23	0.1	0.14	0.7	0.5	0.32	4	5.1	<0.2		
1207110	Soil	11	0.02	1004	0.001	6	0.37	0.002	0.16	0.1	1.59	2.1	1.7	0.15	3	6.0	<0.2		
1207111	Soil	9	0.02	424	0.001	1	0.25	0.002	0.06	<0.1	0.75	2.2	0.5	<0.05	1	1.0	<0.2		
1207112	Soil	20	0.08	617	0.012	1	0.55	0.002	0.07	0.1	0.21	2.2	0.2	<0.05	3	3.4	<0.2		
1207251	Soil	12	0.14	375	0.001	2	0.96	0.007	0.08	<0.1	0.06	3.0	0.2	<0.05	2	<0.5	<0.2		



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Vancouver BC V6E 4M3 Canada

Project:

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Report Date:

July 12, 2011

Page:

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Part 1

CERTIFICATE OF ANALYSIS

WHI11000345.1

Method Analyte Unit	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
1207252	9.9	33.6	12.0	93	0.5	0.1	0.1	0.1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1207253	1.0	15.0	3.8	104	0.6	0.6	3.7	495	0.78	2.0	3.7	0.4	15	1.1	0.4	0.2	31	0.15	0.055	6
1207151	2.3	37.5	18.1	149	0.6	31.2	7.4	387	1.98	11.5	7.5	2.0	43	1.8	1.7	0.3	38	0.28	0.062	8
1207152	2.9	80.9	8.3	75	12.7	21.6	3.9	124	1.62	9.0	18.1	0.9	19	0.1	2.0	0.2	43	0.10	0.106	10
1207153	3.4	54.3	8.3	96	1.2	18.9	3.2	93	1.53	8.3	8.2	0.5	18	0.3	1.9	0.2	50	0.08	0.081	10
1207301	2.2	47.1	12.7	183	0.7	56.0	8.1	244	1.82	25.2	4.5	0.5	35	2.9	1.5	0.6	41	0.24	0.087	9
1207302	3.4	57.4	13.7	129	0.7	37.8	9.0	561	2.16	23.2	2.7	0.5	37	2.2	1.6	0.5	35	0.21	0.091	8
1207303	2.3	44.9	13.8	210	0.6	55.2	7.4	184	1.91	18.6	4.8	1.1	39	1.8	1.5	0.4	34	0.29	0.076	8
1207304	4.7	100.9	17.1	482	0.4	98.3	29.7	1015	4.02	59.0	4.5	4.2	36	4.0	3.6	0.6	46	0.26	0.099	17
1207305	3.7	59.1	12.4	197	1.6	52.2	13.7	1125	2.06	10.1	15.7	1.3	73	2.1	2.8	0.2	58	0.67	0.114	10
1207306	14.9	127.3	17.0	58	2.2	14.8	1.8	55	3.15	25.2	8.5	1.2	127	0.4	6.4	0.3	84	0.09	0.273	6
1207307	3.8	68.6	3.0	33	0.7	7.3	1.9	87	34.31	4.8	<0.5	1.4	9	0.1	1.1	<0.1	29	0.03	0.037	<1
1207308	5.3	29.5	10.3	344	0.4	78.6	7.9	467	2.58	19.1	4.6	0.7	43	2.7	2.9	0.2	56	0.41	0.113	9
1207309	7.0	142.8	15.6	309	0.9	72.7	15.5	422	2.90	410.1	9.9	2.0	39	2.1	3.7	1.7	77	0.24	0.128	14
1207310	5.1	24.0	8.8	109	0.4	23.3	11.8	661	2.12	21.2	4.2	1.1	27	0.9	1.7	0.3	41	0.28	0.091	10



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Part 2

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Acme Analytical Laboratories (Vancouver) Ltd.

Project:

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Report Date: July 12, 2011

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QUALITY CONTROL REPORT

WHI11000345.1

Method Analyte Unit	1DX15 1DX15																							
	MDL	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La			
Pulp Duplicates		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm			
1206505	Soil	3.8	54.6	22.4	144	0.2	34.9	13.1	442	3.53	19.2	3.2	2.1	24	0.4	2.2	0.5	44	0.05	0.084	8			
REP 1206505	QC	3.8	54.3	21.5	143	0.2	34.3	13.0	453	3.51	19.0	2.1	2.2	24	0.4	2.2	0.4	45	0.05	0.081	8			
1206536	Soil	4.4	46.5	11.7	134	0.4	31.2	10.2	447	2.77	13.1	7.1	2.0	17	0.5	2.5	0.2	48	0.06	0.095	8			
REP 1206536	QC	4.4	44.9	11.5	138	0.4	30.4	9.5	408	2.60	12.5	4.8	2.0	18	0.5	2.4	0.2	55	0.06	0.096	8			
1206547	Soil	7.5	75.4	22.3	72	1.0	28.3	9.1	382	3.08	16.8	9.3	3.2	52	0.2	1.7	0.3	27	0.09	0.147	12			
REP 1206547	QC	7.9	77.0	23.2	71	1.0	29.1	9.7	415	3.16	17.1	9.6	3.3	51	0.3	1.7	0.3	28	0.09	0.152	12			
1206565	Soil	3.5	158.7	17.7	130	<0.1	41.0	13.9	315	2.95	18.8	0.9	0.2	39	0.3	1.5	0.3	58	0.02	0.061	9			
REP 1206565	QC	3.2	162.4	18.9	130	<0.1	42.8	13.8	322	3.05	19.2	<0.5	0.2	42	0.3	1.4	0.3	62	0.02	0.060	10			
1206709	Soil	8.0	39.0	19.5	64	<0.1	16.3	11.5	352	3.25	27.9	2.2	1.6	15	<0.1	2.1	0.3	67	0.05	0.029	8			
REP 1206709	QC	8.3	41.1	18.8	65	<0.1	17.2	11.9	363	3.41	29.5	1.3	1.8	15	<0.1	2.3	0.3	68	0.05	0.033	9			
1206723	Soil	2.9	18.5	10.5	35	1.2	8.2	2.7	88	1.55	9.9	3.9	0.3	24	0.1	1.8	0.2	47	0.05	0.057	8			
REP 1206723	QC	3.1	20.5	11.2	38	1.3	9.5	2.8	96	1.62	10.4	6.9	0.3	25	0.1	1.8	0.2	50	0.05	0.061	9			
1206748	Soil	2.7	28.6	13.9	8	3.3	6.6	0.7	36	1.43	29.7	24.8	0.3	81	0.1	8.6	0.2	43	0.08	0.099	3			
REP 1206748	QC	2.7	28.0	13.7	7	3.2	6.4	0.7	35	1.37	29.6	24.7	0.3	79	0.1	8.4	0.2	41	0.08	0.103	3			
1206903	Soil	3.1	26.7	16.6	91	0.2	17.9	4.4	159	2.34	15.9	1.1	0.9	23	0.2	2.5	0.4	51	0.04	0.041	9			
REP 1206903	QC	3.0	26.3	16.6	89	0.2	18.4	4.5	165	2.32	16.2	1.5	0.9	23	0.3	2.4	0.4	55	0.04	0.047	9			
1206925	Soil	4.4	166.8	21.0	122	2.1	20.2	3.3	81	5.46	16.4	6.0	3.4	77	0.2	3.1	0.4	41	0.01	0.085	10			
REP 1206925	QC	4.2	172.6	20.4	123	1.9	19.7	3.2	81	5.34	15.6	8.4	3.5	80	0.2	3.2	0.4	41	0.01	0.086	10			
1206936	Soil	5.7	78.1	18.5	102	0.1	25.2	8.7	365	3.66	18.0	1.7	0.3	13	<0.1	2.5	0.3	36	0.01	0.065	11			
REP 1206936	QC	5.7	78.3	18.6	106	0.1	24.0	8.3	365	3.47	18.5	0.7	0.3	14	0.1	2.5	0.3	39	0.01	0.069	12			
1206956	Soil	3.8	30.7	8.8	114	1.1	26.2	10.9	721	1.83	29.2	5.3	0.7	36	1.6	1.0	1.2	38	0.68	0.111	16			
REP 1206956	QC	4.0	28.7	8.8	104	1.0	25.5	11.3	730	1.90	27.6	7.8	0.8	36	1.3	1.0	1.0	37	0.67	0.107	15			
1207108	Soil	18.3	67.0	28.3	37	6.6	13.7	0.7	28	4.94	26.6	18.8	1.1	40	0.1	9.6	0.4	111	0.01	0.090	3			
REP 1207108	QC	18.8	64.5	27.9	34	6.5	12.9	0.7	25	4.91	25.5	18.4	1.1	43	0.1	9.4	0.5	112	0.01	0.086	3			
Reference Materials																								
STD DS8	Standard	13.0	96.2	118.6	301	1.8	37.0	7.6	623	2.51	28.3	107.9	6.6	63	2.3	5.5	6.5	41	0.69	0.079	15			
STD DS8	Standard	13.6	97.8	117.1	323	1.8	37.1	7.5	612	2.39	27.4	109.1	6.7	62	2.5	5.5	6.5	42	0.69	0.080	15			
STD DS8	Standard	13.1	107.2	128.0	324	1.8	39.9	8.1	603	2.46	26.7	121.5	6.6	63	2.2	5.4	6.6	40	0.70	0.081	14			



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Report Date: July 12, 2011

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Goldstrike Resources (Petro One Energy C

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Vancouver BC V6E 4M3 Canada

WHI11000345.1

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Goldstrike Resources (Petro One Energy Corp.)
1300 - 111 West Georgia Street
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Submitted By:

Lucy Zhang

Receiving Lab:

Canada-Whitehorse

Received:

June 29, 2011

Report Date:

July 13, 2011

Page:

1 of 3

CERTIFICATE OF ANALYSIS

WHI11000346.1

CLIENT JOB INFORMATION

Project: SPE
Shipment ID: SPE-1
P.O. Number:
Number of Samples: 31

SAMPLE DISPOSAL

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

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

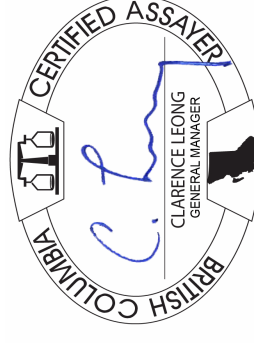
SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	31	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	31	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Goldstrike Resources (Petro One Energy Corp)
1300 - 111 West Georgia Street
Vancouver BC V6E 4M3
Canada

CC: Daithi Mac Geralt



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



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WHI11000346.1

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit	MDL	1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15 1DX15																			
		La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm			
1207201	Rock	<1	17	0.05	341	0.002	6	0.40	0.002	0.24	<0.1	0.14	1.2	0.1	0.13	2	2.5	<0.2			
1207202	Rock	1	12	0.07	392	0.002	9	0.71	0.002	0.35	<0.1	0.37	3.1	0.3	0.09	2	2.2	<0.2			
1207203	Rock	<1	37	<0.01	469	0.001	3	0.12	<0.001	0.11	<0.1	0.32	1.5	<0.1	0.11	2	4.1	<0.2			
1207204	Rock	<1	34	0.01	391	<0.001	5	0.15	<0.001	0.12	<0.1	0.20	0.7	0.1	0.09	3	3.1	<0.2			
1207205	Rock	<1	59	<0.01	469	0.002	6	0.19	<0.001	0.09	<0.1	1.01	2.7	0.2	0.10	9	9.3	<0.2			
1207206	Rock	<1	18	0.01	1156	<0.001	9	0.24	0.002	0.15	<0.1	0.23	1.3	<0.1	0.12	1	3.8	<0.2			
1207207	Rock	<1	8	<0.01	1550	<0.001	2	0.06	<0.001	0.04	<0.1	0.02	0.2	<0.1	0.08	<1	1.7	<0.2			
1207208	Rock	33	8	<0.01	281	<0.001	7	0.49	0.001	0.17	0.1	0.08	1.4	<0.1	<0.05	1	1.1	<0.2			
1207209	Rock	1	17	0.02	605	0.001	8	0.23	0.002	0.20	<0.1	0.29	2.1	0.6	0.29	2	4.0	<0.2			
1207210	Rock	34	3	0.01	286	<0.001	10	0.50	0.014	0.19	<0.1	0.10	1.2	0.1	<0.05	1	0.8	<0.2			
1207211	Rock	4	97	0.02	1636	0.002	7	0.40	<0.001	0.10	0.1	1.43	2.2	<0.1	0.06	5	16.5	<0.2			
1207212	Rock	<1	66	<0.01	871	0.002	3	0.20	<0.001	0.05	0.2	2.08	3.4	<0.1	0.10	4	24.5	0.3			
1207213	Rock	4	74	0.01	2298	0.003	6	0.43	<0.001	0.10	<0.1	3.29	4.4	<0.1	0.07	14	52.4	0.4			
1207214	Rock	1	10	<0.01	362	<0.001	4	0.27	0.001	0.06	<0.1	0.04	2.4	<0.1	<0.05	<1	<0.5	<0.2			
1207215	Rock	<1	18	0.01	393	<0.001	3	0.42	0.002	0.08	<0.1	0.03	4.1	<0.1	<0.05	2	0.5	<0.2			
1207216	Rock	2	36	<0.01	359	<0.001	2	0.29	<0.001	0.03	<0.1	0.94	1.8	<0.1	<0.05	2	6.1	<0.2			
1207217	Rock	3	23	<0.01	967	<0.001	2	0.31	<0.001	0.02	<0.1	0.32	1.8	<0.1	<0.05	1	3.5	<0.2			
1207218	Rock	2	17	<0.01	240	<0.001	1	0.14	<0.001	0.01	<0.1	0.05	0.7	<0.1	<0.05	<1	0.6	<0.2			
1207351	Rock	<1	14	0.02	272	<0.001	5	0.24	0.002	0.15	<0.1	0.07	0.6	<0.1	<0.05	<1	0.6	<0.2			
1207352	Rock	<1	16	0.02	189	0.001	3	0.22	0.001	0.16	<0.1	0.09	0.6	<0.1	0.06	<1	1.0	<0.2			
1207353	Rock	1	12	0.03	538	<0.001	5	0.39	0.002	0.20	<0.1	0.20	1.4	0.1	0.07	1	1.9	<0.2			
1207354	Rock	3	17	0.02	590	0.001	5	0.22	0.002	0.16	<0.1	0.12	0.8	<0.1	0.13	1	2.3	<0.2			
1207355	Rock	<1	32	<0.01	446	0.001	5	0.13	<0.001	0.06	<0.1	0.13	0.8	<0.1	<0.05	2	1.4	<0.2			
1207356	Rock	<1	19	0.01	293	<0.001	5	0.25	0.002	0.08	<0.1	0.09	1.9	<0.1	<0.05	1	0.9	<0.2			
1207357	Rock	<1	20	<0.01	562	<0.001	4	0.35	0.002	0.07	<0.1	0.08	1.8	<0.1	<0.05	1	0.8	<0.2			
1207358	Rock	<1	12	0.01	761	<0.001	7	0.32	0.003	0.11	<0.1	0.16	1.4	<0.1	<0.05	1	2.2	<0.2			
1207359	Rock	<1	35	<0.01	1689	<0.001	6	0.18	<0.001	0.04	<0.1	0.63	1.1	<0.1	0.06	2	2.7	<0.2			
1207360	Rock	<1	20	<0.01	479	<0.001	4	0.18	<0.001	0.04	0.1	2.33	1.2	<0.1	0.07	4	4.8	<0.2			
1207361	Rock	<1	14	0.01	1159	<0.001	5	0.13	<0.001	0.07	<0.1	0.24	0.5	<0.1	0.06	2	1.2	<0.2			
1207362	Rock	<1	18	<0.01	1513	<0.001	6	0.25	0.002	0.08	<0.1	0.57	1.5	<0.1	<0.05	1	9.0	<0.2			

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QUALITY CONTROL REPORT

WHI11000346.1

Method Analyte Unit	WGHT 1DX15																							
	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Pulp Duplicates																								
1207354	Rock	0.82	0.3	12.4	8.8	5	0.3	4.7	0.5	20	0.59	2.4	2.1	1.8	10	<0.1	1.2	0.1	12	<0.01	0.016			
REP 1207354	QC		0.2	11.9	8.2	5	0.3	4.6	0.4	18	0.59	2.2	1.9	1.7	10	<0.1	1.3	0.1	12	<0.01	0.015			
Core Reject Duplicates																								
1207206	Rock	2.57	0.8	19.5	5.2	2	0.5	4.8	0.3	22	0.87	11.2	3.7	0.6	6	<0.1	4.0	0.2	21	<0.01	0.016			
DUP 1207206	QC		1.0	19.7	5.4	2	0.5	4.9	0.3	17	0.81	11.4	4.0	0.6	6	<0.1	4.0	0.2	20	<0.01	0.017			
Reference Materials																								
STD DS8	Standard		13.4	104.2	132.8	313	1.7	36.5	7.2	593	2.44	24.3	102.5	7.7	69	2.0	6.2	6.8	40	0.68	0.080			
STD DS8	Standard		13.9	105.7	133.4	312	1.8	38.0	7.2	637	2.48	24.1	106.6	7.7	72	2.0	6.0	6.5	40	0.69	0.082			
STD DS8	Standard		12.6	111.5	124.4	311	1.6	39.0	7.5	608	2.42	26.5	114.0	6.8	68	2.6	5.7	7.0	42	0.72	0.077			
STD DS8	Standard		14.1	108.6	131.3	310	1.8	38.1	7.6	600	2.39	25.8	108.1	7.6	75	2.4	5.8	7.3	42	0.72	0.080			
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08			
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			
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			
Prep Wash																								
G1	Prep Blank		<0.1	1.4	3.3	47	<0.1	3.4	4.1	545	1.89	0.6	0.9	5.6	100	<0.1	<0.1	<0.1	37	0.53	0.077			
G1	Prep Blank		0.2	1.6	2.6	45	<0.1	3.5	4.1	529	1.79	<0.5	1.3	5.5	63	<0.1	<0.1	<0.1	35	0.44	0.078			



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QUALITY CONTROL REPORT

Method Analyte Unit	1DX15																	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1207354	Rock	3	17	0.02	590	0.001	5	0.22	0.002	0.16	<0.1	0.12	0.8	<0.1	1	2.3	<0.2	
REP 1207354	QC	3	17	0.02	632	0.001	5	0.23	0.002	0.15	<0.1	0.11	0.8	<0.1	1	2.0	<0.2	
Core Reject Duplicates																		
1207206	Rock	<1	18	0.01	1156	<0.001	9	0.24	0.002	0.15	<0.1	0.23	1.3	<0.1	1	3.8	<0.2	
DUP 1207206	QC	<1	19	0.01	1248	<0.001	9	0.23	0.001	0.15	<0.1	0.23	1.3	<0.1	1	3.7	<0.2	
Reference Materials																		
STD DS8	Standard	15	114	0.60	264	0.114	3	0.91	0.085	0.40	3.4	0.23	1.9	5.5	0.16	5	5.5	5.4
STD DS8	Standard	16	116	0.60	285	0.109	3	0.92	0.087	0.42	3.1	0.21	2.1	5.4	0.16	5	4.8	4.8
STD DS8	Standard	13	117	0.61	263	0.110	4	0.90	0.083	0.42	2.7	0.15	1.9	5.0	0.17	5	6.4	4.3
STD DS8	Standard	16	119	0.61	297	0.124	2	0.94	0.089	0.42	3.0	0.19	2.1	5.2	0.16	4	6.1	4.5
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																		
G1	Prep Blank	10	7	0.55	212	0.125	2	0.98	0.073	0.42	<0.1	<0.01	1.8	0.2	<0.05	5	1.1	<0.2
G1	Prep Blank	9	6	0.55	192	0.117	2	0.89	0.061	0.44	<0.1	<0.01	1.6	0.3	<0.05	5	0.5	<0.2