

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

Work Period: (26 August 2011 to 29 August 2012)

Property Coords: [NAD83; U9] 392009E / 7031786N
63° 23' 54"N / 131° 9' 30"W

NTS Sheets: 1050-06

Claims:

Claim Name	Grant Number
EM-1 to EM-100	YD135071 to YD35170
EM-101 to EM-154	YD71501 to YD71554
EM-163 to EM-180	YD71563 to YD71580
EM-189 to EM-206	YD71589 to YD71606
EM-217 to EM-232	YD119947 to YD119962
EM-243 to EM-256	YD119973 to YD119986

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SUMMARY

In August 2011, a four-man team completed four days of prospecting and sampling on the Emerald property to carry out a preliminary assessment for the presence of Carlin-style gold mineralization. The Emerald property is located in the Mayo Mining District, Yukon Territory, Canada, approximately 170 kilometres northeast of the community of Ross River and approximately 55km northwest of the North Canol Road at Macmillan Pass. The property is comprised of a total of 220 Quartz Mining claims in a single claim block. 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 EM claims cover the inferred source of six 98th, 95th, and 90th percentile gold silt anomalies that drain in all directions from the claim block. These gold anomalies are coincident with strong arsenic, antimony, and mercury anomalies. The claims cover clastic and carbonate rocks of the Road River Group that are stratigraphically equivalent to the host rocks at the Rau Tiger Zone discovery, 175 km northwest of the Emerald property. The map legend indicates there are limy and dolomitic horizons within the Road River clastic sequence at Emerald Lake that would be favourable host rocks for Carlin-style mineralization.

The Emerald 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 Emerald property is situated has seen very limited exploration over the past few decades. In the vicinity of the current claim groups, previous exploration efforts have focused 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, in the early 1970's, exploration was carried out for both W-Cu and sedex Pb-Zn type mineralization, the latter on-going into the early 1990's with the Earn Group

sedimentary package as the preferred target. Most recently within the Selwyn Basin to the north of the Emerald property, exploration has discovered Carlin-style gold mineralization. Based on previous exploration in the area, the Emerald property offers good potential for gold mineralization.

The helicopter supported 2011 sampling program resulted in a total of 227 samples being taken. Sampling medium included soil 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.

Based on the statistical analysis of the 147 soil samples, a gold value greater than 9.25 parts per billion (ppb) is considered anomalous. Out of this sample set, there were 50 anomalous soil samples with seventeen of these samples returning values greater than 20 ppb Au and the highest value for gold in soil being 56.2 ppb. A soil assay correlation report generated for Emerald claim group shows that there is not a strong relationship between the Au values and the Hg, Sb and Tl values.

A statistical analysis of the gold values of the 80 rock samples determined that any sample containing >2.5 ppb gold can be considered anomalous. Using this threshold value, 17.5% of the rock samples are classified as anomalous. The highest gold in rock value is 114.5 ppb.

Based on the above statistical analysis of both the soil and rock samples, four geochemical Au anomalies were identified with three of the anomalies being a combination of soil and rock samples. Local quartz veining in chert and disseminated sulphide mineralization are common features of three of the anomalies.

A follow-up field program is recommended and should focus on each of the four geochemically anomalous areas outlined in this report. The known stream silt geochemistry that is yet to be explained needs further investigation. Further sampling and prospecting is needed to evaluate the property in more detail.

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1.0 INTRODUCTION

1.1 General

In late August 2011, a four day, reconnaissance prospecting and sampling program was carried out on the Emerald property located north of the North Canol Road and between the Hess River and Emerald Creek, approximately 170 kilometres northeast of the community of Ross River. The property consists of a total of 220 Quartz Claims in a single block within the Mayo Mining District, Yukon Territory, Canada. In total, 227 samples of soil and rock were collected from the claim block for gold analysis. The field team consisted of a prospector and two samplers all under the supervision of geologist, Edward Dashwood.

The Emerald property, situated approximately 50 km northwest of the North Canol Road in the Mac Pass region, was staked by the YC Syndicate within an underexplored part of the Selwyn Basin. The claims cover the inferred sources of a number of 90 percentile or greater soil in silt samples with coincident with strong arsenic, antimony, and mercury anomalies, a suite of elements indicative of Carlin-style gold mineralization.

The property covers the inferred source of a number of strong gold, arsenic, antimony and mercury anomalies identified from regional silt geochemical surveys (Héon, 2003). The Au+As+Sb+Hg 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. These rocks are stratigraphically equivalent to the host rocks at the Rau Tiger Zone discovery of ATAC Resources Ltd.

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 Emerald property is situated between the Hess River and Emerald Creek within the Mayo Mining District in east-central Yukon. The claims are situated approximately 170 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 50 kilometres to the southeast of the property (Figure 1). A winter road to the Plata airstrip located approximately 45 kilometres in a westerly direction from the Emerald property passes approximately 13 km southwest of the EM claim group in the vicinity of Nidderly Lake. Access to the property is best gained by helicopter from either Ross River, the nearest community, or from a base camp established next to the North Canol Road.

2.2 Description of Mining Claims

The Emerald property is located in the Mayo Mining District, Yukon Territory, Canada and consists of a single block of 220 Quartz Mining claims that cover an area of approximately 4,540 hectares. The claims were staked by the YC Syndicate and are registered in the name of Goldspike Exploration Inc. The property is currently under option to Goldstrike Resources Ltd.

The claim data is presented below in Table 1 and the claim group is shown in Figure 2.

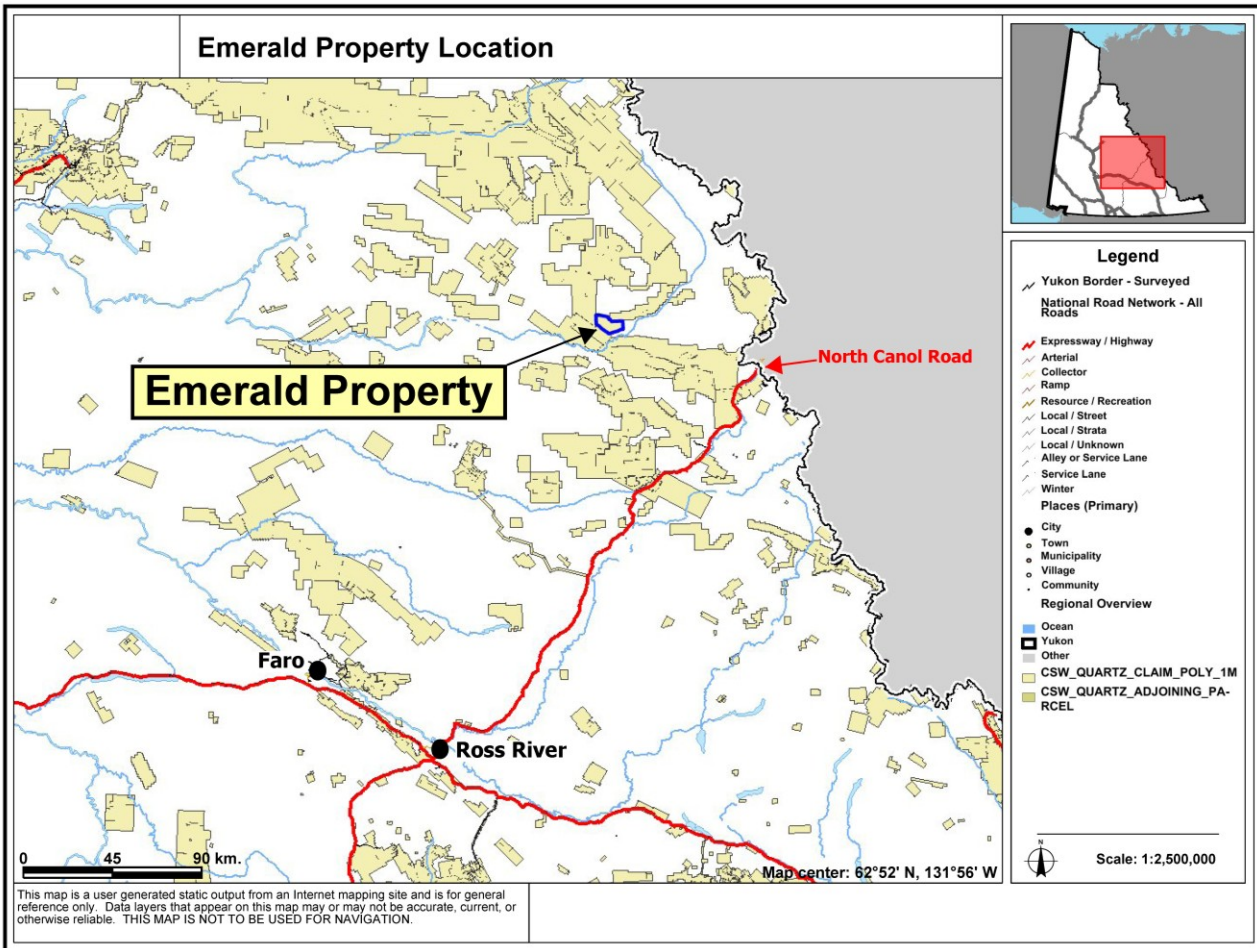


Figure 1: Emerald property location map.

The Emerald claims are contiguous to the ET claims to the northeast which are held by Constantine Metal Resources Ltd., the REA claims of Carlin Gold Corp. to the southwest and the Y claims to the west which are held by 18526 Yukon Inc.

Table 1. Emerald property claim data.

Claim ID	Grant Number	Reg Type	Staking Date	Recording Date	Claim Expiry Date	Claim Status	NTS Map	Claim Owner	% Held
EM-1	YD35071	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-2	YD35072	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-3	YD35073	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-4	YD35074	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-5	YD35075	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-6	YD35076	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-7	YD35077	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-8	YD35078	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-9	YD35079	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-10	YD35080	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100
EM-11	YD35081	Quartz	16-Nov-2010	14-Dec-2010	14-Dec-2013	Active	105O06	Goldspike Exploration Inc.	100

Table 1. Emerald property claim data.[illegible]

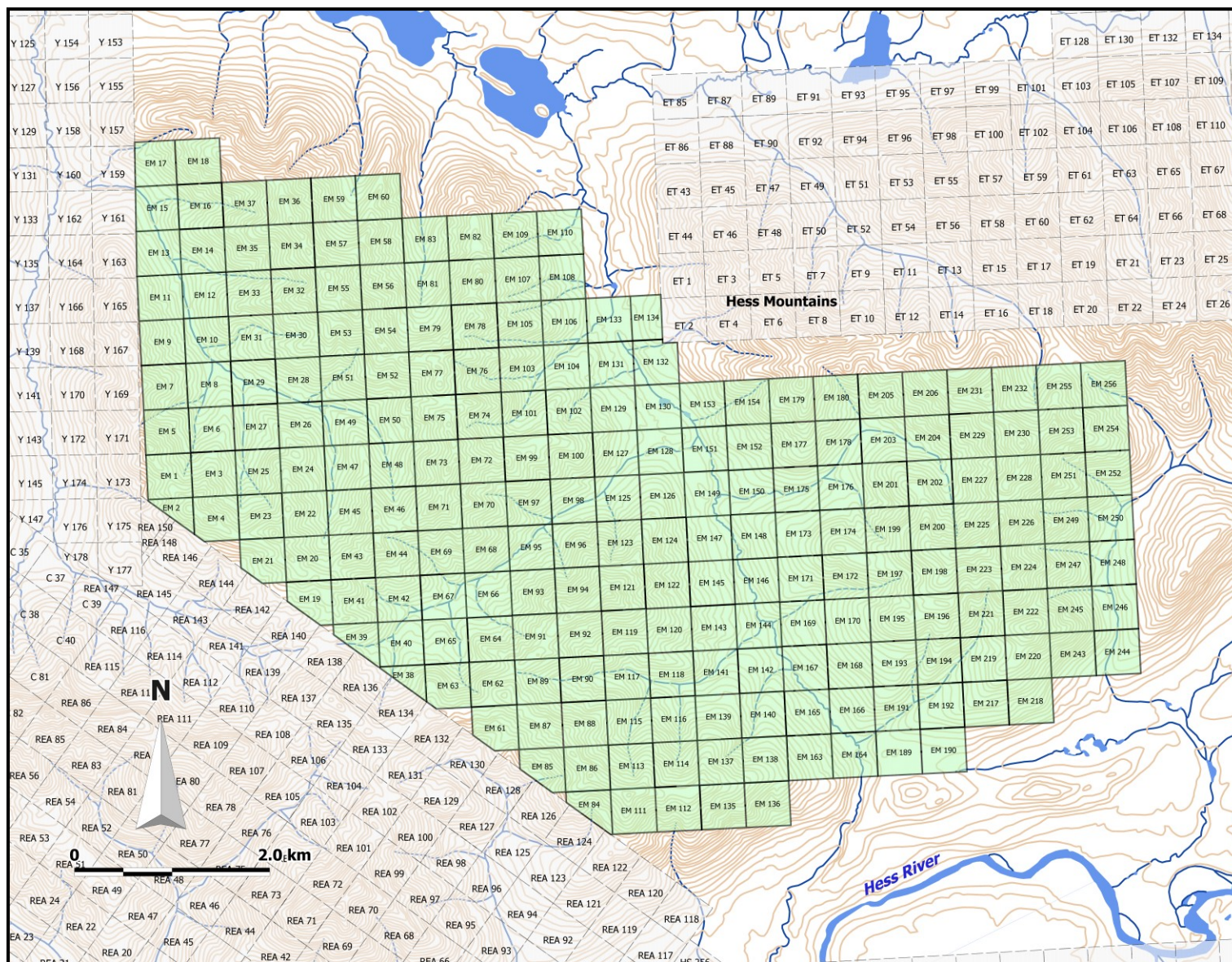


Figure 2: Emerald property claim block.

3.0 PHYSIOGRAPHY AND VEGETATION

The Emerald Property is within an area of subarctic or boreal climate characterized by discontinuous permafrost, hot and humid, short summers, and extremely cold, long winters. In Ross River, the closest community, the daily average temperatures range from +20°C in June to -33°C in January. The average total annual precipitation is 253 mm.

The claims are in the Hess Mountains, a fairly rugged, mountainous terrain with elevations ranging from approximately 1000 metres above sea level (m.a.s.l.) in the southeast part of the claim group to slightly greater than 1780 m.a.s.l. in the central part of the property. Below approximately 1300 metre elevation the vegetation is dense and consists primarily of mixed alpine forest with rivers, streams, lakes, ponds and bogs common throughout. Alpine tundra is found above the 1300m elevation (Figure 3).

The area was last glaciated by the McConnell ice sheet. Outcrops and are common along the ridges and talus is a common feature on the slopes (Figure 3).



Figure 3: Emerald property physiography.

The property covers multiple stream basins with a well developed drainage system that flows via the Hess River and Emerald Creek westward towards the Yukon River. As seen in Figure 3 (top photo), the stream valleys are narrow with steep sides.

4.0 PROPERTY HISTORY

The area in which the Emerald property is located has seen very limited exploration over the past few decades with most activity focused on gold and sedex Pb-Zn mineralization. This limited exploration activity is reflected in the paucity of documented mineral occurrences in the region. Most of the documented exploration programs were of short duration with little follow-up utilizing diamond drilling.

From the early 1970's, regional programs focused mainly on W-Cu and sedex Pb-Zn style mineralization. Gold exploration focused on the mineralization associated with the Cretaceous stocks. With the recent discovery of Carlin style Au mineralization in the Rau trend west of Mayo, current exploration activities in the region are focused on following up government regional geochemical survey anomalies that have a coincidental element suite associated with Carlin-style mineralization and an inferred source within an area underlain by carbonate rocks. A summary of these activities follows.

In the mid-1960's, **Atlas Explorations Ltd.** completed a reconnaissance geology-geochemical program in the Hess Mountain region that resulted in the staking of a number of claim groups including the ART and SCOT claim blocks, both in close proximity to the current EM claim group. The ART prospect (Minfile 1050 007) is in close proximity to a late-Cretaceous pluton and consists of high zinc and copper values associated with hornfels and an area of intense quartz veining within Devonian Earn Group black chert. This area is located approximately five kilometres to the west of the Emerald claim block. The SCOT prospect (Minfile 1050 006) was identified as a strong zinc in soil anomaly occurring within Devonian Earn Group black chert and grey shale in an area approximately 8 kilometres southwest of the current EM claim block.

In the Niddery Lake area located 12 kilometres southwest of the Emerald property, **Union Carbide Exploration Corp.** carried out stream sediment surveys in a W-Cu regional exploration program during the 1971-76 period. In 1981, samples were re-analyzed for Au and Ag followed by ground-truthing of the anomalies by prospecting and chip sampling. The EMMY claim block which included the ART prospect was staked, followed by a program of mapping and sampling. The anomalies identified from the program were found to be associated with the late-Cretaceous plutons.

In 1995, **APC Ventures Inc.** explored a large 95 percentile Au in silt anomaly with As association within their Twin Batholiths Zones that covered the two late-Cretaceous plutons located 5 and 10 kilometres west and southwest of the current EM claim group. The anomaly was identified from 1980 regional work by the Geological Survey of Canada (GSC).

In 2002, **Klad Enterprises Ltd.** staked the Cynthia claims which included the ART prospect and subsequently discovered several gold-bearing zones east of the two granitic intrusions. The Ted zone consists of chalcedonic and vuggy quartz veins as well as intensive quartz stockworks in NNE-trending faults that run along the eastern side of both intrusions. Chalcedony veins associated with pervasive silicification, and widespread arsenopyrite and pyrite mineralization returned up to 2.56 gpt gold. The Intersection zone is a 1.5 x 1.5 km area of intense fracturing, silicification, alteration, brecciation and quartz stockwork northeast of the southern intrusion. Gold grades from this zone are reported to range from 1 to 4 gpt, with the best sample assaying 16 gpt.

Current companies in the immediate area of the EM claim block include; **Constantine Metal Resources Ltd.** (ET claims) and **Carlin Gold Corp.** (REA claims), both from Vancouver, **Colorado Resources Ltd.** out of Kelowna BC (HS claims) and **18526 Yukon Inc.** (Y, C and D claims).

Constantine Metal Resources Ltd. and **Carlin Gold Corp.** are joint venturing on a number of claim groups including the X(REA) claims and the HESS claim block (HS, GT, ET and Y claim groups) in the search for Carlin-style gold mineralization. On their X (REA) claim block, soil samples have returned anomalous Au-As samples with associated Tl and Hg within areas underlain by Lower Paleozoic units. The best soil sample returned >6gpt Au. This anomaly occurs within the Devonian Earn Group sediments to the immediate south of a late-Cretaceous pluton.

5.0 GEOLOGICAL SETTING

5.1 Regional Geology

The Emerald property is situated towards the eastern margin of 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.

As shown in Figure 4, the oldest rocks in the area are Lower Cambrian Gull Lake sedimentary rocks (ICG), a sequence of predominantly fine clastic sediments with mafic volcanic interbeds. These sediments are overlain by the Ordovician to Devonian Road River Group (ODR), an off-shelf sequence of shale, chert and carbonate. The Road River Group is overlain by the Devonian to Mississippian Earn Group (DME) shales and metavolcanics.

To the southeast, the clastic shelf formations consisting of the Carboniferous to Permian Mount Christie formation (CPMC) comprised of a sequence of shale, chert, slate and siltstone with minor quartzite and carbonate units, and the Mississippian Keno Hill formation (MK) siliceous and carbonaceous sediments are in fault contact with the Earn Group.

Late-Cretaceous granitic plutons (mKqS) belonging to the Tombstone suite of granitic intrusions have intruded the entire sequence.

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. Because the rocks of Selwyn Basin are relatively incompetent when compared to the carbonate rocks of the adjacent platforms, they have deformed internally as a homogeneous mass forming the thrust and fold belt called the Selwyn Fold Belt which is characterized by large-scale thrust faulting, open to tight similar folds, imbricate fault zones and the development of axial planar slaty cleavage. The more competent chert units deformed as chevron folds or isoclinal folds. Thrust faults associated with the compression are generally oriented north-northeast and northwest.

In the region of the Emerald property, the contact between the Road River Group and the Earn Group is defined by a southeast trending thrust fault, whereas the movement along the fault

marking the contact between the Earn Group and the younger Mount Christie and Keno Hill formations in undefined.

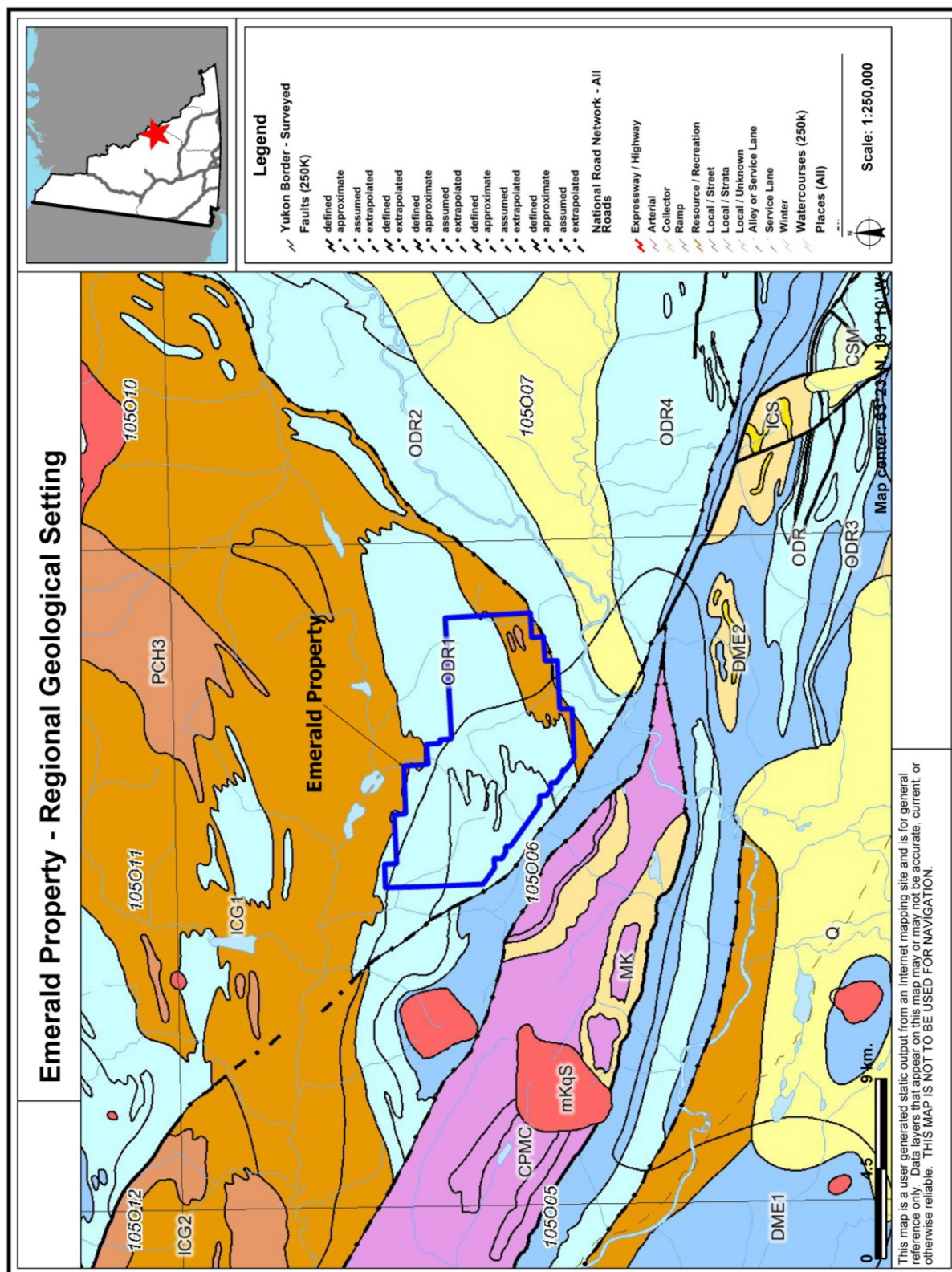


Figure 4: Regional geological setting of the Emerald Property.

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 Emerald property is situated in the MacMillan Pass region 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 Lower Cambrian Gull Lake formation.

The Road River Group includes thin to medium bedded light grey to black chert and often graphitic black shale of the Early Ordovician to Silurian Duo formation (ORD1), and orange weathered, bioturbatic, dolomitic to grey-green mudstone to siltstone containing lesser chert of the overlying Upper Silurian Steel formation (ORD2) (Figure 4). Government mapping has indicated that on a large scale, the Road River Group rocks in the vicinity of the Emerald property are a facies equivalent to the Cambrian to Lower Devonian Bouvette formation dolostone that hosts ATAC Resources' Tiger Zone, a Carlin-type gold deposit located within the Selwyn Basin approximately 200 kilometres northwesterly from the Emerald property.

The small section of Lower Cambrian Gull Lake formation (ICG1) sediments that underlay the southern extremity of the claim block is comprised of shale, siltstone and mudstone with minor sandstone, chert and limey basal.

To the immediate west of the property a mid-Cretaceous, quartz-monzonite intrusion (mKqS) that forms part of the Tombstone Plutonic Suite intrudes into the Devonian Earn Group (DME) of submarine shale and argillitic sediments. Between the west claim group boundary and the pluton and the Road River Group sediments are in fault contact with the Earn Group sediments.

6.0 MINERALIZATION

The economic geology setting of the Emerald property finds it situated in the central portion of the sinuous Tombstone Gold Belt, an 800 kilometre long belt that marks the eastern margin of

the Tintina Gold Province which arcs from central Alaska in the west, eastward and then southward terminating in southeastern Yukon near the border with British Columbia. The Tombstone Gold Belt encompasses a number of Cretaceous stocks/plutons that represent the youngest and most inboard belt of the mid-Cretaceous Selwyn magmatic episode. These plutons are generally alkalic (syenitic) in composition and are associated with numerous gold porphyry and related occurrences (Hart and Selby, 2001), including the Fort Knox (9.2 million ounce) and Pogo (5.6 million ounce) gold mines in Alaska, and the Dublin Gulch and Red Mountain deposits (4 million ounces combined) in the Yukon.

Significant mineral deposits in the Emerald property region include both sedex Pb-Zn and tungsten skarn. The Tom and Jason deposits which are located in the Mac Pass area approximately 55 km to the east southeast 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. Both deposits are associated with the Upper Devonian Lower Earn Group. The Mactung tungsten deposit is also situated in the Mac Pass region approximately 50 km to the east southeast of the Emerald property. The deposit is a skarn associated with a mid-Cretaceous pluton and has a resource (indicated and inferred) of 44.9 million tonnes grading 0.85% WO₃. The property is currently under development by North American Tungsten Ltd with a target underground production of 2,000 tonnes/day.

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 175 kilometres northwest of the Emerald 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 Osiris 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).

The mineral occurrences closest to the EM claim block are the ART and SCOT prospects.). The ART is a Au-Ag-base metal showing in a pyrite+arsenopyrite vein and in brecciated sediments within the metamorphic aureole generated by mid-Cretaceous plutons known as the Twin Batholiths located west and southwest of claim block. The SCOT prospect is a zinc occurrence associated with the Road River Group sediments

7.0 2011 FIELD PROGRAM

A four day, helicopter supported, reconnaissance program comprised of prospecting and geological mapping along with soil, silt and rock sampling was carried out on the Emerald property from 26-29 August, 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 the community of Ross River with a helicopter being used to ferry crews to and from the property on a daily basis.

The field crew consisted of four personnel under the supervision of geologist Edward Dashwood. In addition to the geologist, the crew members consisted of prospector Inyo Younggreen and samplers Sam Lewis and Greg Galloway.

The prospecting and geochemical sampling of the claim group resulted in the collection of a total of 227 samples (147 soil samples and 80 rock samples).

7.1 Sampling Procedure

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.

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.

The sample locations are shown on Figure 7a in Appendix I. The sample descriptions and sample results are presented for the soil samples in Tables 3 and 4, respectively, and for the rock samples in Tables 5 and 6, respectively, in Appendix II.

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.

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

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 STATISTICAL ANALYSIS OF SAMPLES

9.1 Determination of Background Values

The histograms in Figure 5 represent the gold values for the soil and rock samples taken from the Emerald property. The top histogram of gold in soil samples was constructed using a 2 ppb bin size and an upper cut-off of 20 ppb Au, and includes 88% of the sample set (Table 2). A polynomial trendline superimposed on the histogram indicates two distinct populations with an upper limit of approximately 13 ppb defining what is deemed to be the base population. The second population is deemed to be an anomalous sample subset.

The gold in soil histogram for the base population is presented in Figure 5 (middle)

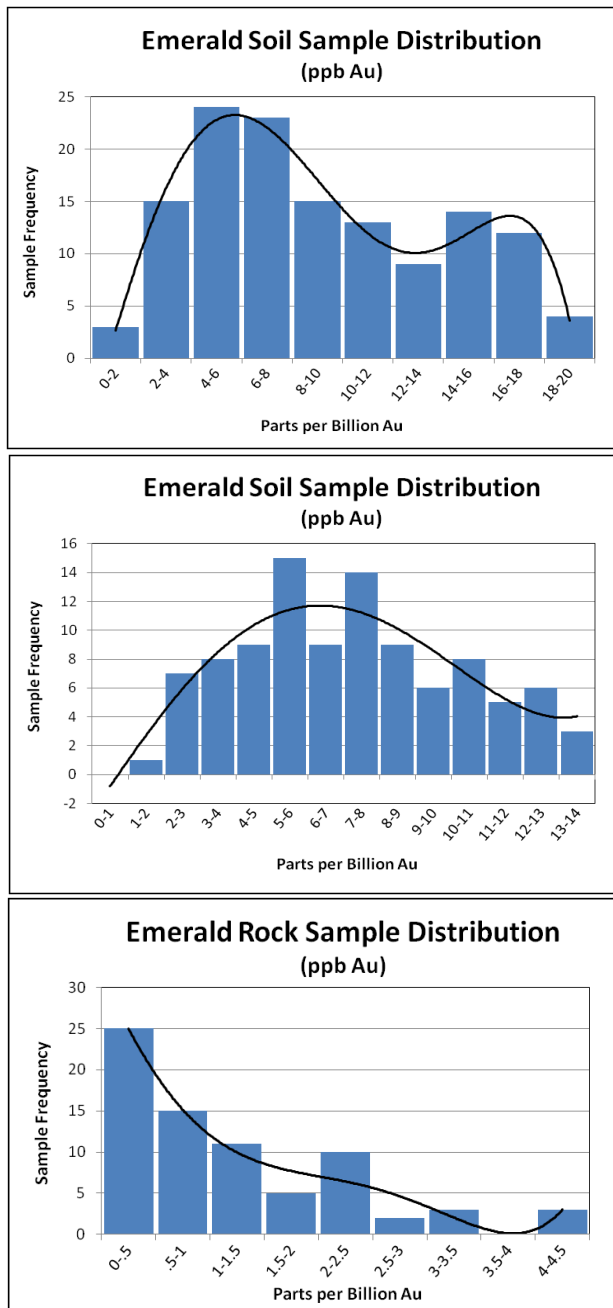


Figure 5: Histograms with trendlines for Au in soil and rock samples from the Emerald property. **Top:** gold in soil histogram soil showing two populations; **Middle:** gold in soil histogram for the base population; **Bottom:** gold in rock histogram.

and the results of the statistical analysis of the base population are shown in Table 2. This analysis indicates any sample containing greater than 9.26 ppb Au can be considered anomalous. Out of the original set of 147 samples, a high number of anomalous samples (50 samples out of 147 or 34%) with the 33 samples within the range of 13.25-20 ppb Au being classified as weakly anomalous. The remaining 17 samples returned gold values >20 ppb and are classified as anomalous. The maximum value for a soil sample was 56.2 ppb Au (sample 1233814). The anomalous samples are indicated on Figure 7b (Appendix I).

Sampled Medium Element	Soil Au	Soil Au	Rock Au
Value Range	0-20	0-14	0-3
n:	130	100	68
% of Total Population:	88%	68%	85%
Mean (M):	9.2	7.17	0.98
Population Variance:	22.0	9.26	0.58
Standard Deviation (SD):	4.7	3.04	0.76
Anomalous (> M + 2 SD):	18.6	13.25	2.50

Table 2: Results of the statistical analyses of the Emerald property soil and rock geochemical samples.

The bottom histogram in Figure 5 represents the gold in rock for all rock types. The results of the statistical analysis are shown in Table 2. Since sample set includes all rock types, the upper limit for background is estimated at 2.50 ppb Au resulting in 14 of the 80 samples being classified as anomalous. Eight of fourteen samples are weakly anomalous (2.5-5.0 ppb Au) and the remaining six samples are anomalous (>5.0 ppb Au). The highest gold in rock sample (sample 1234038) returned 114.5 Au from a rock described as a gossanous, decomposing conglomerate composed of quartz and chert, and striking at 350° and dipping 60° W. These samples are indicated on Figure 7b (Appendix I).

9.2 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 6. The closer the correlation coefficient is to 1.0, the stronger the relationship between the two variables.

The analysis shows that the strongest correlations occur between arsenic and antimony, and between

	As	Au	Hg	Sb	Tl
As		0.35	0.16	0.62	0.25
Au			0.10	0.32	0.15
Hg				0.37	0.60
Sb					0.58
Tl					

Figure 6: Emerald property soil geochemistry correlations report.

thallium and mercury as well as between thallium and antimony. The weakest correlations appear to be between gold and mercury, antimony and thallium.

10.0 DISCUSSION AND CONCLUSIONS

10.1 DISCUSSION

Although no detailed geological mapping was conducted on the claim group, the sample descriptions indicate multiple gossans, oxidized outcrops, and quartz veining and breccia zones. Rock sample 1234042, consisting of bull quartz, was taken from a 5 metre wide outcrop of bull quartz striking at approximately 290°.

Bedrock throughout the property commonly strikes at approximately 290° with local variations. Dips are southerly ranging from near-horizontal to moderate.

The statistical analysis for gold in both the soil and rock samples identified and number of anomalous samples, the locations of which are shown in Figure 7b (Appendix I). Based on the locations and grouping of these anomalous samples, the four anomalies indicated on Figure 7b were identified.

ANOMALY A

Located in the northeast corner of the claim block, this anomaly is comprised of a group of weakly anomalous and anomalous soil and rock samples. Bedrock samples are predominantly a limonitic, grey chert with local quartz veining. Float consisting of rusty chert with quartz stockwork veining, limestone with quartz stringers and shale with minor pyrite were also noted in the anomaly area. The anomaly includes sample 1234038 which returned 114.5 gpt Au in what is described as a decomposing quartz and chert conglomerate cross-cutting the local bedding.

ANOMALY B

This anomaly is located in the south central portion of the claim block, and consists of a number of anomalous and weakly anomalous soil and rock samples. Bedrock samples from the eastern part of the anomaly were locally rusty, black chert with minor quartz veining, whereas, to the west, samples were predominantly a grey chert. Quartz veining and disseminated sulphides are ubiquitous. There is a strong Sb>As silt anomaly from a prior regional survey located within the drainage system for the ridge on which Anomaly B is situated.

ANOMALY C

The anomaly is situated in the western part of the property and includes weakly anomalous soil and rock samples, and two anomalous soil samples. Bedrock in the area includes shale, chert and siltstone. Most samples were limonitic and contained minor sulphides. Quartz veining is present locally. A nearby strong As silt anomaly from a prior regional survey appears to be located outside of the drainage system for the ridge on which Anomaly C is situated.

ANOMALY D

Anomaly D is a small anomaly in the central part of the northwest portion of the claim block. The anomaly consists of only four weakly anomalous and anomalous soil samples. The bedrock appears to be predominantly chert containing minor pyrite. Carbonate stringers were noted in the area. Two regional silt samples (Sb>As and Hg>Sb>as) from a previous survey were taken from a stream draining the ridge on which the anomaly is situated.

10.2 Conclusions

ATAC's results at Osiris and Rau demonstrate the widespread potential for Carlin-style mineralization in calcareous Selwyn Basin rocks similar to those that underlie the Emerald property. The proximity to mid Cretaceous intrusions indicates potential for structurally controlled gold deposits distal to the intrusion, and could have acted as a source of low temperature mineralizing fluids involved in forming Carlin-style replacements.

The gold in soil sample set appears to consist of three subsets which include a base population, a weakly anomalous subset and an anomalous subset. A high percentage of anomalous gold samples occur as a distinct population with values between 13.3 and 20 ppb Au. Since these samples do not occur as a cluster, they cannot be attributed to a single geological formation. The correlation analysis indicates a weak association between gold and the elements associated with Carlin-style gold mineralization, namely arsenic, antimony, mercury, and thallium.

Three of the four anomalies identified appear to be the result of structurally controlled quartz veining possibly related to the granitic intrusion. The anomalous soil samples with values >20 ppb Au were commonly taken in close proximity to grey chert units which may show local quartz veining and disseminated sulphides.

11.0 RECOMMENDATIONS

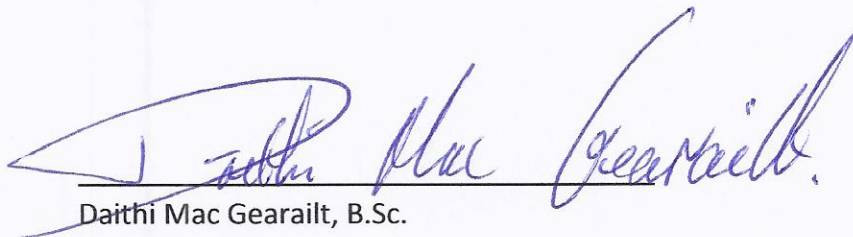
The recommended follow up program should focus on each of the four geochemically anomalous areas outlined in this report. The known stream silt geochemistry that is yet be explained needs further investigation. Further sampling and prospecting is needed to evaluate the property in more detail.

It is estimated that each of the anomalies would require a crew of 4 for 2 days of grid style soil sampling and detailed geological mapping.

Table 4: Proposed budget for the recommended 2012 follow-up field program on the Emerald Property.

Item #	Program Item	Proposed Cost
1	6 men x 10 days @ \$2,700 per day	\$27,000
2	Camp, food and accommodation @ 800 per day	\$8,000
3	Mapping @ \$700 per day	\$7,000
4	Assaying: 1000 soil samples @ \$30 per sample	\$30,000
5	Assaying: 200 rocks samples @ \$30 per rock	\$6,000
6	Helicopter x 16 hrs @ \$2000 per hr + fuel	\$32,000
7	Contingency @ 10%	11,000
	TOTAL BUDGET	\$121,000

Respectfully submitted,



Daithi Mac Gearailt, B.Sc.

31 May 2012

12.0 REFERENCES

- Chakungal, J. and Bennett, V., 2011, New bedrock geology of Mount Mervyn map sheet (106C/04) and mineral potential for the South Wernecke mapping project. *In*: Yukon Exploration and Geology 2010, K.E. MacFarlane, L.H. Weston and C. Relf (eds.), Yukon Geological Survey, p. 55-87.
- Hart, C.J.R. and Selby, D. (2001): Timing Relationships between Plutonism and Gold Mineralization in the Tintina Gold Belt (Yukon and Alaska) using Re-Os Molybdenite Dating *in* A Hydrothermal Odyssey: New Developments in Metalliferous Hydrothermal Systems Research., James Cook University, Townsville, Queensland, pp17-19.
- Hart, C.J.R.: The Geological Framework of the Yukon Territory. Yukon Geological Survey, (www.geology.gov.yk.ca/geology_metallogeny.html).
- Héon, D. (compiler), 2003. Yukon Regional Geochemical Database 2003 - Stream sediment analyses. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- Hofstra A.H, and Cline J.S. (2000): Characteristics and models for Carlin-type gold deposits. *In* Society of Economic Geologist Reviews, Economic Geology 13, p. 163-220.
- Thiessen, E.J., Gleeson, S.A., Dufrane, S.A., Carne, R.C., and Dumala, M., 2012. Upper age constraint and paragenesis of the Tiger zone, Rau property, central Yukon. *In*: Yukon Exploration and Geology 2011, K.E. MacFarlane and P.J. Sack (eds.), Yukon Geological Survey, p. 151-164.

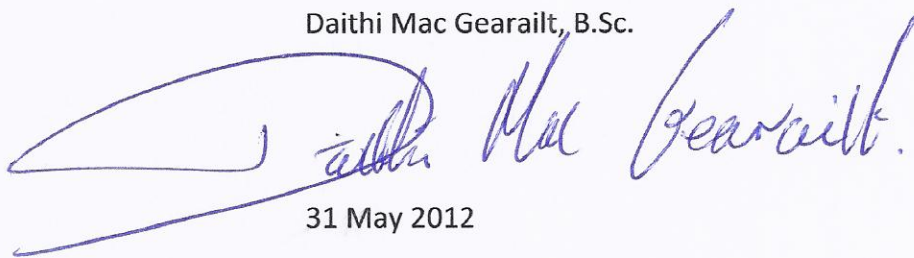
13.0 STATEMENT OF QUALIFICATIONS OF AUTHOR[S]

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 Emerald 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.



31 May 2012

Nov -17-2011

96025

DAB

EXPLORATION COSTS ASSOCIATED WITH THE EMERALD PROPERTY BETWEEN Aug 25st and Aug 30th - 2011		MAYO - EM Claims (220)	
ITEM	COST/ UNIT	UNIT AMOUNT	TOTAL
Huges 500D Helicopter - Prsim	\$ 1,215.00	10.4	\$ 12,636.00
Huges 500D Helicopter - Prsim (billed minimums)	\$ 920.00	1.6	\$ 1,472.00
ROCK ASSAY	\$ 28.88	80	\$ 2,310.40
SOIL ASSAY	\$ 18.00	148	\$ 2,664.00
Geologist - 1 x \$450 each	\$ 450.00	6	\$ 2,700.00
1 x Prospector 450 / day	\$ 450.00	6	\$ 2,700.00
2 x Soil Samplers \$300/day	\$ 600.00	6	\$ 3,600.00
Hotel /\$140 / night x 3 rooms	\$ 420.00	5	\$ 2,100.00
Hotel supplied meals / \$30/man/day	\$ 150.00	5	\$ 750.00
Truck Rental (DX)	\$ 120.00	6	\$ 720.00
Report preperation	\$ 2,000.00	1	\$ 2,000.00
		TOTAL	\$ 33,652.40

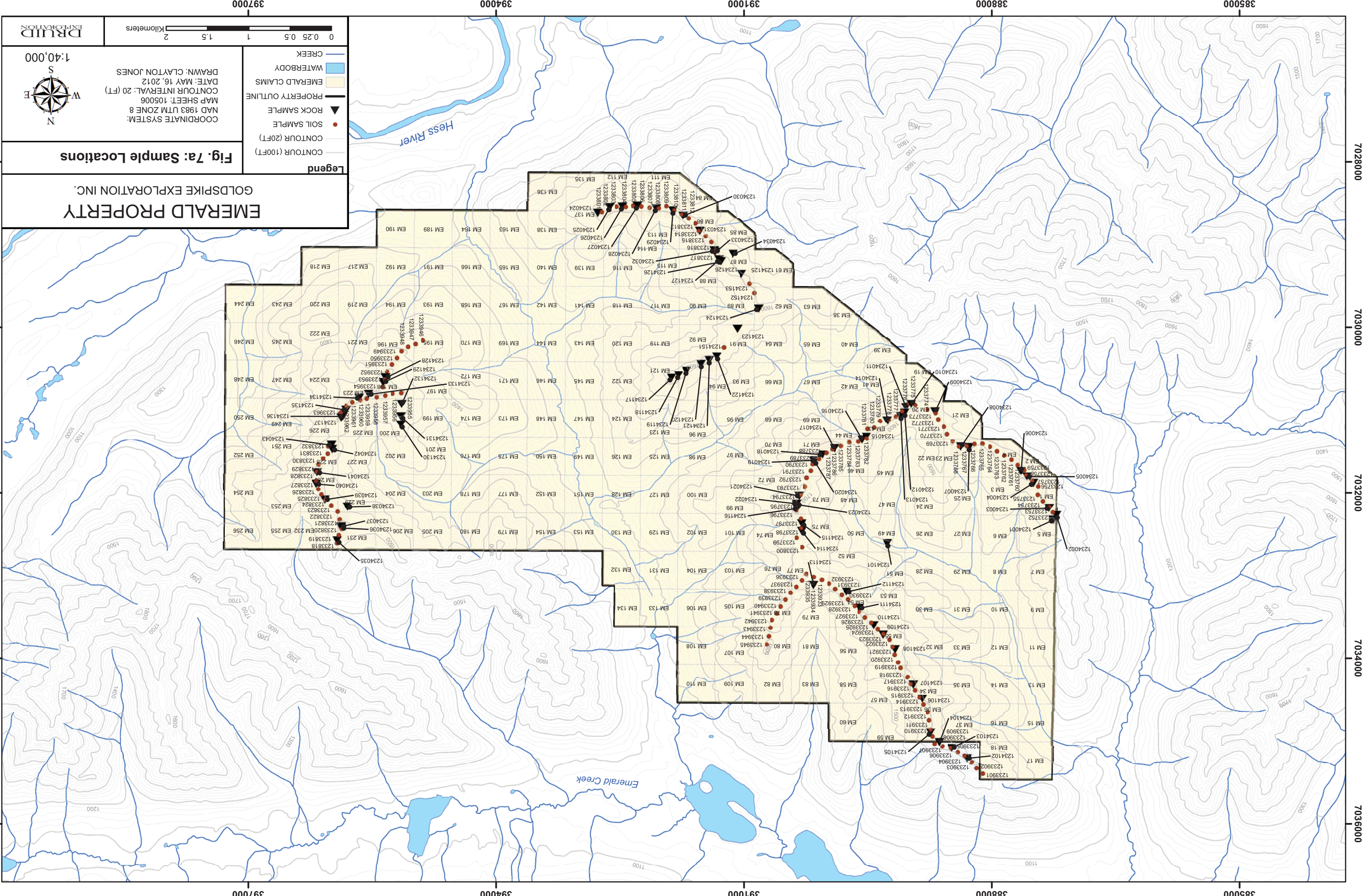


Q120/336

APPENDIX I

Figure 7a: Emerald Property Sample Locations

Figure 7b: Emerald Property Geochemical Anomalies



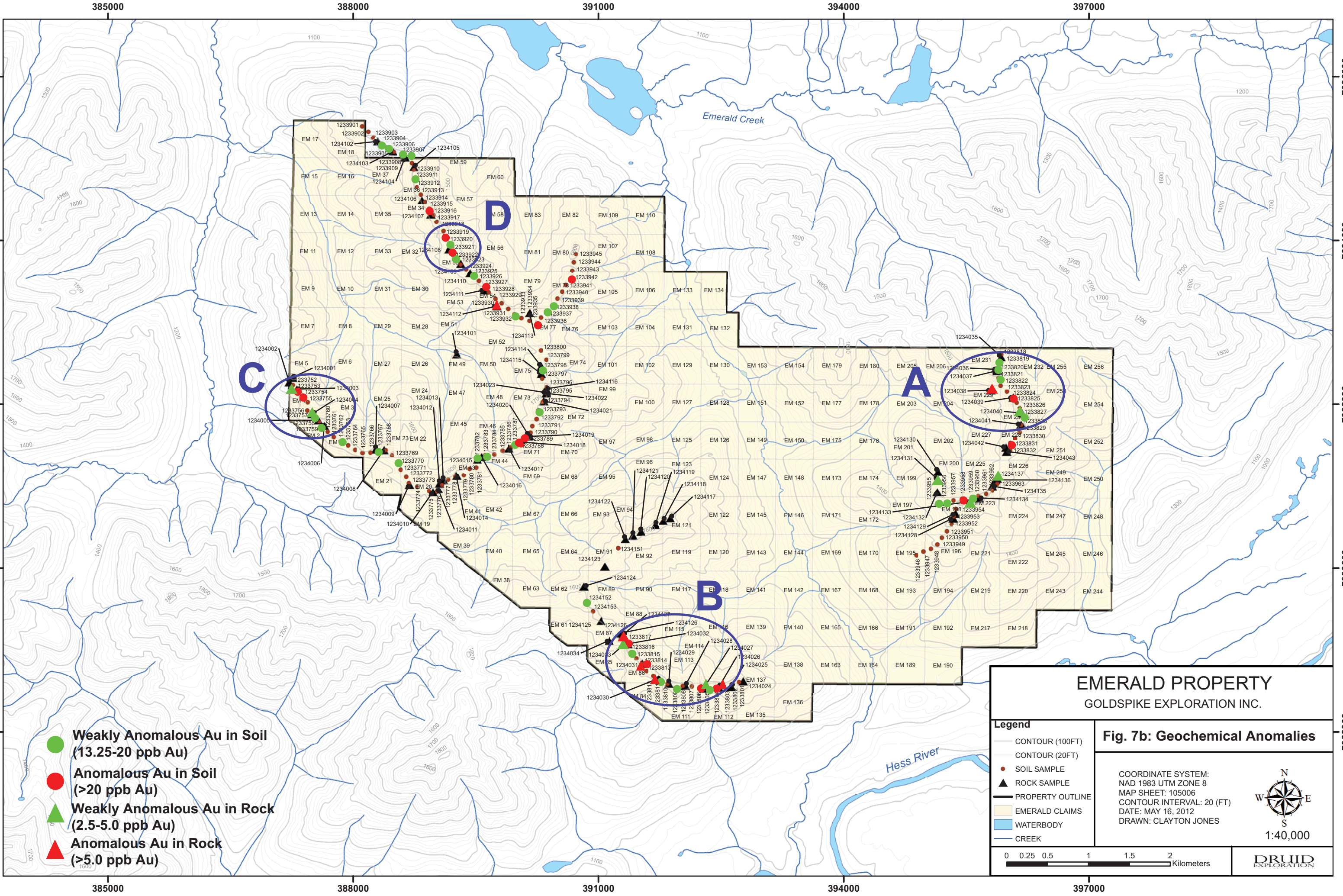
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NAD 1983 UTM ZONE 8
MAP SHEET: 105006
CONTOUR INTERVAL: 20 (FT)
DATE: MAY 16, 2012
DRAWN: CLAYTON JONES



1:40,000

Fig. 7a: Sample Locations

EMERALD PROPERTY
GOLDSPIKE EXPLORATION INC.



APPENDIX II

Table 3	Soil Sample Descriptions
Table 4	Soil Sample Results
Table 5	Rock Sample Descriptions
Table 6	Rock Sample Results

Table 3: Emerald Property - Soil Sample Descriptions

Property:	Emerald
Project Geologist:	Edward Dashwood
GPS Datum & Zone:	NAD 83 / Zone 9N
Lab:	Acme Labs

Samplers			
ED	Edward Dashwood	GG	Greg Galloway
IY	Inyo Youngreen	SL	Sam Lewis

Lab Tag Number	Quartz Mining Claim	Sample Date	Soil Sampler	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Sample Colour	Sample Comp. %						Parent Material	Moisture Content	Vegetation Cover	Topo Position
				Easting	Northing	Elev.				Organics	Ang-Rock	Gravel	Sand	Silt	Clay				
1233752	EM-5	26-Aug-2011	SL	387258	7032238	1598	30-40	c	light brown		30		70			weathered bedrock	dry	alpine	ridge top
1233753	EM-1	26-Aug-2011	SL	387303	7032174	1589	30-40	c	dark brown		40		60			weathered bedrock	dry	alpine	ridge top
1233754	EM-1	26-Aug-2011	SL	387377	7032104	1561	>80	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233755	EM-1	26-Aug-2011	SL	387435	7032028	1551	60-70	c	dark brown		20		80			weathered bedrock	moist	alpine	ridge top
1233756	EM-1	26-Aug-2011	SL	387442	7031923	1587	40-50	c	light brown		30		70			weathered bedrock	dry	alpine	ridge top
1233757	EM-1	26-Aug-2011	SL	387511	7031856	1609	30-40	c	dark brown		10		90			weathered bedrock	dry	alpine	mid slope
1233758	EM-2	26-Aug-2011	SL	387584	7031787	1647	70-80	c	dark brown		20		80			weathered bedrock	dry	alpine	mid slope
1233759	EM-2	26-Aug-2011	SL	387606	7031726	1685	70-80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233760	EM-4	26-Aug-2011	SL	387684	7031667	1659	>80	c	black		0		80	20		weathered bedrock	dry	alpine	ridge top
1233761	EM-4	26-Aug-2011	SL	387759	7031604	1666	20-30	b/c	dark brown		40		60			weathered bedrock	dry	alpine	ridge top
1233762	EM-4	26-Aug-2011	SL	387848	7031554	1653	60-70	c	black		30		70			weathered bedrock	dry	alpine	ridge top
1233763	EM-4	26-Aug-2011	SL	387937	7031498	1633	50-60	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233764	EM-4	26-Aug-2011	SL	388018	7031445	1629	50-60	c	light brown		20		80			weathered bedrock	dry	alpine	ridge top
1233765	EM-4	26-Aug-2011	SL	388112	7031411	1611	60-70	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233766	EM-23	26-Aug-2011	SL	388211	7031414	1630	40-50	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233767	EM-23	26-Aug-2011	SL	388303	7031439	1654	40-50	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233768	EM-23	26-Aug-2011	SL	388397	7031441	1686	40-50	c	black		20		80			weathered bedrock	dry	alpine	ridge top
1233769	EM-23	26-Aug-2011	SL	388472	7031380	1699	60-70	c	dark brown		0		80	20		weathered bedrock	dry	alpine	ridge top
1233770	EM-21	26-Aug-2011	SL	388543	7031295	1653	60-70	c	light brown		10		90			weathered bedrock	dry	alpine	ridge top
1233771	EM-21	26-Aug-2011	SL	388579	7031205	1677	40-50	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233772	EM-20	26-Aug-2011	SL	388647	7031116	1668	50-60	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233773	EM-20	26-Aug-2011	SL	388678	7031039	1653	>80	c	black		0		1000			weathered bedrock	dry	alpine	ridge top
1233774	EM-20	26-Aug-2011	SL	388776	7030996	1648	70-80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233775	EM-20	26-Aug-2011	SL	388928	7030942	1632	>80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233776	EM-20	26-Aug-2011	SL	389024	7030935	1638	70-80	c	light brown		20		80			weathered bedrock	dry	alpine	ridge top
1233777	EM-43	26-Aug-2011	SL	389081	7031020	1593	50-60	c	light brown		10		90			weathered bedrock	dry	alpine	ridge top
1233778	EM-43	26-Aug-2011	SL	389157	7031082	1623	50-60	c	light brown		10		90			weathered bedrock	dry	alpine	ridge top
1233779	EM-43	26-Aug-2011	SL	389242	7031119	1635	>80	c	dark brown		0		80	20		weathered bedrock	dry	alpine	ridge top
1233780	EM-43	26-Aug-2011	SL	389343	7031135	1649	30-40	c	black		20		80			weathered bedrock	dry	alpine	ridge top

Table 3: Emerald Property - Soil Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Soil Sampler	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Sample Colour	Sample Comp. %						Parent Material	Moisture Content	Vegetation Cover	Topo Position
				Easting	Northing	Elev.				Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1233781	EM-44	26-Aug-2011	SL	389423	7031215	1668	20-30	c	dark brown		30		70			weathered bedrock	dry	alpine	ridge top
1233782	EM-44	26-Aug-2011	SL	389498	7031231	1681	50-60	c	dark brown		30		70			weathered bedrock	dry	alpine	ridge top
1233783	EM-46	26-Aug-2011	SL	389511	7031345	1663	50-60	c	dark brown		40		60			weathered bedrock	dry	alpine	ridge top
1233784	EM-46	26-Aug-2011	SL	389611	7031382	1628	50-60	c	light brown		30		70			weathered bedrock	dry	alpine	ridge top
1233785	EM-46	26-Aug-2011	SL	389714	7031393	1606	70-80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233786	EM-46	26-Aug-2011	SL	389827	7031436	1612	10-20	c	dark brown	10	30		60			weathered bedrock	dry	alpine	ridge top
1233787	EM-71	26-Aug-2011	SL	389928	7031474	1650	50-60	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233788	EM-71	26-Aug-2011	SL	389998	7031518	1671	>80	c	dark brown		0		80	20		weathered bedrock	dry	alpine	ridge top
1233789	EM-71	26-Aug-2011	SL	390091	7031594	1707	30-40	c	dark brown		40		60			weathered bedrock	dry	alpine	ridge top
1233790	EM-71	26-Aug-2011	SL	390163	7031654	1689	70-80	c	black		10		90			weathered bedrock	dry	alpine	ridge top
1233791	EM-71	26-Aug-2011	SL	390182	7031734	1677	>80	c	black		0		70	30		weathered bedrock	dry	alpine	ridge top
1233792	EM-73	26-Aug-2011	SL	390241	7031821	1686	50-60	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233793	EM-73	26-Aug-2011	SL	390260	7031927	1714	40-50	c	black		10		90			weathered bedrock	dry	alpine	ridge top
1233794	EM-73	26-Aug-2011	SL	390315	7032030	1718	60-70	b/c	dark brown	10	0		50	40		weathered bedrock	dry	alpine	ridge top
1233795	EM-73	26-Aug-2011	SL	390359	7032135	1701	40-50	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233796	EM-73	26-Aug-2011	SL	390361	7032214	1717	70-80	c	light brown		20		80			weathered bedrock	dry	alpine	ridge top
1233797	EM-75	26-Aug-2011	SL	390309	7032318	1686	>80	c	black		0		50	50		weathered bedrock	dry	alpine	ridge top
1233798	EM-75	26-Aug-2011	SL	390305	7032428	1694	>80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233799	EM-75	26-Aug-2011	SL	390360	7032546	1657	50-60	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233800	EM-75	26-Aug-2011	SL	390295	7032659	1611	>80	c	black		0		70	30		weathered bedrock	moist	alpine	ridge top
1233801	EM-137	28-Aug-2011	SL	392717	7028610	1542	50-60	c	dark brown		10		80	10		weathered bedrock	dry	alpine	ridge top
1233802	EM-112	28-Aug-2011	SL	392627	7028582	1534	60-70	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233803	EM-112	28-Aug-2011	SL	392538	7028546	1533	40-50	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233804	EM-112	28-Aug-2011	SL	392433	7028548	1527	30-40	b/c	dark brown		20	20	60			weathered bedrock	dry	alpine	ridge top
1233805	EM-112	28-Aug-2011	SL	392335	7028535	1542	50-60	c	dark brown		30		70			weathered bedrock	dry	alpine	ridge top
1233806	EM-112	28-Aug-2011	SL	392241	7028543	1572	50-60	c	light brown		0		80	20		weathered bedrock	dry	alpine	ridge top
1233807	EM-111	28-Aug-2011	SL	392137	7028559	1598	60-70	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233808	EM-111	28-Aug-2011	SL	392033	7028563	1625	20-30	b/c	dark brown		30	20	50			weathered bedrock	dry	alpine	ridge top
1233809	EM-111	28-Aug-2011	SL	391937	7028539	1648	20-30	b/c	dark brown		30	20	50			weathered bedrock	dry	alpine	ridge top
1233810	EM-111	28-Aug-2011	SL	391843	7028589	1624	70-80	c	dark brown		10		90			weathered bedrock	dry	alpine	ridge top
1233811	EM-86	28-Aug-2011	SL	391752	7028637	1622	>80	c	dark brown		0		70	30		weathered bedrock	dry	alpine	ridge top
1233812	EM-86	28-Aug-2011	SL	391669	7028686	1631	20-30	c	light brown		20		80			weathered bedrock	dry	alpine	ridge top
1233813	EM-86	28-Aug-2011	SL	391584	7028746	1643	40-50	c	dark brown		30	10	60			weathered bedrock	dry	alpine	ridge top
1233814	EM-86	28-Aug-2011	SL	391542	7028835	1627	30-40	b/c	dark brown		30	20	50			weathered bedrock	dry	alpine	ridge top
1233815	EM-86	28-Aug-2011	SL	391458	7028901	1610	70-80	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top

Table 3: Emerald Property - Soil Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Soil Sampler	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Sample Colour	Sample Comp. %						Parent Material	Moisture Content	Vegetation Cover	Topo Position
				Easting	Northing	Elev.				Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1233816	EM-86	28-Aug-2011	SL	391391	7028971	1635	40-50	b/c	dark brown		30	20	50			weathered bedrock	dry	alpine	ridge top
1233817	EM-88	28-Aug-2011	SL	391351	7029083	1632	50-60	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233818	EM-232	29-Aug-2011	SL	395925	7032612	1650	50-60	c	dark brown		20	20	60			weathered bedrock	dry	alpine	ridge top
1233819	EM-232	29-Aug-2011	SL	395902	7032515	1681	30-40	c	dark brown		30		70			weathered bedrock	dry	alpine	ridge top
1233820	EM-231	29-Aug-2011	SL	395869	7032442	1710	50-60	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233821	EM-231	29-Aug-2011	SL	395889	7032326	1691	50-60	c	dark brown		10		80	10		weathered bedrock	dry	alpine	ridge top
1233822	EM-229	29-Aug-2011	SL	395913	7032227	1674	>80	c	black		0		100			weathered bedrock	saturated	alpine	ridge top
1233823	EM-230	29-Aug-2011	SL	395995	7032155	1696	70-80	c	light brown		0		70	30		weathered bedrock	dry	alpine	ridge top
1233824	EM-230	29-Aug-2011	SL	396062	7032085	1701	40-50	c	dark brown		30	10	60			weathered bedrock	dry	alpine	ridge top
1233825	EM-230	29-Aug-2011	SL	396110	7032024	1727	20-30	c	dark grey		30	10	60			weathered bedrock	dry	alpine	ridge top
1233826	EM-230	29-Aug-2011	SL	396150	7031960	1745	40-50	c	dark brown		20		80			weathered bedrock	dry	alpine	ridge top
1233827	EM-230	29-Aug-2011	SL	396176	7031860	1748	>80	c	dark brown		0		60	40		weathered bedrock	moist	alpine	ridge top
1233828	EM-228	29-Aug-2011	SL	396164	7031746	1722	40-50	c	dark brown		0		60	40		weathered bedrock	dry	alpine	ridge top
1233829	EM-228	29-Aug-2011	SL	396149	7031660	1706	50-60	c	dark grey		10		60	30		weathered bedrock	dry	alpine	ridge top
1233830	EM-228	29-Aug-2011	SL	396095	7031585	1699	40-50	c	dark brown		30	10	60			weathered bedrock	dry	alpine	ridge top
1233831	EM-228	29-Aug-2011	SL	396033	7031527	1693	20-30	b/c	dark brown	10	20		70			weathered bedrock	dry	alpine	ridge top
1233832	EM-228	29-Aug-2011	SL	396028	7031440	1668	30-40	b/c	light brown		30	20	50			weathered bedrock	dry	alpine	ridge top
1233901	EM-18	26-Aug-2011	GG	388110	7035396	1559	60-70	c	black		10		30	40	20	weathered bedrock	moist	alpine	mid slope
1233902	n/a	26-Aug-2011	GG	388181	7035329	1588	50-60	c	black	10	20		30	40		weathered bedrock	moist	alpine	mid slope
1233903	n/a	26-Aug-2011	GG	388241	7035259	1616	30-40	c	dark brown	20	10		30	40		weathered bedrock	moist	alpine	ridge top
1233904	n/a	26-Aug-2011	GG	388327	7035180	1620	30-40	c	dark brown	20	40		20	20		weathered bedrock	moist	alpine	ridge top
1233905	n/a	26-Aug-2011	GG	388410	7035136	1620	10-20	c	light brown	10	50		20	20		weathered bedrock	moist	alpine	mid slope
1233906	n/a	26-Aug-2011	GG	388492	7035084	1640	10-20	c	light brown	20	40		10	20	10	weathered bedrock	moist	alpine	ridge top
1233907	n/a	26-Aug-2011	GG	388592	7035065	1641	20-30	c	dark brown	20	30		0	30	20	weathered bedrock	moist	alpine	mid slope
1233908	n/a	26-Aug-2011	GG	388689	7035035	1652	60-70	c	dark brown	20	20		0	40	20	weathered bedrock	moist	alpine	mid slope
1233909	EM-36	26-Aug-2011	GG	388713	7034946	1689	30-40	c	dark brown	20	30		0	40	10	weathered bedrock	moist	alpine	ridge top
1233910	EM-36	26-Aug-2011	GG	388737	7034866	1703	10-20	c	dark grey		60		20	20		weathered bedrock	moist	alpine	ridge top
1233911	EM-36	26-Aug-2011	GG	388757	7034750	1726	50-60	c	dark brown	10	30		30	30		weathered bedrock	moist	alpine	ridge top
1233912	EM-36	26-Aug-2011	GG	388774	7034653	1723	50-60	c	dark brown	20	20		0	40	20	weathered bedrock	moist	alpine	ridge top
1233913	EM-36	26-Aug-2011	GG	388822	7034560	1741	50-60	c	dark brown	10	30		0	40	20	weathered bedrock	moist	alpine	ridge top
1233914	EM-34	26-Aug-2011	GG	388871	7034473	1733	20-30	c	light brown	20	20		0	40	20	weathered bedrock	moist	alpine	ridge top
1233915	EM-34	26-Aug-2011	GG	388928	7034387	1722	60-70	c	dark brown	10	30		40	20		weathered bedrock	moist	alpine	ridge top
1233916	EM-34	26-Aug-2011	GG	388978	7034315	1718	0-10	c	light brown		30		40	30		talus	moist	alpine	mid slope
1233917	EM-34	26-Aug-2011	GG	389019	7034230	1711	>80	c	black		30		50	20		weathered bedrock	moist	alpine	ridge top
1233918	EM-57	26-Aug-2011	GG	389100	7034118	1738	30-40	c	light brown	10	30		30	20	10	weathered bedrock	moist	alpine	ridge top

Table 3: Emerald Property - Soil Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Soil Sampler	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Sample Colour	Sample Comp. %						Parent Material	Moisture Content	Vegetation Cover	Topo Position
				Easting	Northing	Elev.				Organics	Ang-Rock	Gravel	Sand	Silt	Clay				
1233919	EM-55	26-Aug-2011	GG	389128	7034051	1763	0-10	c	light brown		50		30	20		weathered bedrock	moist	alpine	ridge top
1233920	EM-55	26-Aug-2011	GG	389174	7033962	1763	20-30	c	light brown		50		30	20		weathered bedrock	moist	alpine	ridge top
1233921	EM-55	26-Aug-2011	GG	389197	7033870	1775	0-10	c	dark brown		80		20			weathered bedrock	moist	alpine	ridge top
1233922	EM-55	26-Aug-2011	GG	389239	7033777	1757	>80	c	dark brown		20		30	20	30	weathered bedrock	moist	alpine	ridge top
1233923	EM-55	26-Aug-2011	GG	389314	7033709	1782	40-50	c	light brown		30		30	30	10	weathered bedrock	moist	alpine	ridge top
1233924	EM-55	26-Aug-2011	GG	389379	7033654	1778	30-40	c	light brown	10	10		30	50		weathered bedrock	moist	alpine	mid slope
1233925	EM-53	26-Aug-2011	GG	389458	7033574	1757	0-10	c	light brown		40		30	30		weathered bedrock	moist	alpine	ridge top
1233926	EM-54	26-Aug-2011	GG	389534	7033511	1705	>80	c	black		10		40	50		weathered bedrock	moist	alpine	ridge top
1233927	EM-54	26-Aug-2011	GG	389602	7033443	1686	60-70	c	light brown		20		20	40	20	weathered bedrock	moist	alpine	mid slope
1233928	EM-54	26-Aug-2011	GG	389660	7033369	1650	20-30	c	dark brown	10	40		30	20		weathered bedrock	moist	alpine	ridge top
1233929	EM-54	28-Aug-2011	GG	389738	7033293	1635	30-40	b/c	light brown	10	10		20	40	20	weathered bedrock	moist	alpine	mid slope
1233930	EM-54	28-Aug-2011	GG	389809	7033240	1616	0-10	c	light brown		10		20	50	20	talus	moist	alpine	mid slope
1233931	EM-51	28-Aug-2011	GG	389895	7033166	1625	70-80	c	black		30		40	30		weathered bedrock	moist	alpine	mid slope
1233932	EM-77	28-Aug-2011	GG	389967	7033099	1664	0-10	c	light brown		60		30	10		talus	moist	alpine	mid slope
1233933	EM-77	28-Aug-2011	GG	390055	7033057	1667	30-40	c	dark brown	20	10		10	30	30	weathered bedrock	moist	alpine	mid slope
1233934	EM-77	28-Aug-2011	GG	390154	7033022	1680	20-30	c	dark brown		20		20	40	20	weathered bedrock	moist	alpine	mid slope
1233935	EM-77	28-Aug-2011	GG	390246	7032984	1697	40-50	c	dark brown		30		50	20		weathered bedrock	moist	alpine	mid slope
1233936	EM-77	28-Aug-2011	GG	390299	7033062	1669	70-80	c	black		20		50	30		weathered bedrock	moist	alpine	mid slope
1233937	EM-77	28-Aug-2011	GG	390365	7033141	1671	>80	c	light brown		20		50	30		weathered bedrock	moist	alpine	mid slope
1233938	EM-78	28-Aug-2011	GG	390433	7033211	1675	50-60	c	dark brown		50		50			weathered bedrock	dry	alpine	ridge top
1233939	EM-78	28-Aug-2011	GG	390495	7033295	1627	0-10	c	light brown		90		10			talus	moist	alpine	mid slope
1233940	EM-78	28-Aug-2011	GG	390550	7033376	1618	30-40	b/c	light brown	20	20		0	30	30	weathered bedrock	dry	alpine	mid slope
1233941	EM-78	28-Aug-2011	GG	390599	7033464	1633	60-70	c	dark brown		20		40	40		weathered bedrock	dry	alpine	ridge top
1233942	EM-78	28-Aug-2011	GG	390657	7033543	1627	10-20	c	light brown	10	30		60			talus	moist	alpine	mid slope
1233943	EM-80	28-Aug-2011	GG	390678	7033634	1608	60-70	c	dark brown	10	20		0	40	30	weathered bedrock	moist	alpine	mid slope
1233944	EM-80	28-Aug-2011	GG	390695	7033738	1570	50-60	c	dark brown	20	20		60			weathered bedrock	moist	alpine	bench
1233945	EM-80	28-Aug-2011	GG	390719	7033837	1607	50-60	c	dark brown	10	10		10	40	30	weathered bedrock	moist	alpine	mid slope
1233946	EM-195	29-Aug-2011	GG	394885	7030165	1493	20-30	c	light brown	10	20		30	40		weathered bedrock	moist	alpine	ridge top
1233947	EM-195	29-Aug-2011	GG	394974	7030208	1466	40-50	c	dark brown	20	10		10	40	20	weathered bedrock	moist	alpine	mid slope
1233948	EM-196	29-Aug-2011	GG	395065	7030240	1488	50-60	c	dark brown	10	20		30	40		weathered bedrock	moist	alpine	mid slope
1233949	EM-196	29-Aug-2011	GG	395140	7030290	1513	40-50	c	dark brown	10	20		40	30		weathered bedrock	moist	alpine	mid slope
1233950	EM-196	29-Aug-2011	GG	395201	7030377	1520	30-40	c	light brown		20		50	30		weathered bedrock	dry	alpine	mid slope
1233951	EM-198	29-Aug-2011	GG	395259	7030452	1570	30-40	c	dark brown		30		40	30		weathered bedrock	moist	alpine	mid slope
1233952	EM-198	29-Aug-2011	GG	395317	7030536	1602	40-50	c	dark brown	10	20		20	50		weathered bedrock	moist	alpine	ridge top
1233953	EM-198	29-Aug-2011	GG	395340	7030633	1634	60-70	c	black		10		20	40	30	weathered bedrock	moist	alpine	mid slope

Table 3: Emerald Property - Soil Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Soil Sampler	Sample UTM Coordinates			Sample Depth (cm)	Horizon Sampled	Sample Colour	Sample Comp. %						Parent Material	Moisture Content	Vegetation Cover	Topo Position
				Eastings	Northing	Elev.				Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1233954	EM-198	29-Aug-2011	GG	395368	7030726	1671	50-60	c	dark brown		10		30	40	20	weathered bedrock	moist	alpine	mid slope
1233955	EM-198	29-Aug-2011	GG	395248	7030806	1660	30-40	c	dark brown	20	10		20	50		weathered bedrock	moist	alpine	mid slope
1233956	EM-198	29-Aug-2011	GG	395148	7030799	1622	30-40	c	dark brown	10	10		40	40		weathered bedrock	moist	alpine	mid slope
1233957	EM-198	29-Aug-2011	GG	395344	7030830	1697	50-60	c	black		20		20	30	30	weathered bedrock	moist	alpine	ridge top
1233958	EM-198	29-Aug-2011	GG	395445	7030848	1690	40-50	c	dark brown		30		40	30		weathered bedrock	moist	alpine	mid slope
1233959	EM-225	29-Aug-2011	GG	395565	7030865	1686	10-20	c	dark brown	10	10		50	30		weathered bedrock	dry	alpine	mid slope
1233960	EM-225	29-Aug-2011	GG	395640	7030881	1714	30-40	b/c	dark brown	40	10		0	40	10	weathered bedrock	moist	alpine	ridge top
1233961	EM-225	29-Aug-2011	GG	395734	7030908	1721	30-40	b/c	dark brown	30	20		0	10	40	weathered bedrock	moist	alpine	ridge top
1233962	EM-225	29-Aug-2011	GG	395812	7030952	1689	40-50	c	dark brown	20	10		0	40	30	weathered bedrock	moist	alpine	mid slope
1233963	EM-225	29-Aug-2011	GG	395871	7031031	1664	40-50	c	dark brown	10	20		0	40	30	weathered bedrock	moist	alpine	mid slope
1234151	EM-91	28-Aug-2011	ED	391239	7030247	1582	30	c	black		40		0	40	20	weathered bedrock	dry	alpine	ridge top
1234152	EM-89	28-Aug-2011	ED	390872	7029589	1601	30	c	light brown		40		0	40	20	weathered bedrock	dry	alpine	ridge top
1234153	EM-87	28-Aug-2011	ED	390935	7029476	1612	25	c	black		40		0	40	20	weathered bedrock	dry	alpine	ridge top

Table 4: Emerald Property - Soil Sample Results

DRUID
EXPLORATION

Property:	Emerald
Project Geologist:	Edward Dashwood
GPS Datum & Zone:	NAD 83 / Zone 9N
Lab:	Acme Labs

Lab Tag Number	Sample UTM Coordinates			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	Certificate of Analysis
	Easting	Northing	Elev.																																					
1233752	387258	7032238	1598	9.2	111.4	61.7	118	<0.1	55	21	4660	7.94	48.6	3.7	6.5	83	0.5	10.6	0.8	30	0.41	0.146	23	17	0.27	600	0.004	3	1.3	0.007	0.21	<0.1	0.16	5.9	0.2	0.19	3	1.2	0.6	WHI11001422
1233753	387303	7032174	1589	13.4	93	32.2	297	0.5	45.3	13.8	143	5.16	25.4	21.7	3.3	29	0.3	3.9	0.4	65	0.04	0.093	10	24	0.14	240	0.01	3	1.19	0.004	0.12	<0.1	0.28	2.3	0.3	<0.05	4	3.5	<0.2	WHI11001422
1233754	387377	7032104	1561	21.6	151.2	32.6	1263	2.6	270.1	47.6	3536	8.74	459.9	40.4	2.1	71	7.7	49.4	0.4	90	0.22	0.153	9	16	0.05	2218	0.001	2	0.48	0.002	0.06	<0.1	1.03	4.6	0.7	<0.05	2	4.6	0.2	WHI11001422
1233755	387435	7032028	1551	22.6	108.8	23.6	548	2	77.6	8.9	180	4.37	59.7	4.3	1.4	109	10.2	16.1	0.3	260	0.21	0.267	17	23	0.08	448	0.003	4	0.91	0.025	0.17	<0.1	1.34	1.8	0.6	0.37	3	11	<0.2	WHI11001422
1233756	387442	7031923	1587	7.5	97.8	30.1	139	0.7	30.9	7.4	117	3.92	43.2	12.1	1.8	224	0.3	8.8	0.4	87	0.03	0.134	14	20	0.08	316	0.005	2	0.89	0.004	0.12	0.1	0.1	1.6	0.2	0.14	4	3	<0.2	WHI11001422
1233757	387511	7031856	1609	28.5	100.7	20.1	397	0.7	238.3	59.3	4577	8.33	12.1	15.2	3.7	33	4	3.6	0.2	211	0.13	0.06	36	28	0.35	1049	0.005	4	1.29	0.004	0.11	<0.1	0.32	8.2	0.4	<0.05	3	1.8	<0.2	WHI11001422
1233758	387584	7031787	1647	17.3	99.4	18.6	738	2.4	127.5	16.9	1561	5.28	63.8	8.2	3.9	62	12	8.7	0.2	70	0.37	0.152	24	19	0.11	527	0.001	4	0.64	0.017	0.14	<0.1	0.85	4	0.6	0.26	2	3.7	<0.2	WHI11001422
1233759	387606	7031726	1685	6.2	117.8	16.5	316	0.8	57	11.9	888	3.98	13.4	15.9	6.2	72	1.2	2.6	0.2	54	0.52	0.209	36	15	0.09	1082	0.002	7	0.56	0.004	0.15	0.2	0.55	4.9	0.4	<0.05	2	0.9	<0.2	WHI11001422
1233760	387684	7031667	1659	4.6	114.2	13.7	69	1.1	17.3	1.8	37	2.07	26.4	3.4	2.5	154	1.2	2.3	0.1	58	0.04	0.121	16	18	0.03	288	0.002	3	0.64	0.015	0.19	0.2	1.15	3	0.3	0.41	2	3.5	<0.2	WHI11001422
1233761	387759	7031604	1666	4.3	55.4	20.5	151	0.2	42.8	13.9	1488	3.69	15	6.8	0.4	12	0.5	3.4	0.3	65	0.1	0.103	15	29	0.19	547	0.006	2	1.11	0.003	0.06	0.1	0.08	1.3	0.2	0.05	4	1.3	<0.2	WHI11001422
1233762	387848	7031554	1653	30.1	208	21.8	655	0.9	74.2	9.9	272	3.8	28.5	13.8	2.1	80	4.2	11.2	0.2	127	1.28	0.695	21	21	0.13	608	0.005	9	1.04	0.003	0.24	<0.1	0.49	2.6	0.5	<0.05	3	11.2	0.4	WHI11001422
1233763	387937	7031498	1633	2.6	54.4	14.6	164	0.9	39.5	11.5	958	3.46	9.5	8.3	3.1	17	2.5	3	0.1	74	0.25	0.17	52	32	1.82	548	0.011	9	2.49	0.004	0.17	<0.1	0.2	3.7	0.2	<0.05	6	1	<0.2	WHI11001422
1233764	388018	7031445	1629	2.9	66.5	16.3	409	1.8	58.4	18.7	1069	3.15	8.6	11.6	3.1	30	1.8	2.2	0.1	119	0.45	0.14	30	30	1.29	1073	0.007	10	1.97	0.005	0.24	<0.1	0.25	4.4	0.2	<0.05	5	1.3	<0.2	WHI11001422
1233765	388112	7031411	1611	8.4	84.1	21.5	270	0.2	56.9	17.4	694	4.03	23.5	7.7	1.6	38	1.2	2.9	0.2	109	0.32	0.31	23	33	0.7	408	0.009	8	1.78	0.005	0.2	<0.1	0.17	1.3	0.4	0.05	6	2	<0.2	WHI11001422
1233766	388211	7031414	1630	7.6	77.6	14.1	191	0.7	31.3	7.1	273	2.74	13.4	6.8	0.8	17	2.3	3.1	0.2	81	0.21	0.185	17	20	0.49	612	0.003	5	1.24	0.003	0.15	<0.1	0.2	0.7	0.3	<0.05	4	1.6	<0.2	WHI11001422
1233767	388303	7031439	1654	19.7	181.9	17.3	493	2.2	68.5	9.4	304	2.95	19.3	16.8	2.3	69	2.6	6.9	0.2	94	1.15	0.467	21	19	0.2	659	0.004	4	1.14	0.003	0.16	0.1	0.51	3.1	0.4	<0.05	3	5.8	0.2	WHI11001422
1233768	388397	7031441	1686	24.5	171.2	17.9	527	0.8	57	6.7	178	2.56	17.1	8.6	0.8	66	3.4	8.2	0.2	158	0.94	0.511	15	24	0.15	537	0.004	9	1.01	0.004	0.21	0.1	0.38	1.2	0.4	<0.05	4	8.3	<0.2	WHI11001422
1233769	388472	7031380	1699	3.4	73.4	25.4	171	0.5	32.4	7.7	435	2.96	9.4	6.9	5.1	35	0.6	1.6	0.4	72	0.28	0.165	52	22	0.26	442	0.004	8	0.92	0.002	0.17	<0.1	0.16	3.1	0.3	<0.05	3	1.8	<0.2	WHI11001422
1233770	388543	7031295	1653	11.1	115.1	23.4	333	0.8	89.7	24.7	660	4.88	30	15.1	3.2	50	1	5.1	0.3	59	0.04	0.123	12	19	0.2	407	0.004	2	1.17	0.007	0.12	<0.1	0.19	3.5	0.2	0.16	3	2.7	<0.2	WHI11001422
1233771	388579	7031205	1677	42.1	106.9	14.6	813	1.8	115.4	10.1	298	2.78	30	7	3.4	106	10.2	16.4	0.2	206	0.6	0.132	7	11	0.18	717	0.002	5	0.56	0.009	0.16	<0.1	0.58	3.3	0.7	0.21	2	6.4	<0.2	WHI11001422
1233772	388647	7031116	1668	16.8	154.7	24.5	854	7.4	129	11.7	391	3.36	30.8	6.3	0.7	185	7.6	8.7	0.3	219	0.53	0.371	15	35	0.06	834	0.003	2	0.93	0.006	0.14	0.1	1.04	1	0.4	0.26	3	14.5	0.4	WHI11001422
1233773	388678	7031039	1653	22	258.9	13.3	1915	5.2	280.3	11.3	212	2.3	41.6	2.6	5.1	119	9.6	16.1	0.3	347	2.88	0.148	16	72	1.33	1190	0.003	8	0.24	0.005	0.08	<0.1	1.5	5.2	0.3	<0.05	2	11.2	<0.2	WHI11001422
1233774	388776	7030996	1648	5.7	124.2	11.8	405	2	71.9	12.2	128	3.2	31.3	10	4.8	29	2.1	34.8	0.3	52	0.14	0.143	17	13	0.03	249	0.002	3	0.52	0.003	0.09	0.2	0.17	5.3	0.2	<0.05	<1	1.9	<0.2	WHI11001422
1233775	388928	7030942	1632	8	82.7	11.4	279	0.6	69.1	12.9	593	4.02	20.2	9.2	4.6	58	1.3	7.6	0.3	68	2.39	0.06	17	14	1.22	744	0.002	4	0.25	0.006	0.06	<0.1	0.41	7	0.3	0.12	<1	6	<0.2	WHI11001422
1233776	389024	7030935	1638	12.1	110.9	18.2	1390	1.2	148.4	17.9	314	3.75	65.2	12.1	4.5	39	3.2	18.3	0.3	118	0.68	0.099	22	9	0.26	444	0.001	4	0.27	0.003	0.06	<0.1	0.9	5.3	0.5	0.1	<1	6.2	<0.2	WHI11001422
1233777	389081	7031020	1593	5	95	14.6	302	0.8	61.4	13.6	189	3.67	8.3	12.6	2	27	0.6	2.6	0.3	42	0.03	0.113	7	11	0.05	209	0.002	6	0.58	0.004	0.13	<0.1	0.16	3.6	0.2	0.08	2	1.2	<0.2	WHI11001422
1233778	389157	7031082	1623	7.4	84.4	30.4	182	0.4	80.3	15.5	1429	5.42	24.4	4.5	2.6	16	0.8	4.8	0.2	32	0.03	0.169	29	8	0.06	228	0.002	3	0.71	0.002	0.09	<0.1	0.47	5.9	0.4	<0.05	1	1.8	<0.2	WHI11001422
1233779	389242	7031119	1635	2.3	170.8	17.4	327	4.2	75.5	6.4	143	3.83	9.9	7.2	2	67	2.1	1.9	0.3	40	0.16	0.07	4	21	0.1	306	0.001													

Table 4: Emerald Property - Soil Sample Results

Lab Tag	Sample Number	Sample UTM Coordinates	Easting	Northing	Elev.	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	Al	Th	Sr	Cd	Sb	Bi	V	Cr	P	La	Ce	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Se	Te	Certificate of Analysis							
1233789	390091	7031594	1707	8.6	142.3	15.4	294	0.5	47.6	7.4	1216	5.02	47.1	22.2	0.2	5	0.7	15.6	0.2	48	0.04	0.125	5	13	0.03	98	0.002	2	0.26	0.001	0.03	0.03	0.01	0.07	1	0.1	<0.05	2	1.4	<0.2	WH11001422			
1233790	390163	7031654	1689	2.3	47.3	10.9	43	2.2	55.5	1	86	0.71	1.1	9.1	1.6	107	0.3	0.8	0.2	49	0.36	0.083	4	17	0.04	569	0.002	3	0.26	0.009	0.1	<0.1	0.33	0.9	0.1	0.17	1	3.2	<0.2	WH11001422				
1233792	390241	7031821	1686	15.4	58.1	10.8	311	0.9	61.3	13.2	835	4.69	11.2	7.6	2.3	49	4.5	1.5	0.2	137	0.27	0.044	11	17	0.25	644	0.006	2	0.97	0.007	0.09	0.1	0.23	3.7	0.3	0.07	2	1.8	<0.2	WH11001422				
1233794	390315	7032030	1718	0.5	137.5	15.1	158	0.1	51.5	22.4	>1000	2.7	9	4.6	59	2	9	0.2	1.1	<0.1	0.75	0.298	45	63	0.47	3740	0.005	8	1.69	0.003	0.18	<0.1	0.12	12.4	<0.1	5	5.6	<0.2	WH11001422					
1233796	390361	7032214	1717	6.1	93.9	35.4	100	0.5	48.9	10.9	97	4.23	20.1	2.3	7	122	<0.1	0.4	0.2	0.3	135	0.277	15	29	0.28	193	0.004	6	0.93	0.017	0.35	<0.1	0.34	5.3	0.2	6.9	4	3.3	0.3	WH11001422				
1233797	390399	7032318	1701	20.8	126.7	21.6	574	1.3	101.6	57.4	586	3.56	17	8.7	2.7	48	48	3.4	3.4	0.3	135	0.277	15	29	0.28	193	0.004	6	0.93	0.017	0.35	<0.1	0.34	5.3	0.2	6.9	4	3.3	0.3	WH11001422				
1233798	390405	7032428	1694	3.6	125.3	29.1	279	1.3	145.1	27.7	596	5.31	12.9	3.5	19.9	16.8	5.1	10	0.4	0.2	0.4	0.06	0.031	12	12	0.2	53	0.53	829	0.012	5	1.07	0.004	0.2	<0.1	0.5	5.1	2	2	<0.2	WH11001422			
1233799	390360	7032546	1657	9.6	86.3	19.1	42	1.3	33	49.6	4.5	736	2.4	4.5	3	105	7.4	5.4	3.3	0.2	0.21	0.099	9	9	0.05	468	0.001	2	0.42	0.006	0.09	<0.1	0.44	2.9	0.3	0.2	2	8.7	<0.2	WH11001422				
1233800	390295	7032559	1611	12.2	100.5	16	276	1.7	49.6	1.7	776	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	49.6	1.7	<0.2	WH11001422		
1233801	392717	7028610	1542	28.9	221.7	24.3	807	1.6	77.6	10.4	195	4.69	33.5	10.1	1.9	28	4.3	18.4	0.1	260	0.71	0.29	27	27	0.71	435	0.005	6	1.22	0.007	0.23	<0.1	0.45	4.7	0.7	<0.05	4	3	<0.2	WH11001422				
1233802	392627	7028582	1534	12.8	79.6	21.2	265	1.1	58.2	14.6	772	1.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	<0.2	WH11001422		
1233803	392538	7028546	1533	11.6	115.2	14.9	318	0.2	54.7	10.7	784	2.85	17	6.9	1.8	28	1.6	1.6	5.6	0.2	114	0.75	0.431	24	26	0.42	428	0.005	8	1.48	0.003	0.33	<0.1	0.19	1.7	0.6	<0.05	4	2.5	<0.2	WH11001422			
1233804	392433	7028548	1527	21.5	307	28.9	414	0.4	65.4	8.3	318	4.22	17.3	29.9	0.8	18	0.7	8.5	0.3	150	0.32	0.358	13	36	0.18	225	0.005	4	1.03	0.003	0.15	0.1	0.11	1	0.3	<0.05	4	4.5	<0.2	WH11001422				
1233805	392335	7028535	1542	22.9	307.5	27.9	434	0.7	70.8	9.5	618	3.97	36.9	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	<0.2	WH11001422		
1233806	392241	7028543	1522	18	165.6	18.9	345	0.1	153.7	39.6	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	19.9	36.9	7543	7.65	<0.2	WH11001422		
1233807	392137	7028559	1598	2.9	77	18.9	165	0.7	29.3	12.6	308	2.9	8.7	10.7	3.2	16	1.5	1.7	0.1	65	0.32	0.136	37	37	0.32	571	0.007	9	1.87	0.004	0.25	<0.1	0.23	3.7	0.3	<0.05	5	1.1	<0.2	WH11001422				
1233808	392033	7028563	1625	3.3	83.1	22.7	706	0.1	77.8	20.1	474	4.28	14.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	<0.2	WH11001422			
1233809	391937	7028539	1649	8.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	68.6	0.2	125.8	23.9	<0.2	WH11001422
1233810	391843	7028589	1624	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	59.1	13.7	<0.2	WH11001422		
1233811	391752	7028637	1622	6.9	188.1	20.8	720	1.6	55.1	15.9	201	2.07	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	<0.2	WH11001422		
1233812	391689	7028686	1631	1.4	131.8	20.5	448	0.3	113.7	28.9	1039	7.78	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	<0.2	WH11001422			
1233813	391584	7028746	1643	2.1	46.6	20.6	69	0.9	21.5	30.4	57.3	569	11.62	76.3	562	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	<0.2	WH11001422		
1233814	391542	7028835	1627	13.2	445.7	38.4	767	0.5	303.4	57.3	569	11.62	76.3	562	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	<0.2	WH11001422		
1233815	391458	7029001	1610	20.2	128.2	22.1	507	1.1	64.9	12.7	744	2.94	20.5	5.6	2.1	22	2.8	9.1	0.2	90	0.55	0.277	26	17	0.22	326	0.005	5	0.93	0.002	0.22	<0.1	0.41	3.1	0.7	<0.05	3	1.9	<0.2	WH11001422				
1233816	391391	7029871	1632	5.7	171.3	39.2	229	<0.1	87.4	22.9	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	1221	22.7	<0.2	WH11001422		
1233817	391351	7029083	1632	15.1	282.5	23.5	484	0.1	85.8	17.5	1953	4.36	12.5	39	1.1	36	0.7	4.3	0.2	67	0.33	0.272	7	15	0.05	224	0.004	1	0.42	0.003	0.05	0.1	0.09	2.4	0.2	<0.05	6	5.3	<0.2	WH11001422				
1233818	391295	7030122	1650	8.2	71.6	30	279	1.6	62	19.9	1055	3.57	9.2	39	1.1	36	0.7	4.3	0.2	67	0.33	0.272	7	15	0.05	224	0.004	1	0.42	0.003	0.05	0.1	0.09	2.4	0.2	<0.05	6	5.3	<0.2	WH11001422				
1233819	391202	7032515	1681	25.5	174.9	21.5	465	0.6	63.7	8.3	177	2.76	14.7	14	0.2	19	2	6.5	0.3	120	0.11	0.142	21	22	0.14	443	0.002	3	0.85	0.008	0.18	<0.1	0.23	2.1	0.5	<0.05	6	8.5	<0.2	WH11001422				
1233820	391102	7032442	1710	13.3	164.6	35.9	265	1.8	55.5	11.9	802	4.99	14.7	15	190	2	7	6.5	0.3	120	0.11	0.142	21	22	0.14	443	0.002	3	0.85	0.008	0.18	<0.1	0.23	2.1	0.5	<0.05	6	8.5	<0.2	WH11001422				
1233821	391089	7032326	1691	8	102.2	22.4	275	2.1	43.4	13.2	757	3.92	10.8	16.3	3	34	2.2	2.7	0.2	69	0.63	0.206	32	19	0.71	591	0.004	4	1.18	0.004	0.18	<0.1	0.41	4.2	0.4	<0.05	4	1.8	<0.2	WH11001422				
1233822	391013	7032227	1674	6.4	43.8	15.5	16	1.3	5	0.1	3	0.96	21.1	2.7	2.5	78	<0.1	6.6	0.1	55	0.01	0.125	20	17	0.01	639	0.002	4	0.3	0.003	0.1	<0.1	1.28	1.8	0.5	0.19	2	5.3	<0.2	WH11001422				
1233823	391005	7032155	1696	0.6	14	3.9	5	0.2	1.8	0.2	6	0.75	57.8	5.5	0.9	17	<0.1	4.5	<0.1	7	<0.01	0.062	4	9	<0.01	97	<0.001	<1	0.14	<0.001	0.02	0.1	0.05	1.2	<0.1	0.05	<1	0.6	<0.2	WH11001422				
1233824	391002	7032085	1701	18.3	207.1	19.2																																						

Lab Tag Number	Sample UTM Coordinates			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 0.01	Hg ppm 0.01	Sc ppm 0.1	Ti ppm 0.1	S % 0.05	Ga ppm 1	Se ppm 0.5	Te ppm 0.2	Certificate of Analysis	
	Easting	Northing	Elev.																																						
1233832	396028	7031440	1668	5.5	81.9	28.2	297	0.3	54.9	16.9	1449	5.31	19.7	5	2	22	1	2.3	0.5	59	0.06	0.108	15	38	0.25	300	0.01	2	1.52	0.005	0.08	<0.1	0.07	2.9	0.2	0.07	6	2.7	<0.2	WHI11001422	
1233901	388110	7035396	1559	17.5	194.8	23.5	441	1.6	57.3	12.4	274	3.42	21.8	12.8	5	86	4.2	6.6	0.2	164	0.88	0.398	23	32	1.01	608	0.012	9	1.77	0.007	0.36	<0.1	0.31	4.9	0.4	<0.05	5	5.2	<0.2	WHI11001422	
1233902	388181	7035329	1588	6.6	88.2	25.4	198	0.7	40.5	13.9	418	3.59	16.9	8.6	2	5	40	1	2.7	0.2	82	0.53	0.21	23	27	1.07	387	0.01	4	1.72	0.007	0.17	0.1	0.15	3.6	0.3	<0.05	5	2.2	<0.2	WHI11001422
1233903	388241	7035529	1616	2.2	66	18.7	78	<0.1	21.6	13.9	579	2.86	8.7	5.4	1.9	15	0.2	1.2	0.3	70	0.12	0.172	22	30	1.09	333	0.006	6	2.18	0.004	0.18	<0.1	0.05	1.2	0.3	<0.05	7	0.9	<0.2	WHI11001422	
1233904	388327	7035180	1620	24.4	318.3	25.8	587	0.5	60.8	10.8	339	3.45	21.6	19.4	0.5	26	1.6	9.8	0.3	70	0.1	0.207	10	16	0.09	157	0.004	3	0.75	0.006	0.11	<0.1	0.19	1.1	0.5	<0.05	3	5.6	0.2	WHI11001422	
1233905	388410	7035136	1620	6.6	284.7	72.5	251	0.7	77.2	25	2005	5.73	20.8	16.9	1	11	0.8	5.7	0.4	72	0.05	0.132	10	44	0.19	227	0.007	1	0.93	0.011	0.06	0.1	0.14	4.1	0.2	0.06	3	1.9	0.3	WHI11001422	
1233906	388492	7035084	1640	3.6	49.7	26.9	108	<0.1	22.5	7	389	2.44	1.1	3.8	0.3	5	0.2	2.1	0.5	59	0.02	0.058	11	20	0.05	127	0.014	2	0.5	0.007	0.09	0.1	0.04	0.9	<0.1	<0.05	4	0.8	<0.2	WHI11001422	
1233907	388592	7035065	1641	6.1	124.2	44.1	211	0.5	48	30.5	2081	3.55	11.2	13.6	2.1	43	1.2	2.1	0.3	81	0.57	0.228	25	31	1.02	565	0.008	6	1.67	0.008	0.18	<0.1	0.14	4.1	0.3	<0.05	6	1.8	<0.2	WHI11001422	
1233908	388689	7035035	1652	11.6	124.1	32.3	266	3.4	44.6	16.4	517	3.44	13.8	18.9	1.6	59	3	3.9	0.2	115	1.04	0.232	24	29	1.49	789	0.007	10	1.91	0.008	0.27	<0.1	0.55	3.4	0.5	0.07	6	4.2	<0.2	WHI11001422	
1233909	388713	7034946	1689	6	67	22.6	185	0.4	28.1	12.7	475	2.78	9.9	7.6	0.9	29	1.8	1.8	0.2	122	0.66	0.199	16	31	1.36	548	0.006	11	1.81	0.005	0.29	<0.1	0.2	1.4	0.3	<0.05	6	2.4	<0.2	WHI11001422	
1233910	388737	7034866	1703	13.1	53.1	43.6	111	1.7	28	4.2	321	4.15	79.1	7.6	1.1	41	0.3	24	0.4	86	0.03	0.126	6	35	0.08	319	0.006	4	0.6	0.008	0.26	<0.1	0.38	1.2	0.5	0.48	4	7.7	<0.2	WHI11001422	
1233911	388757	7034750	1726	12.3	122.8	23.4	325	0.9	47.3	18.5	638	4.3	32.6	17.4	2.4	47	2.5	5.9	0.2	111	0.45	0.356	22	30	0.92	329	0.01	7	1.69	0.008	0.25	0.1	0.44	2.7	0.4	<0.05	5	3.3	<0.2	WHI11001422	
1233912	388774	7034653	1723	2.9	45.8	17.5	133	0.6	22.5	8.4	431	2.22	7.5	9.8	1.8	52	1.1	1.2	0.1	103	1.25	0.186	19	27	1.55	346	0.011	11	1.43	0.009	0.23	<0.1	0.17	3.4	0.3	0.1	5	1.5	<0.2	WHI11001422	
1233913	388822	7034560	1741	5.5	70.2	22	189	0.7	28	14	440	3.13	16.7	8.6	2.1	44	1.7	4.6	0.2	115	0.99	0.203	17	30	1.57	390	0.013	9	1.73	0.008	0.23	<0.1	0.18	2.9	0.4	0.09	6	3	<0.2	WHI11001422	
1233914	388871	7034473	1733	8	116.6	28.4	318	1	79	15.9	463	7.78	46.3	7.6	1.4	55	0.3	3.5	0.4	80	0.03	0.177	27	27	0.16	335	0.01	2	1.11	0.036	0.29	0.1	0.38	2	0.5	0.57	5	5.1	0.3	WHI11001422	
1233915	388928	7034387	1722	24	417	25.8	614	3.9	92.1	16.1	272	6.02	25.1	30.5	4.3	105	6.9	7	0.3	128	1.23	0.648	25	35	0.68	1569	0.005	9	1.88	0.006	0.36	<0.1	0.94	7.2	0.5	<0.05	5	11.7	0.3	WHI11001422	
1233916	388978	7034315	1718	3.1	313.3	43.3	446	0.4	214	47.3	4501	7.03	22.5	11.9	4	66	1.9	2.3	0.5	40	1.19	0.207	18	30	0.28	818	0.003	2	2.48	0.005	0.12	<0.1	0.2	10.8	0.2	<0.05	3	4.3	0.2	WHI11001422	
1233917	389019	7034230	1711	23.7	86.8	14	251	3.9	53.2	2.9	206	25.3	38.8	6.2	2	107	2	11.6	0.2	91	0.2	0.06	5	12	0.07	579	0.001	3	0.35	0.01	0.13	<0.1	0.97	1.7	0.6	0.28	2	6.7	<0.2	WHI11001422	
1233918	389100	7034118	1738	6.7	118.1	39.8	156	1.3	48.9	10.2	467	6.43	38.1	7.4	0.7	226	0.2	4.2	0.4	80	0.05	0.257	11	30	0.16	477	0.009	3	1.27	0.011	0.3	0.1	0.22	2.5	0.4	0.47	5	5.2	0.3	WHI11001422	
1233919	389128	7034051	1763	3.6	243.4	51.9	502	0.7	170.3	61.9	>10000	10.11	141	22.2	1.9	53	5.6	2.4	0.5	66	0.45	0.172	11	32	0.23	1609	0.006	2	0.88	0.006	0.09	<0.1	0.39	11.9	0.2	<0.05	3	2.3	0.3	WHI11001422	
1233920	389174	7033962	1763	41.8	229.3	49	337	2.4	61.7	29.9	503	5.88	49.2	17.5	7.2	106	3.9	9.1	0.3	156	0.52	0.303	28	31	0.89	271	0.011	10	1.62	0.053	0.45	<0.1	1.93	5	0.6	0.53	6	6.9	<0.2	WHI11001422	
1233921	389197	7033870	1775	11	155.6	158.6	232	2	90.4	24.3	3186	5.85	65.1	23.9	2.8	66	0.8	3.4	0.5	67	0.08	0.138	11	64	0.18	1003	0.008	5	0.92	0.024	0.39	0.1	1.42	6.7	0.6	0.72	5	9.5	0.3	WHI11001422	
1233922	389239	7033777	1757	14	168.8	24.7	367	1.6	63.5	16.5	943	4.76	64	16.3	1.2	74	2.2	4.5	0.3	110	0.78	0.373	7	27	0.39	869	0.003	4	1.32	0.003	0.18	<0.1	0.65	4.4	0.2	0.05	4	4.1	<0.2	WHI11001422	
1233923	389314	7033709	1782	5	99.2	27	144	0.3	35.9	13.4	856	4.3	33.2	5.7	1.2	31	0.5	2.7	0.4	70	0.04	0.15	14	45	0.22	504	0.008	4	1.55	0.004	0.13	<0.1	0.31	1.9	0.2	0.12	7	1.8	<0.2	WHI11001422	
1233924	389379	7033658	1778	4.7	201.1	37.6	365	0.3	135.6	43.6	5300	5.7	156.8	10	0.9	20	0.8	3.7	0.6	68	0.04	0.123	8	26	0.11	310	0.01	2	1.05	0.003	0.08	0.1	0.15	4.1	0.2	0.06	5	2.4	<0.2	WHI11001422	
1233925	389458	7033574	1757	3.4	255.7	40.1	631	0.3	167.6	57.4	9560	6.37	109.1	14.3	2.3	26	3.6	3.3	0.5	56	0.03	0.145	10	29	0.15	412	0.005	3	1.74	0.004	0.09	<0.1	0.12	7	0.3	<0.05	4	2.1	<0.2	WHI11001422	
1233926	389534	7033511	1705	20	180.5	8.3	519	1.7	56.4	2.7	136	1.88	25.1	2	2.8	48	15.6	8.7	0.1	81	0.21	0.055	10	6	0.11	526	0.002	1	0.64	0.003	0.09	<0.1	1.13	2.9	0.6	<0.05	1	1.9	<0.2	WHI11001422	
1233927	389562	7033443	1686	14.4	164.8	30.9	364	3.7	79.6	20.2	766	7.07	35	20.1	4.1	46	3.6	6	0.2	68	0.69	0.394	24	18	0.34	596	0.003	10	1.23	0.003	0.28	<0.1	0.83	9.3	0.5	<0.05	3	8.7	<0.2	WHI11001422	
1233928	389660	7033369	1650	6	35.9	15.7	70	0.6	16.9	3	206	2.89	26.5	7.6	1.1	21	0.1	1.9	0.3	35	0.04	0.084	6	12	0.06	306	0.004	4	0.6	0.01	0.09	<0.1	0.23	0.8	0.2	0.13	2	3.8	<0.2	WHI11001422	
1233929	389738	7033293	1635	5.8	92.7	27.6	163	0.2	39.6	16.8	1059	4.07	15.8	5.2	0.4	18	0.3	2.5	0.4	74	0.05	0.133	10	28	0.16	206	0.008	2	0.93	0.005	0.09	<0.1	0.06	0.5	0.2	0.07	5	2.4	<0.2	WHI11001422	
1233930	389809	7033240	1616	6.1	74	22.6	142	0.4	29.5	11.7	704	4.68	25.9	6.6	0.4	50	0.3	2.1	0.4	55	0.03	0.147	12	22	0.2	15	353	0.01	2	1.08	0.031	0.15	<0.1	0.12	1.2	0.2	0.28	5	2.8	<0.2	WHI11001422
1233931	389895	7033166	1625	8	60	15.3	77	1.8	18.7	3.6	465	2.35	42.5	7	1.2	51	1	4.7	0.2	63	0.02	0.088	7	16	0.03	298	0.002	2	0.4	0.017	0.17	<0.1	0.86	1.6	0.3	0.41	2	4.6	<0.2	WHI11001422	
1233932	389967	7033099	1664	5.6	250.8	45.8	258	1.3	85.1	13.3	1086	9.08	226.3	18.7	4.1	213	1.1	11.5	0.5</																						

Table 4: Emerald Property - Soil Sample Results

4 of 4

Lab Tag Number	Sample UTM Coordinates			Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Ca ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Se ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Certificate of Analysis
	Eastings	Northing	Elev.																																					
1233943	390678	7033634	1608	14.9	151.3	23.2	315	1	50.7	13.8	2010	2.65	21.1	10.2	0.2	34	2.2	4.5	0.3	70	0.37	0.275	10	17	0.11	522	0.002	3	0.76	0.004	0.1	<0.1	0.18	0.3	0.3	0.07	3	5.2	0.2	WHI11001422
1233944	390695	7033738	1570	5.7	40.2	13.4	38	1.2	9.7	0.9	83	1.41	17.7	8	0.5	51	0.3	2.2	0.2	77	0.02	0.094	7	21	0.03	559	0.002	2	0.55	0.011	0.12	0.1	0.64	0.7	0.3	0.2	2	3.7	<0.2	WHI11001422
1233945	390719	7033837	1607	7.8	95.1	21.1	201	0.3	31.9	11.7	944	3.48	13.4	7.2	0.4	17	0.8	2.8	0.3	66	0.1	0.215	10	25	0.2	271	0.005	7	1.13	0.004	0.12	<0.1	0.11	0.6	0.2	0.06	4	2.8	<0.2	WHI11001422
1233946	394885	7030165	1493	2.8	46.1	26.5	85	0.2	16.2	10	740	2.88	10.3	3.2	0.2	11	0.2	1.7	0.3	80	0.04	0.113	12	19	0.3	129	0.011	1	1.01	0.007	0.09	0.1	0.04	0.8	0.1	<0.05	6	0.9	<0.2	WHI11001422
1233947	394974	7030208	1466	15.6	103.3	15.5	318	0.3	38.5	5.9	237	2.15	12.2	4.9	0.2	29	1.7	5	0.2	66	0.32	0.234	11	17	0.2	231	0.005	2	0.95	0.009	0.11	<0.1	0.14	0.5	0.3	<0.05	3	5.9	<0.2	WHI11001422
1233948	395065	7030240	1488	7.8	58.9	22.3	200	0.2	27	9.1	433	4.05	16.3	4.5	1	18	1.4	3.3	0.2	101	0.14	0.393	13	29	0.58	257	0.011	2	1.64	0.003	0.14	<0.1	0.08	1.1	0.2	<0.05	6	4.4	<0.2	WHI11001422
1233949	395140	7030290	1513	11.7	61.5	27.3	221	1.7	43	6.3	123	3.57	33.1	3	0.6	64	0.8	4.2	0.3	82	0.04	0.225	20	30	0.04	385	0.006	2	0.92	0.025	0.19	0.1	0.62	0.7	0.3	0.38	4	8.7	<0.2	WHI11001422
1233950	395201	7030377	1520	8.6	90.9	24.2	221	0.3	31.5	14.1	444	3.42	14.2	7.6	0.9	27	2	3.5	0.3	132	0.17	0.181	17	29	1.15	253	0.01	4	1.85	0.006	0.19	<0.1	0.06	1.4	0.3	<0.05	7	2.8	<0.2	WHI11001422
1233951	395259	7030452	1570	8.8	70.1	21.2	274	0.2	28.4	6.3	261	2.85	11.7	4	0.4	25	3.2	3.9	0.3	119	0.21	0.235	15	30	0.51	397	0.005	5	1.18	0.004	0.2	<0.1	0.06	0.6	0.2	<0.05	6	3.5	<0.2	WHI11001422
1233952	395317	7030536	1602	13.2	88.8	20.8	318	1	54.6	12.1	521	4.82	30	7.4	1.8	46	1.1	6.7	0.2	77	0.06	0.124	19	24	0.31	405	0.008	2	1.39	0.009	0.13	0.1	0.09	1.9	0.4	0.13	4	8.7	<0.2	WHI11001422
1233953	395340	7030633	1634	4.3	85.5	17.4	142	0.9	27	9.9	319	2.52	6.2	5.2	1.4	35	1.5	2.2	0.2	84	0.79	0.187	24	27	1.26	538	0.005	4	1.69	0.004	0.14	<0.1	0.17	1.7	0.2	<0.05	6	2.2	<0.2	WHI11001422
1233954	395368	7030726	1671	27.3	206.7	24.6	979	2.2	84.6	15.5	395	3.37	22.7	9.6	1.1	65	6.6	11.4	0.2	245	0.76	0.341	23	42	1.53	299	0.006	8	1.97	0.009	0.25	<0.1	0.52	1.8	0.4	<0.05	7	5.8	<0.2	WHI11001422
1233955	395248	7030806	1660	11.1	149.6	22.6	413	1.9	54	12.5	255	3.68	15.5	17	1.5	50	2.9	5.2	0.2	151	0.64	0.302	28	32	1.67	316	0.006	7	2.04	0.004	0.22	<0.1	0.38	2.7	0.3	<0.05	6	5.2	<0.2	WHI11001422
1233956	395148	7030799	1622	7.8	111.1	40.1	343	0.2	44	22.9	1073	4.54	16.1	15.3	0.8	25	2.4	4.3	0.2	172	0.28	0.246	13	39	1.96	266	0.006	4	2.47	0.004	0.15	<0.1	0.12	1	0.4	<0.05	8	5.5	<0.2	WHI11001422
1233957	395344	7030830	1697	11	180.1	17.5	294	2	57.7	20.4	372	4.34	8.3	10.1	3.7	32	2.5	3.1	0.2	107	0.42	0.197	27	33	2.4	490	0.008	9	2.63	0.004	0.29	<0.1	0.25	6.9	0.3	<0.05	7	4.4	<0.2	WHI11001422
1233958	395445	7030848	1690	34.3	352.2	26.5	787	3.7	114.7	22	806	4.35	22.4	27.5	3.7	106	9.6	9.6	0.2	160	1.46	0.53	25	28	0.82	414	0.007	10	1.27	0.007	0.33	<0.1	0.85	5.7	0.5	<0.05	4	10.4	0.3	WHI11001422
1233959	395565	7030865	1686	4.4	70.5	17.7	107	0.8	40.7	7.8	1168	2.69	25.1	14.2	1.5	81	0.4	2	0.3	28	0.04	0.093	21	19	0.08	518	0.004	2	0.71	0.028	0.15	<0.1	0.23	1.7	0.3	0.3	3	4	<0.2	WHI11001422
1233960	395640	7030881	1714	2.8	100.1	17.3	201	<0.1	40.3	15.8	1116	3.42	11.3	2.2	0.3	12	0.3	1.6	0.3	47	0.03	0.067	11	19	0.12	93	0.014	2	0.73	0.009	0.05	0.1	0.04	1.5	0.1	<0.05	4	1.7	<0.2	WHI11001422
1233961	395734	7030908	1721	4.9	68.6	19.2	156	0.1	31.4	8.9	637	3.54	15.7	3.9	0.2	19	0.4	2.2	0.4	74	0.04	0.081	13	26	0.16	139	0.012	2	0.97	0.004	0.06	0.2	0.07	1.1	0.2	<0.05	6	2.1	<0.2	WHI11001422
1233962	395812	7030952	1689	3.7	87.8	32.4	105	0.2	25.4	20.1	1553	3.86	10.4	5.6	0.6	17	1.2	2.4	0.3	97	0.09	0.253	16	35	0.63	341	0.006	2	1.77	0.004	0.1	<0.1	0.08	0.8	0.1	0.1	8	1.8	<0.2	WHI11001422
1233963	395871	7031031	1664	30.1	178.7	19.2	534	0.2	58.2	7.4	433	2.51	16	7.2	0.1	24	1.7	8.9	0.2	102	0.25	0.234	8	15	0.09	285	0.002	5	0.56	0.003	0.15	<0.1	0.12	0.5	0.4	<0.05	3	13	0.3	WHI11001422
1234151	391239	7030247	1582	22.9	117.1	16.9	795	6.9	180.5	7.2	96	2.3	33.8	5	2.2	105	7.8	9.1	0.2	266	0.65	0.202	25	68	0.06	2055	0.003	6	1.23	0.006	0.07	0.2	1.24	4.6	1.1	0.09	3	20.1	<0.2	WHI11001422
1234152	390872	7029589	1601	5.2	104.4	22.2	332	0.6	96.7	20.3	510	4.67	29	14.9	3.5	5	0.7	4.2	0.4	44	0.02	0.062	15	15	0.24	364	0.005	3	1.13	0.002	0.14	<0.1	0.18	5.3	0.2	<0.05	3	1.7	<0.2	WHI11001422
1234153	390935	7029476	1612	4.9	23.9	12.9	151	0.7	24.4	5.8	200	2.46	12.5	2.3	1.5	18	2.2	3.6	<0.1	46	0.35	0.182	21	8	0.08	262	0.003	4	0.67	0.004	0.08	<0.1	0.16	1.4	0.4	<0.05	1	1.9	<0.2	WHI11001422

Table 5: Emerald Property - Rock Sample Descriptions



Property:	Emerald
Project Geologist:	Edward Dashwood
GPS Datum & Zone:	NAD 83 / Zone 9N
Lab:	Acme Labs

Lab Tag Number	Quartz Mining Claim	Sample Date	Rock Sampler	Sample Source	Sample UTM Coordinates			Description
					Easting	Northing	Elev.	
1234001	EM-5	26-Aug-2011	IY	outcrop	387253	7032327	1606	Outcrop. Rusty shale. Rep sample. NVS. Bedding: 290°/21°S
1234002	EM-5	26-Aug-2011	IY	outcrop	387217	7032272	1581	Outcrop. Shale and chert. Rusty with small sulphides in the chert. Pyrite? Grey silver colour. Bedding: 290°, can't see dip. OC all broken up.
1234003	EM-1	26-Aug-2011	IY	outcrop	387304	7032185	1581	Outcrop. Qtz with shale (conglomerate?) Rusty and limonite. NVS. Fractured and oxidized.
1234004	EM-1	26-Aug-2011	IY	outcrop	387498	7031882	1593	Outcrop. Siltstone with sulphides. Two 18inch wide veins running through shale. Bedding: 290°/
1234005	EM-2	26-Aug-2011	IY	outcrop	387575	7031803	1638	Outcrop. Chert with rusty fractures and sulphides. OC all broken up.
1234006	EM-2	26-Aug-2011	IY	subcrop	387644	7031741	1666	Subcrop/float. Qtz vein in shale. Rusty 1.5inches wide. NVS. Chert on back of shale.
1234007	EM-23	26-Aug-2011	IY	outcrop	388274	7031451	1644	Outcrop. Siltstone with sulphides. Possibly two types of sulphides? Pyrite, small and all throughout the OC. Rusty on outside of most rocks.
1234008	EM-23	26-Aug-2011	IY	outcrop	388375	7031443	1679	Outcrop. Qtz veins through shale 1 to 5inches wide. Rusty fractures. VS. Silvery colour, long metallic min. Some black chert with rust on contact.
1234009	EM-20	26-Aug-2011	IY	outcrop	388685	7031021	1651	Outcrop. Re silicified sandstone or qtzite? NVS however rocks in OC are very rusty on the outside. Rep sample.
1234010	EM-20	26-Aug-2011	IY	outcrop	388974	7030931	1639	Outcrop. Silicified sandstone. NVS but very rusty OC.
1234011	EM-20	27-Aug-2011	IY	subcrop	389036	7030969	1624	Subcrop/Float. Black chert with small qtz veins. Lots of veining in all directions. Little rust. NVS. Some yellow sulphur staining.
1234012	EM-43	27-Aug-2011	IY	N/A	389055	7031037	1589	Siltstone or sandstone. Rusty on outside. Very small sulphides inside. Visible with lens only.
1234013	EM-43	27-Aug-2011	IY	subcrop	389101	7031075	1604	Sub/Float. Same sedimentary sandstone or siltstone. Not as rusty on outside of rocks however VS. Pyrite. Perhaps Chalco?. Small qtz veining cross cutting rock.
1234014	EM-43	27-Aug-2011	IY	outcrop	389260	7031131	1642	Outcrop. Small vein of qtz and chert breccia. Diss sulphides (pyr).
1234015	EM-44	27-Aug-2011	IY	float	389515	7031326	1652	Sub/Float. Chert with qtz veining. Vugs in the qtz. Rusty sections. NVS but has yellow sulphur staining.
1234016	EM-44	27-Aug-2011	IY	float	389566	7031360	1642	Float. Qtz float. Rusty and limonite. Small VS in rusty vugs. Rusty on all fracts.
1234017	EM-46	27-Aug-2011	IY	outcrop	389903	7031465	1635	Outcrop. Qtz veining in a rusty altered sed sandstone with some limonite. Classes of chert, very ox. Some iridescent staining on qtz.
1234018	EM-71	27-Aug-2011	IY	outcrop	390051	7031540	1690	Outcrop. Layered grey chert. Small qtz veins. Rusty but NVS.

Table 5: Emerald Property - Rock Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Rock Sampler	Sample Source	Sample UTM Coordinates			Description
					Easting	Northing	Elev.	
1234019	EM-71	27-Aug-2011	IY	outcrop	390137	7031607	1704	Outcrop. Grey chert with rust on fractures. White staining on outside of chert outcrop. NVS. Bedding: 285°/ 15°S. 24 inches wide, several veins in the area.
1234020	EM-71	27-Aug-2011	IY	outcrop	390146	7031619	1700	Outcrop. Stockwork qtz veining in chert and siltstone. Rusty. NVS.
1234021	EM-73	27-Aug-2011	IY	outcrop	390326	7032041	1722	Outcrop. Qtz vein outcrop with rust and limonite on one side. Black mineral crystal on the other side. Black mineral very soft. Qtz crystals and limonite on other side. Small qtz veins 2-3 inches wide. No visible strike.
1234022	EM-73	27-Aug-2011	IY	float	390358	7032134	1701	Float. Chert, qtz and rust with a white mineral in crystal form.
1234023	EM-73	27-Aug-2011	IY	float	390362	7032141	1707	Sub/Float. Black chert with rusty fractures. Sulphides. Pyrite in the chert.
1234024	EM-137	28-Aug-2011	IY	outcrop	392764	7028618	1531	Outcrop. Grey chert with rusty fractures. NVS. Rep sample.
1234025	EM-112	28-Aug-2011	IY	outcrop	392623	7028553	1533	Outcrop. Small qtz vein in the black chert. Rusty on contact, but NVS. Qtz vein 2 inches wide.
1234026	EM-112	28-Aug-2011	IY	outcrop	392469	7028545	1527	Rusty black chert with small qtz veins. Large OC. 15m wide. OC all broken at surface.
1234027	EM-112	28-Aug-2011	IY	outcrop	392287	7028535	1551	Outcrop. More black chert. NVS very very rusty throughout OC.
1234028	EM-111	28-Aug-2011	IY	float	392061	7028565	1617	Float. Shale with rusty outer sections, small sulphides. Blebs or streaks of pyrite? Float but close to ridge top.
1234029	EM-111	28-Aug-2011	IY	float	391859	7028592	1625	Sub/Float. Limestone with qtz stringers. Small veins in no particular orientation. Limestone dark black. OC strikes 290° along ridgetop.
1234030	EM-86	28-Aug-2011	IY	outcrop	391735	7028654	1632	Outcrop. Grey chert with a rusty altered chert crumbling out of the middle. NVS. Bedding: 70°/ 35°S.
1234031	EM-86	28-Aug-2011	IY	float	391534	7028834	1623	Sub/Float. Qtz and chert. Very rusty.
1234032	EM-88	28-Aug-2011	IY	outcrop	391357	7029075	1631	Outcrop. Rusty dull grey chert. Ridgetop, large outcrop. NVS. OC broken at surface.
1234033	EM-88	28-Aug-2011	IY	outcrop	391343	7029092	1632	Outcrop. Rusty altered chert with small qtz veining. All directions. NVS.
1234034	EM-87	28-Aug-2011	IY	outcrop	391132	7029118	1580	Outcrop. Cherty shale, rusty in places. NVS. Rep sample.
1234035	EM-231	29-Aug-2011	IY	float	395924	7032579	1650	Sub/float. Grey and black chert, sulphides in both. Small, perhaps pyrite.
1234036	EM-231	29-Aug-2011	IY	float	395875	7032425	1705	Sub/float. Qtz vein float 3 inches thick. NVS. Rusty and ox on one side. Cant see where it comes from. Ridge top 20m away.
1234037	EM-231	29-Aug-2011	IY	outcrop	395874	7032409	1711	Outcrop. Qtz vein in grey chert. Possible small sulphide in the rust of the qtz 2 inches wide. Bedding: 294°/40° SW.
1234038	EM-229	29-Aug-2011	IY	outcrop	395801	7032171	1641	Outcrop. Decomposing conglomerate, very rusty. Qtz, chert. Bedding: 350°/ 60° W whereas the other bedrock has bedding at 20°/ 20 W dip.
1234039	EM-230	29-Aug-2011	IY	outcrop	396071	7032083	1701	Outcrop. Cherty shale. Rusty and fractured. Yellow sulphur staining. Quite heavy.
1234040	EM-230	29-Aug-2011	IY	float	396177	7031893	1763	Sub/Float. Stockwork qtz veining. Float not too much of the same rock. No visible outcrop. NVS.
1234041	EM-228	29-Aug-2011	IY	outcrop	396165	7031753	1719	Outcrop. Rusty qtz OC on ridgetop. Possible sulphides. Ox. Bedding: 288°/ no dip. OC broken at surface.

Table 5: Emerald Property - Rock Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Rock Sampler	Sample Source	Sample UTM Coordinates			Description
					Easting	Northing	Elev.	
1234042	EM-228	29-Aug-2011	IY	outcrop	395983	7031474	1671	Outcrop. Large qtz outcrop. 5m wide. Bedding: approx 290°/no dip. Bull qtz, NVS. More rust on qtz on outer edge of OC.
1234043	EM-228	29-Aug-2011	IY	float	395991	7031424	1661	Float. Chert, shale, very rusty. NVS. Some qtz.
1234101	EM-49	26-Aug-2011	ED	outcrop	389264	7032613	1278	OC. Black silicified chert with oxides and rusting.
1234102	n/a	26-Aug-2011	ED	outcrop	388301	7035209	1620	OC. Silicified chert breccia. Ox and rusty. Ang clasts up to 2cm across. Bedding: 268°/70°S. Qtz runs parallel to bedding.
1234103	n/a	26-Aug-2011	ED	outcrop	388481	7035086	1637	OC. Grey silicified chert. Dominant rock so far. Bedding: 260°/40°S. Rusty on frags.
1234104	EM-36	26-Aug-2011	ED	outcrop	388633	7035015	1665	OC. Dark grey shale.
1234105	EM-36	26-Aug-2011	ED	outcrop	388737	7034899	1699	OC. Gossanous chert. D grey. Ox on frags.
1234106	EM-34	26-Aug-2011	ED	outcrop	388835	7034490	1719	OC. Dark to med grey chert with fine to very fine gr diss sulphides. Brassy and grey. <1%. Bedding: 260°/70°S.
1234107	EM-34	26-Aug-2011	ED	outcrop	388947	7034323	1727	OC. D grey siltstone/dirty limestone. HCl Fizz. Calcite stringers. Large (2cm across) blebs of pyrite, coarse grained. <1%.
1234108	EM-55	26-Aug-2011	ED	subcrop	389169	7033898	1767	SC. Silica rich chert with clusters of fine grained pyrite. Rusty and Ox exterior.
1234109	EM-55	27-Aug-2001	ED	outcrop	389316	7033718	1781	OC. Chert with angular black clasts, also incorporated light green fine grained cong/Sandstone. Rusty patches.
1234110	EM-53	27-Aug-2001	ED	outcrop	389428	7033605	1770	OC. Med to dark grey chert wit fine grain sulphides (mostly pyr) diss. Rusty. <1%. Bedding: 270°/75°S.
1234111	EM-54	27-Aug-2001	ED	subcrop	389601	7033395	1671	SC. Light and dark grey banded calcareous siltstone with shale like cleavage/bedding. Minor very fine gr sulphides <<1%. OC visible but unreachable.
1234112	EM-54	27-Aug-2001	ED	outcrop	389757	7033200	1665	OC. Gossanous dark grey shale/chert. V rusty.
1234113	EM-77	27-Aug-2001	ED	outcrop	390156	7033116	1692	OC. Very rusted chert. Breccia with ang clasts up to 1cm across. Qtz is translucent grey rusted throughout. Chert is d grey.
1234114	EM-75	27-Aug-2001	ED	subcrop	390297	7032464	1674	SC/flt. Below OC. Weathers bright orange. Grey fine grained siltstone/shale. Very fine grained diss sulphides <1%.
1234115	EM-75	27-Aug-2001	ED	outcrop	390298	7032373	1684	OC. D grey shale. Med grained diss sulphides (pyr) <1%.
1234116	EM-73	27-Aug-2001	ED	subcrop	390351	7032187	1706	SC. Black cherty shale with med gr pyrite <1%.
1234117	EM-121	28-Aug-2011	ED	outcrop	391876	7030615	1653	OC. Rusty black chert.
1234118	EM-121	28-Aug-2011	ED	subcrop	391790	7030581	1647	SC. Calcareous siltstone (grey) with clusters of fine gr sulphides (pyr) <1%. HCl Fizz.
1234119	EM-94	28-Aug-2011	ED	outcrop	391695	7030530	1639	OC. Jet black chert with v fine gr diss pyrite <1%.
1234120	EM-94	28-Aug-2011	ED	subcrop	391515	7030448	1629	SC. Silica rich grey siltstone. Calcite stringers. Fine gr diss sulphides. <1%, brassy and grey.
1234121	EM-91	28-Aug-2011	ED	outcrop	391420	7030402	1627	OC. D grey chert with stockwork qtz stringers. Very rusty, stringers up to 3mm wide.
1234122	EM-91	28-Aug-2011	ED	outcrop	391330	7030356	1594	OC. Gossanous, grey siltstone/chert with very fine gr diss sulphides <1%.

Table 5: Emerald Property - Rock Sample Descriptions

Lab Tag Number	Quartz Mining Claim	Sample Date	Rock Sampler	Sample Source	Sample UTM Coordinates			Description
					Easting	Northing	Elev.	
1234123	EM-91	28-Aug-2011	ED	outcrop	391076	7030021	1586	OC. D grey chert. Some rusty patches. Qtz stockwork stringer throughout up to 4mm wide.
1234124	EM-62	28-Aug-2011	ED	float	390820	7029777	1578	Flt from talus slope. D grey chert with stockwork qtz stringers. Rusty fractures.
1234125	EM-87	28-Aug-2011	ED	outcrop	391031	7029360	1621	OC. Rusty grey chert with stockwork qtz stringers in places.
1234126	EM-87	28-Aug-2011	ED	subcrop	391273	7029207	1649	SC. Coarse gr grey dirty limestone. HCl fizz. Rusty outside to orange. Silica present too.
1234127	EM-87	28-Aug-2011	ED	outcrop	391298	7029183	1644	OC. D grey chert with qtz stringers throughout up to 10mm. Very rusty around stringers.
1234128	EM198	29-Aug-2011	ED	subcrop	395335	7030610	1629	SC. Dark grey chert with rusty qtz stockwork stringers, up to 1cm wide. Some ox.
1234129	EM198	29-Aug-2011	ED	outcrop	395362	7030665	1644	OC. Grey silty limestone bedded with shales. HCl fizz. NVS.
1234130	EM-200	29-Aug-2011	ED	outcrop	395153	7031180	1579	OC. Grey chert. Rusty. Bedding: 280°/70°S.
1234131	EM-200	29-Aug-2011	ED	outcrop	395151	7031080	1607	OC. Grey shale, thinly bedded, NVS.
1234132	EM-200	29-Aug-2011	ED	outcrop	395144	7030931	1651	OC. D grey/black chert with qtz vnls and stringers. NVS.
1234133	EM-223	29-Aug-2011	ED	outcrop	395542	7030811	1709	OC. Dark grey chert with stockwork vnls and stringers up to 1cm in width. Very rusty on faces and some veins.
1234134	EM-223	29-Aug-2011	ED	outcrop	395652	7030856	1719	OC. Qtz vnls about 2 inches wide, NVS but rusty patches. WR is grey chert.
1234135	EM-225	29-Aug-2011	ED	outcrop	395814	7031001	1708	OC. Calcareous siltstone, grey with light and darker cross bedding structures. HCl fizz. Heavy.
1234136	EM-225	29-Aug-2011	ED	outcrop	395851	7031077	1700	OC. Rusty qtz material in D grey chert. Some stringers too.
1234137	EM-225	29-Aug-2011	ED	outcrop	395870	7031094	1695	OC. Same as sample 1234136 but with more rust and surrounded by red/brown soil.

Property:	Emerald
Project Geologist:	Edward Dashwood
GPS Datum & Zone:	NAD 83 / Zone 9N
Lab:	Acme Labs

Table 6: Emerald Property - Rock Sample Results

Sample ID	Sample UTM Coordinates			Wgt kg	Au ppb	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	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	Certificate of Analysis
	Eastings	Northing	Elev.																																							
1234001	387253	7032327	1606	0.76	1	0.4	63.7	9.6	30	0.05	10.5	4.4	86	1.99	2.3	1.6	4.7	18	0.05	0.3	0.2	11	0.08	0.019	7	13	0.26	527	0.004	10	0.8	0.009	0.29	0.05	0.06	2.9	0.05	0.28	3	0.25	0.1	WH11001575
1234002	387217	7032272	1581	1.49	1	0.8	10.8	7.1	10	0.05	5.4	1.9	31	1.59	2	0.8	0.3	15	0.05	0.3	0.05	2	0.005	0.004	0.5	16	0.02	371	5E-04	10	0.14	0.002	0.06	0.05	0.04	0.5	0.05	0.84	0.5	0.7	0.1	WH11001575
1234003	387304	7032185	1581	0.78	4	0.4	14.9	7.2	153	0.05	26.6	6.3	76	2.67	37.5	4	0.7	20	0.05	2	0.3	7	0.03	0.034	1	5	0.11	3996	0.001	10	0.59	0.002	0.18	0.05	0.06	2.5	0.05	0.11	2	0.8	0.1	WH11001575
1234004	387498	7031882	1593	1.04	2	0.2	10	7.9	20	0.05	10.7	3.2	959	6.27	0.5	3.3	2.2	249	0.1	0.6	0.05	8	8.72	0.02	5	10	4.78	65	0.007	10	0.31	0.011	0.15	0.05	0.11	2.4	0.05	1.93	1	2.7	0.1	WH11001575
1234005	387575	7031803	1638	0.62	1	1.2	36.5	8.2	66	0.05	12.7	3.8	79	2.96	12.2	0.6	1.5	10	0.05	0.9	0.2	21	0.03	0.021	2	14	0.37	206	0.003	10	0.85	0.002	0.07	0.05	0.07	1.5	0.05	0.94	2	0.7	0.1	WH11001575
1234006	387644	7031741	1666	0.81	1	0.2	16.5	1.2	25	0.05	6.2	1.8	277	1.04	3.7	0.5	0.5	6	0.05	0.1	0.05	3	0.06	0.012	2	9	0.07	134	5E-04	10	0.18	0.002	0.05	0.05	0.02	0.8	0.05	0.025	0.5	0.25	0.1	WH11001575
1234007	388274	7031451	1644	0.91	9	1.7	18	9.9	39	0.2	57.5	12.1	1278	2.1	5.8	1.1	5.9	597	0.1	0.6	0.05	44	22.4	0.234	51	99	0.94	456	0.004	10	0.61	0.015	0.04	0.05	0.14	4.3	0.05	0.61	2	0.8	0.1	WH11001575
1234008	388375	7031443	1679	1.58	1	0.2	8.1	0.3	10	0.05	3.7	1.6	229	0.27	2.6	1.1	0.1	33	0.1	0.1	0.05	1	0.76	0.005	0.5	11	0.005	34	5E-04	10	0.05	0.001	0.02	0.05	0.01	0.6	0.05	0.025	0.5	0.25	0.1	WH11001575
1234009	388685	7031021	1651	0.83	1	1.2	1.5	32.9	76	0.05	4.2	0.4	58	0.59	2.3	1.4	3	78	0.4	0.05	0.05	1	0.76	0.006	3	0.5	0.01	107	5E-04	10	0.28	0.025	0.21	0.05	0.02	0.4	0.1	0.025	0.5	0.9	0.1	WH11001575
1234010	388974	7030931	1639	0.65	1	0.1	6	1.3	18	0.05	5.1	2.3	635	2.11	0.8	1.2	1.5	472	0.05	0.2	0.05	7	15.02	0.02	3	7	8.38	2677	0.008	10	0.17	0.055	0.06	0.05	0.03	1.7	0.05	0.1	0.5	0.25	0.1	WH11001575
1234011	389036	7030969	1624	0.71	5	0.7	7.2	1.5	9	1.2	2.9	0.4	20	0.51	5.4	1	0.3	27	0.05	2.4	0.05	6	0.02	0.005	0.5	3	0.005	134	5E-04	10	0.07	0.04	0.05	0.05	0.16	0.3	0.05	0.23	0.5	2	0.1	WH11001575
1234012	389055	7031037	1589	0.83	1	0.05	8.8	2	21	0.05	8.8	3.4	818	3.52	0.25	2.4	2.2	399	0.05	0.05	0.05	11	12.23	0.02	5	8	6.86	936	0.002	10	0.23	0.016	0.13	0.05	0.03	2.2	0.05	0.25	0.5	0.25	0.1	WH11001575
1234013	389101	7031075	1604	0.9	1	2	9.9	3.1	29	0.2	24	3.8	756	1.97	7	0.25	2.4	602	0.3	1.2	0.05	13	30.72	0.058	23	6	6.39	116	0.001	10	0.16	0.005	0.09	0.05	0.17	1.9	0.2	1.44	0.5	0.8	0.1	WH11001575
1234014	389260	7031131	1642	0.65	8	1.9	15.2	5.8	46	0.2	26.6	5	1394	1.68	3.6	2.3	1.5	543	0.4	0.6	0.05	29	15.84	0.621	21	13	0.79	330	0.004	10	0.16	0.011	0.05	0.05	0.15	1.8	0.05	0.61	0.5	1.2	0.1	WH11001575
1234015	389515	7031326	1652	0.84	3	8.6	21.8	4.2	43	2.5	9.4	0.6	21	0.8	3	0.25	0.6	30	0.2	1.4	0.05	35	0.08	0.012	0.5	11	0.02	606	5E-04	10	0.18	0.004	0.1	0.05	0.19	1.4	0.05	0.21	0.5	7.6	0.1	WH11001575
1234016	389566	7031360	1642	1	1	0.5	3.7	0.3	48	0.05	10.4	1	54	0.57	0.5	0.25	0.1	6	0.3	0.05	0.05	2	0.14	0.004	0.5	9	0.02	46	5E-04	10	0.08	0.002	0.01	0.05	0.02	1	0.05	0.025	0.5	0.25	0.1	WH11001575
1234017	389903	7031465	1635	0.86	1	0.7	31.9	3.7	121	0.05	41.1	5.8	1358	1.46	11.2	1.5	0.7	13	1.9	0.4	0.05	6	0.04	0.025	4	5	0.05	3495	5E-04	10	0.41	0.004	0.06	0.05	0.03	2	0.05	0.07	0.5	0.25	0.1	WH11001575
1234018	390051	7031540	1690	0.78	1	0.2	29.1	3.5	35	0.05	19.5	4.7	201	1.12	1.2	0.6	0.8	12	0.4	0.05	0.05	6	0.06	0.018	4	16	0.08	292	0.001	10	0.23	0.004	0.08	0.05	0.02	1.4	0.05	0.025	0.5	0.25	0.1	WH11001575
1234019	390137	7031607	1704	0.92	1	0.1	14.5	0.9	22	0.05	11.1	3	168	1.32	2.3	0.25	0.5	10	0.05	0.2	0.05	7	0.07	0.006	1	6	0.23	148	5E-04	10	0.36	0.002	0.05	0.05	0.01	1.1	0.05	0.025	1	0.6	0.1	WH11001575
1234020	390146	7031619	1700	1	1	0.6	24.1	0.2	63	0.05	23.1	7.6	829	0.87	13.8	0.8	0.2	6	0.9	0.4	0.05	3	0.09	0.008	0.5	12	0.05	106	5E-04	10	0.21	0.004	0.04	0.05	0.01	1.6	0.05	0.025	0.5	0.25	0.1	WH11001575
1234021	390326	7032041	1722	0.94	1	0.2	15.8	2.1	33	0.05	37.5	5	2698	1.19	1.1	0.9	0.3	9	1.2	0.2	0.05	3	0.01	0.022	0.5	3	0.02	301	5E-04	10	0.31	0.004	0.03	0.05	0.03	1.2	0.05	0.025	0.5	0.25	0.1	WH11001575
1234022	390358	7032134	1701	0.39	4	2.1	23	3.7	48	0.05	4.7	0.7	18	0.87	3.6	2.3	0.4	52	0.05	0.3	0.05	6	0.06	0.052	1	4	0.06	1113	5E-04	10	0.32	0.001	0.09	0.05	0.05	1.1	0.05	0.07	0.5	3.5	0.1	WH11001575
1234023	390362	7032141	1707	1.05	8	0.8	22.8	3.3	29	1	16.7	1.9	54	0.93	2.2	2.1	0.3	45	0.1	0.4	0.05	6	0.03	0.019	0.5	4	0.06	322	5E-04	10	0.22	0.003	0.06	0.05	0.07	1	0.05	0.46	0.5	1.6	0.1	WH11001575
1234024	392764	7028618	1531	0.45	5	0.7	56.1	1.6	27	0.05	20.9	6	253	0.77	7.1	2.1	0.4	4	0.1	2	0.05	7	0.02	0.006	2	17	0.21	807	5E-04	10	0.28	0.001	0.04	0.05	0.03	1	0.05	0.025	1	0.25	0.1	WH11001575
1234025	392623	7028553	1533	0.74	1	0.1	8.9	0.7	7	0.05	6.8	1.4	134	0.49	0.25	2.2	0.2	2	0.05	0.2	0.05	3	0.005	0.001	0.5	4	0.12	83	5E-04	10	0.15	0.002	0.02	0.05	0.02	0.4	0.05	0.025	0.5	0.25	0.1	WH11001575
1234026	392469	7028545	1527	0.73	16	0.1	21.8	1.4	17	0.05	4.4	1	259	0.92	0.25	7	0.4	5	0.2	0.2	0.05	9	0.32	0.004	0.5	19	0.19	140	5E-04	10	0.26	0.004	0.04	0.05	0.03	1	0.05	0.025	0.5	0.25	0.1	WH11001575
1234027	392287	7028535	1551	0.71	5	0.2	12.3	0.9	26	0.05	2.5	0.5	264	0.59	1	2.7	0.4	20	0.5	0.6	0.05	3	0.82	0.003	1	3	0.37	156	5E-04	10	0.11	0.004	0.05	0.05	0.02	0.9	0.05	0.025	0.5	0.25	0.1	WH11001575
1234028	392061	7028565	1617	0.82	4	0.2	47.7	7.5	97	0.4	35.2	8.3	272	3.32	1.4	0.7	1.7	53	0.1	0.2	0.2	23	1.32																			

Table 6: Emerald Property - Rock Sample Results

2 of 2

1234108	389169	7033898	1767	1.31	1	0.8	20.5	2.2	31	0.05	16.9	1.8	49	1.03	2.6	0.25	0.4	2	1.2	0.3	0.1	6	0.07	0.005	0.5	4	0.18	220	SE-04	10	0.48	SE-04	0.08	0.05	0.09	1.4	0.05	0.22	0.5	0.25	0.1	WH11001575	
1234109	389316	7033718	1781	0.91	1	0.1	30.6	2.9	42	0.05	16	4	460	1.19	2.1	0.25	0.9	14	0.4	0.1	0.05	10	0.17	0.031	5	23	0.22	314	SE-04	10	0.49	SE-04	0.07	0.05	0.01	1.5	0.05	0.025	2	0.25	0.1	WH11001575	
1234110	389428	7033605	1770	0.69	1	0.3	29.8	2.2	39	0.05	21.2	3.6	174	0.68	3.1	1.9	0.5	6	0.7	0.2	0.05	4	0.03	0.008	2	15	0.08	137	SE-04	10	0.21	SE-04	0.05	0.05	0.02	0.6	0.05	0.19	0.5	0.25	0.1	WH11001575	
1234111	389601	7033395	1671	0.84	1	0.2	13.2	2	23	0.05	7.2	2.2	637	1.36	0.9	1	2.9	269	0.05	0.1	0.05	29	13.22	0.034	10	12	7.75	544	SE-04	10	1.19	SE-04	0.17	0.05	0.04	2.2	0.05	0.025	3	0.25	0.1	WH11001575	
1234112	389757	7033200	1665	0.9	19	0.9	53.8	4.5	47	0.2	14.4	3.6	85	1.85	2	8.4	3.1	13	0.4	0.5	0.2	18	0.05	0.027	6	17	0.38	362	SE-04	10	0.94	SE-04	0.22	0.05	0.16	2	0.05	0.26	3	1.3	0.1	WH11001575	
1234113	390156	7033116	1692	1.07	1	2.3	26.5	1.3	28	0.05	5.8	1.9	33	1.18	80.2	0.8	1	168	0.05	5.4	0.05	33	0.05	0.108	4	10	0.05	71	SE-04	10	0.39	SE-04	0.13	0.05	0.005	1	0.1	0.22	0.5	0.6	0.1	WH11001575	
1234114	390297	7032464	1674	0.84	1	0.05	5.9	1.3	16	0.05	7.7	2.1	1399	5.09	0.25	0.8	1.7	433	0.05	0.05	0.05	5	14.44	0.023	4	7	6.5	892	SE-04	10	0.29	SE-04	0.11	0.05	0.02	1.7	0.05	0.06	0.5	0.25	0.1	WH11001575	
1234115	390298	7032373	1684	0.75	1	0.4	11.5	6.5	14	0.1	5.2	1.3	36	1.09	2.7	0.25	0.4	20	0.05	0.4	0.05	7	0.03	0.008	0.5	3	0.04	481	SE-04	10	0.22	SE-04	0.12	0.05	0.05	0.8	0.05	0.42	0.5	0.8	0.1	WH11001575	
1234116	390351	7032187	1706	0.88	5	0.8	18.2	2.5	25	1.1	12	1.9	50	0.62	1.4	0.9	0.5	15	0.2	0.3	0.05	4	0.1	0.004	1	14	0.09	237	SE-04	10	0.1	SE-04	0.05	0.05	0.1	0.5	0.05	0.34	0.5	0.6	0.1	WH11001575	
1234117	391876	7030615	1653	0.68	1	0.3	52.8	2	21	0.05	3.7	1	97	0.37	0.7	1.3	0.5	71	0.2	0.2	0.05	4	0.65	0.01	3	3	0.03	138	SE-04	10	0.12	SE-04	0.04	0.05	0.02	0.5	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234118	391790	7030581	1647	1.03	5	0.7	5.4	3.7	28	0.05	7.7	2.3	345	1.7	2.2	0.25	1.8	359	0.2	0.9	0.05	16	13.88	0.071	20	7	3.45	378	SE-04	10	0.83	SE-04	0.07	0.05	0.04	1.8	0.05	0.39	2	1.5	0.1	WH11001575	
1234119	391695	7030530	1639	1.06	3	0.3	27.5	1.8	26	0.1	17.6	2.3	80	0.57	0.6	0.25	0.4	9	0.05	0.2	0.05	6	0.03	0.005	3	4	0.07	201	SE-04	10	0.14	SE-04	0.04	0.05	0.04	0.4	0.05	0.16	0.5	0.25	0.1	WH11001575	
1234120	391515	7030448	1629	0.96	3	0.7	19.9	4.7	28	0.05	11.5	6	6783	6.54	30.3	2.2	1.9	786	0.05	0.4	0.05	5	13.03	0.013	35	4	3.97	815	SE-04	10	0.46	SE-04	0.15	0.05	0.05	3.1	0.05	0.25	0.5	0.25	0.1	WH11001575	
1234121	391420	7030402	1627	0.78	1	0.1	11.6	2	16	0.05	10.5	3.2	278	0.82	0.25	0.25	0.4	10	0.05	0.05	0.05	3	0.25	0.008	2	2	0.09	143	SE-04	10	0.14	SE-04	0.02	0.05	0.005	1	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234122	391330	7030356	1594	0.6	1	0.1	45.3	2.7	26	0.05	7.5	2.6	75	1.31	0.5	0.25	4.2	16	0.05	0.05	0.2	9	0.12	0.013	11	9	0.27	332	SE-04	10	0.89	SE-04	0.09	0.1	0.05	0.005	2.4	0.05	0.08	3	0.25	0.1	WH11001575
1234123	391076	7030021	1586	0.66	1	0.2	19.3	1.1	18	0.05	9.2	1.5	78	0.59	8.6	0.25	0.2	3	0.05	0.4	0.05	3	0.01	0.004	2	2	0.01	101	SE-04	10	0.09	SE-04	0.04	0.05	0.02	0.5	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234124	390820	7029777	1578	0.75	3	0.05	20.4	1	17	0.05	8.3	2.4	343	0.6	2.7	0.6	0.7	9	0.05	0.3	0.05	3	0.05	0.008	0.5	10	0.02	162	SE-04	10	0.13	SE-04	0.05	0.05	0.02	1.9	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234125	391031	7029360	1621	0.7	1	0.2	22.3	1.1	19	0.05	10.3	2.9	309	0.74	6.1	0.25	0.2	2	0.05	0.5	0.05	5	0.02	0.004	0.5	3	0.01	85	SE-04	10	0.12	SE-04	0.04	0.05	0.03	1.2	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234126	391273	7029207	1649	0.91	1	0.1	10.1	2.8	17	0.05	12.4	5.3	3941	3.39	0.6	0.25	1.8	1304	0.05	0.2	0.05	5	14.71	0.011	15	4	5.78	2016	SE-04	10	0.24	SE-04	0.16	0.05	0.01	2.1	0.05	0.06	0.5	0.25	0.1	WH11001575	
1234127	391298	7029183	1644	0.74	14	0.4	33.7	2.2	23	0.05	7.9	1.6	34	0.68	11.6	5.5	0.3	10	0.05	0.8	0.05	3	0.01	0.008	2	2	0.005	456	SE-04	10	0.12	SE-04	0.05	0.1	0.08	0.5	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234128	395335	7030610	1629	0.68	1	0.3	12.8	1.1	17	0.05	8	2.7	283	0.64	0.25	2.2	0.3	10	0.05	0.05	0.05	5	0.08	0.005	2	5	0.19	74	SE-04	10	0.25	SE-04	0.01	0.05	0.005	0.6	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234129	395362	7030665	1644	0.81	2	0.05	8.6	1	16	0.05	3.4	1.7	259	0.7	0.25	1.2	1	539	0.05	0.1	0.05	20	25.29	0.031	11	7	1.82	262	SE-04	10	0.7	SE-04	0.03	0.05	0.01	1.1	0.05	0.025	2	0.25	0.1	WH11001575	
1234130	395153	7031180	1579	0.67	1	0.3	23.8	2.2	15	0.05	8.1	3	87	0.6	1	2	0.5	3	0.05	0.2	0.05	4	0.02	0.006	3	4	0.05	75	SE-04	10	0.17	SE-04	0.04	0.05	0.005	0.6	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234131	395151	7031080	1607	0.49	9	1	19.2	7.7	58	0.6	22	7.2	550	2.19	4.3	2.9	5.4	92	0.9	1	0.05	52	2.76	0.127	22	21	2.97	138	SE-04	10	1.58	SE-04	0.14	0.05	0.15	2.7	0.05	0.025	5	0.25	0.1	WH11001575	
1234132	395144	7030931	1651	0.67	1	0.2	14.6	1.9	10	0.05	6.2	2.8	153	0.55	0.9	1.8	0.3	3	0.05	0.05	0.05	3	0.03	0.003	2	3	0.07	76	SE-04	10	0.13	SE-04	0.02	0.2	0.005	0.3	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234133	395342	7030811	1709	0.82	2	0.05	25.2	3.3	18	0.05	11.7	3.2	99	0.81	0.8	3.1	0.9	6	0.05	0.2	0.05	5	0.04	0.009	7	14	0.09	101	SE-04	10	0.16	SE-04	0.04	0.05	0.005	0.7	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234134	395652	7030856	1719	0.65	1	0.2	4.5	0.2	18	0.05	4.7	1.2	102	0.46	1.9	1.3	0.05	2	0.05	0.05	0.05	1	0.005	0.005	0.5	1	0.005	21	SE-04	10	0.07	SE-04	0.01	0.2	0.005	0.5	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234135	395814	7031001	1708	0.98	1	0.3	10.5	2	45	0.1	8.7	2.8	705	1.69	1.3	1.2	1.8	258	0.3	0.2	0.05	36	10.4	0.084	17	10	5.82	234	SE-04	10	1.04	SE-04	0.03	0.05	0.005	1.4	0.05	0.025	3	0.25	0.1	WH11001575	
1234136	395851	7031077	1700	0.72	1	0.2	6.6	0.2	2	0.05	3.1	0.6	138	0.45	0.25	0.25	0.1	0.5	0.05	0.05	0.05	1	0.005	0.002	0.5	1	0.005	25	SE-04	10	0.1	SE-04	0.01	0.2	0.005	0.3	0.05	0.025	0.5	0.25	0.1	WH11001575	
1234137	395870	7031094	1695	1.06	6	0.3	25.8	5.9	12	0.1	20.8	1.5	62	1.33	3.1	4.4	1.4	16	0.05	0.6	0.2	18	0.05	0.036	9	16	0.2	69	SE-04	10	0.58	SE-04	0.04	0.05	0.02	1.6	0.05	0.025	2	0.25	0.1	WH11001575	

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). Soils, tills and sediments are 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. Rock samples area analyzed for gold using fire assay where a lead-collection fire-assay fusion is carried out for total sample decomposition and then the Ag dore bead is digested and followed by ICP-ES analysis.

Aqua regia leach/ICP-MS analysis

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

Fire Assay Fusion/ICP-ES

Element	Lower Limit	Upper Limit
Au	2 ppb	10 ppm

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

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



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

Submitted By: Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: September 07, 2011
Report Date: October 28, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI11001422.1

CLIENT JOB INFORMATION

Project: EM
Shipment ID: EM-1
P.O. Number
Number of Samples: 148

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

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

CC: Randy Sedore
Daithi Mac Gerailt
Don Stevens

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	147	Dry at 60C			WHI
SS80	147	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	147	Saving all or part of Soil Reject			WHI
1DX2	147	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Client: **Goldstrike Resources (Petro One Energy Co**
1300 - 111 West Georgia Street
Vancouver BC V6E 4M3 Canada

Project: EM
Report Date: October 28, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11001422.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1233751	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
1233752	Soil	9.2	111.4	61.7	118	<0.1	55.0	21.0	4660	7.94	48.6	3.7	6.5	83	0.5	10.6	0.8	30	0.41	0.146	23
1233753	Soil	13.4	93.0	32.2	297	0.5	45.3	13.8	143	5.16	25.4	21.7	3.3	29	0.3	3.9	0.4	65	0.04	0.093	10
1233754	Soil	21.6	151.2	32.6	1263	2.6	270.1	47.6	3536	8.74	459.9	40.4	2.1	71	7.7	49.4	0.4	90	0.22	0.153	9
1233755	Soil	22.6	108.8	23.6	548	2.0	77.6	8.9	180	4.37	59.7	4.3	1.4	109	10.2	16.1	0.3	260	0.21	0.267	17
1233756	Soil	7.5	97.8	30.1	139	0.7	30.9	7.4	117	3.92	43.2	12.1	1.8	224	0.3	8.8	0.4	87	0.03	0.134	14
1233757	Soil	28.5	100.7	20.1	397	0.7	238.3	59.3	4577	8.33	12.1	15.2	3.7	33	4.0	3.6	0.2	211	0.13	0.060	36
1233758	Soil	17.3	99.4	18.6	738	2.4	127.5	16.9	1561	5.28	63.8	8.2	3.9	62	12.0	8.7	0.2	70	0.37	0.152	24
1233759	Soil	6.2	117.8	16.5	316	0.8	57.0	11.9	888	3.98	13.4	15.9	6.2	72	1.2	2.6	0.2	54	0.52	0.209	36
1233760	Soil	4.6	114.2	13.7	69	1.1	17.3	1.8	37	2.07	26.4	3.4	2.5	154	1.2	2.3	0.1	58	0.04	0.121	16
1233761	Soil	4.3	55.4	20.5	151	0.2	42.8	13.9	1488	3.69	15.0	6.8	0.4	12	0.5	3.4	0.3	65	0.10	0.103	15
1233762	Soil	30.1	208.0	21.8	655	0.9	74.2	9.9	272	3.80	28.5	13.8	2.1	80	4.2	11.2	0.2	127	1.28	0.695	21
1233763	Soil	2.6	54.4	14.6	164	0.9	39.5	11.5	958	3.46	9.5	8.3	3.1	17	2.5	3.0	0.1	74	0.25	0.170	52
1233764	Soil	2.9	66.5	16.3	409	1.8	58.4	18.7	1069	3.15	8.6	11.6	3.1	30	1.8	2.2	0.1	119	0.45	0.140	30
1233765	Soil	8.4	84.1	21.5	270	0.2	56.9	17.4	694	4.03	23.5	7.7	1.6	38	1.2	2.9	0.2	109	0.32	0.310	23
1233766	Soil	7.6	77.6	14.1	191	0.7	31.3	7.1	273	2.74	13.4	6.8	0.8	17	2.3	3.1	0.2	81	0.21	0.185	17
1233767	Soil	19.7	181.9	17.3	493	2.2	68.5	9.4	304	2.95	19.3	16.8	2.3	69	2.6	6.9	0.2	94	1.15	0.467	21
1233768	Soil	24.5	171.2	17.9	527	0.8	57.0	6.7	178	2.56	17.1	8.6	0.8	66	3.4	8.2	0.2	158	0.94	0.511	15
1233769	Soil	3.4	73.4	25.4	171	0.5	32.4	7.7	435	2.96	9.4	6.9	5.1	35	0.6	1.6	0.4	72	0.28	0.165	52
1233770	Soil	11.1	115.1	23.4	333	0.8	89.7	24.7	660	4.88	30.0	15.1	3.2	50	1.0	5.1	0.3	59	0.04	0.123	12
1233771	Soil	42.1	106.9	14.6	813	1.8	115.4	10.1	298	2.78	30.0	7.0	3.4	106	10.2	16.4	0.2	206	0.60	0.132	7
1233772	Soil	16.8	154.7	24.5	854	7.4	129.0	11.7	391	3.36	30.8	6.3	0.7	185	7.6	8.7	0.3	219	0.53	0.371	15
1233773	Soil	22.0	258.9	13.3	1915	5.2	280.3	11.3	212	2.30	41.6	2.6	5.1	119	9.6	16.1	0.3	347	2.88	0.148	16
1233774	Soil	5.7	124.2	11.8	405	2.0	71.9	12.2	128	3.20	31.3	10.0	4.8	29	2.1	34.8	0.3	52	0.14	0.143	17
1233775	Soil	8.0	82.7	11.4	279	0.6	69.1	12.9	593	4.02	20.2	9.2	4.6	58	1.3	7.6	0.3	68	2.39	0.060	17
1233776	Soil	12.1	110.9	18.2	1390	1.2	148.4	17.9	314	3.75	65.2	12.1	4.5	39	3.2	18.3	0.3	118	0.68	0.099	22
1233777	Soil	5.0	95.0	14.6	302	0.8	61.4	13.6	189	3.67	8.3	12.6	2.0	27	0.6	2.6	0.3	42	0.03	0.113	7
1233778	Soil	7.4	84.4	30.4	182	0.4	80.3	15.5	1429	5.42	24.4	4.5	2.6	16	0.8	4.8	0.2	32	0.03	0.169	29
1233779	Soil	2.3	170.8	17.4	327	4.2	75.5	6.4	143	3.83	9.9	7.2	2.0	67	2.1	1.9	0.3	40	0.16	0.070	4
1233780	Soil	35.3	159.9	14.9	702	1.0	76.8	7.1	122	2.64	18.0	8.5	1.3	49	6.0	10.0	0.2	100	0.69	0.299	11



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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	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1233751	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1233752	Soil	17	0.27	600	0.004	3	1.30	0.007	0.21	<0.1	0.16	5.9	0.2	0.19	3	1.2	0.6
1233753	Soil	24	0.14	240	0.010	3	1.19	0.004	0.12	<0.1	0.28	2.3	0.3	<0.05	4	3.5	<0.2
1233754	Soil	16	0.05	2218	0.001	2	0.48	0.002	0.06	<0.1	1.03	4.6	0.7	<0.05	2	4.6	0.2
1233755	Soil	23	0.08	448	0.003	4	0.91	0.025	0.17	<0.1	1.34	1.8	0.6	0.37	3	11.0	<0.2
1233756	Soil	20	0.08	316	0.005	2	0.89	0.004	0.12	0.1	0.10	1.6	0.2	0.14	4	3.0	<0.2
1233757	Soil	28	0.35	1049	0.005	4	1.29	0.004	0.11	<0.1	0.32	8.2	0.4	<0.05	3	1.8	<0.2
1233758	Soil	19	0.11	527	0.001	4	0.64	0.017	0.14	<0.1	0.85	4.0	0.6	0.26	2	3.7	<0.2
1233759	Soil	15	0.09	1082	0.002	7	0.56	0.004	0.15	0.2	0.55	4.9	0.4	<0.05	2	0.9	<0.2
1233760	Soil	18	0.03	288	0.002	3	0.64	0.015	0.19	0.2	1.15	3.0	0.3	0.41	2	3.5	<0.2
1233761	Soil	29	0.19	547	0.006	2	1.11	0.003	0.06	0.1	0.08	1.3	0.2	0.05	4	1.3	<0.2
1233762	Soil	21	0.13	608	0.005	9	1.04	0.003	0.24	<0.1	0.49	2.6	0.5	<0.05	3	11.2	0.4
1233763	Soil	32	1.82	548	0.011	9	2.49	0.004	0.17	<0.1	0.20	3.7	0.2	<0.05	6	1.0	<0.2
1233764	Soil	30	1.29	1073	0.007	10	1.97	0.005	0.24	<0.1	0.25	4.4	0.2	<0.05	5	1.3	<0.2
1233765	Soil	33	0.70	408	0.009	8	1.78	0.005	0.20	<0.1	0.17	1.3	0.4	0.05	6	2.0	<0.2
1233766	Soil	20	0.49	612	0.003	5	1.24	0.003	0.15	<0.1	0.20	0.7	0.3	<0.05	4	1.6	<0.2
1233767	Soil	19	0.20	659	0.004	4	1.14	0.003	0.16	0.1	0.51	3.1	0.4	<0.05	3	5.8	0.2
1233768	Soil	24	0.15	537	0.004	9	1.01	0.004	0.21	0.1	0.38	1.2	0.4	<0.05	4	8.3	<0.2
1233769	Soil	22	0.26	442	0.004	8	0.92	0.002	0.17	<0.1	0.16	3.1	0.3	<0.05	3	1.8	<0.2
1233770	Soil	19	0.20	407	0.004	2	1.17	0.007	0.12	<0.1	0.19	3.5	0.2	0.16	3	2.7	<0.2
1233771	Soil	11	0.18	717	0.002	5	0.56	0.009	0.16	<0.1	0.58	3.3	0.7	0.21	2	6.4	<0.2
1233772	Soil	35	0.06	834	0.003	2	0.93	0.006	0.14	0.1	1.04	1.0	0.4	0.26	3	14.5	0.4
1233773	Soil	72	1.33	1190	0.003	8	0.24	0.005	0.08	<0.1	1.50	5.2	0.3	<0.05	2	11.2	<0.2
1233774	Soil	13	0.03	249	0.002	3	0.52	0.003	0.09	0.2	0.17	5.3	0.2	<0.05	<1	1.9	<0.2
1233775	Soil	14	1.22	744	0.002	4	0.25	0.006	0.06	<0.1	0.41	7.0	0.3	0.12	<1	6.0	<0.2
1233776	Soil	9	0.26	444	0.001	4	0.27	0.003	0.06	<0.1	0.90	5.3	0.5	0.10	<1	6.2	<0.2
1233777	Soil	11	0.05	209	0.002	6	0.58	0.004	0.13	<0.1	0.16	3.6	0.2	0.08	2	1.2	<0.2
1233778	Soil	8	0.06	228	0.002	3	0.71	0.002	0.09	<0.1	0.47	5.9	0.4	<0.05	1	1.8	<0.2
1233779	Soil	21	0.10	306	0.001	3	0.71	0.004	0.15	<0.1	0.92	6.5	0.1	0.22	2	5.1	<0.2
1233780	Soil	10	0.09	455	0.002	5	0.62	0.002	0.13	<0.1	0.24	2.3	0.4	<0.05	2	5.1	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001
1233781	Soil	14.5	136.5	27.3	323	1.7	76.7	33.9	845	4.61	14.7	11.1	5.0	57	1.3	4.7	0.2	66	0.06	0.077	17
1233782	Soil	5.3	67.7	23.3	133	0.8	24.7	5.8	101	3.96	13.3	14.2	1.5	92	0.3	3.0	0.3	61	0.03	0.105	10
1233783	Soil	8.0	81.6	21.5	268	0.4	43.9	7.2	123	4.29	11.7	16.0	0.6	87	0.7	2.1	0.3	43	0.04	0.204	10
1233784	Soil	6.0	89.1	23.8	354	0.2	68.2	12.0	333	4.73	23.0	4.6	2.3	51	0.8	2.6	0.4	42	0.02	0.069	9
1233785	Soil	10.2	104.2	25.9	346	0.5	67.0	15.5	930	5.03	28.5	4.6	2.9	90	1.8	3.7	0.3	57	0.08	0.152	13
1233786	Soil	7.1	53.0	18.7	162	0.2	21.3	4.7	150	2.39	19.2	3.2	0.3	18	0.3	3.6	0.3	69	0.02	0.087	8
1233787	Soil	29.2	261.7	23.8	585	2.5	73.6	9.0	455	2.71	23.2	15.8	3.7	100	10.2	7.8	0.2	194	1.02	0.508	23
1233788	Soil	14.0	73.8	20.5	274	2.2	78.2	12.0	107	7.84	244.6	23.4	2.1	31	1.5	50.9	0.3	121	0.07	0.148	3
1233789	Soil	8.6	142.3	15.4	294	0.5	47.6	7.4	1216	5.02	47.1	22.2	0.2	5	0.7	15.6	0.2	48	0.04	0.125	5
1233790	Soil	2.3	47.3	10.9	43	2.2	55.5	1.0	86	0.71	1.1	9.1	1.6	107	0.3	0.8	0.2	49	0.36	0.083	4
1233791	Soil	21.5	70.5	9.8	275	1.5	45.4	3.2	20	2.61	33.3	2.3	4.9	70	0.2	11.0	0.1	93	0.01	0.151	8
1233792	Soil	15.4	58.1	10.8	311	0.9	61.3	13.2	835	4.69	11.2	7.6	2.3	49	1.5	4.9	0.2	137	0.27	0.044	11
1233793	Soil	31.2	241.0	22.7	632	2.3	79.0	9.7	179	2.87	18.5	17.1	1.4	58	4.6	9.7	0.2	138	0.79	0.450	17
1233794	Soil	0.5	137.5	15.1	158	0.1	51.5	22.4	>10000	7.28	2.7	9.0	4.6	59	0.2	1.1	<0.1	62	0.75	0.298	45
1233795	Soil	20.8	126.7	21.6	574	1.3	101.6	21.4	586	3.56	17.0	8.7	2.7	48	3.4	7.6	0.3	135	0.11	0.082	10
1233796	Soil	6.1	93.9	35.4	100	0.5	48.9	10.9	97	4.23	20.1	2.3	7.0	122	<0.1	2.7	0.4	42	0.25	0.277	15
1233797	Soil	46.0	360.9	12.7	825	3.1	188.8	2.8	47	1.63	70.1	5.4	2.1	103	17.0	22.2	0.2	555	0.68	0.068	5
1233798	Soil	3.6	125.3	29.1	279	1.3	145.1	27.7	596	5.31	12.9	16.8	5.1	10	0.4	2.0	0.4	28	0.06	0.031	12
1233799	Soil	9.6	86.3	19.1	42	1.3	33.0	3.6	431	2.66	18.5	5.1	2.1	112	0.5	3.3	0.2	61	0.23	0.106	8
1233800	Soil	12.2	100.5	16.0	276	1.7	49.6	4.5	736	2.40	32.4	4.6	3.0	105	7.4	5.4	0.1	70	0.21	0.099	9
1233801	Soil	28.9	221.7	24.3	807	1.6	77.6	10.4	195	4.69	33.5	10.1	1.9	28	4.3	18.4	0.1	260	0.71	0.390	27
1233802	Soil	12.8	79.6	21.2	265	1.1	58.2	14.6	772	3.63	19.9	8.9	6.3	57	2.8	5.6	0.1	87	1.88	0.845	41
1233803	Soil	11.6	115.2	14.9	318	0.2	54.7	10.7	284	2.85	17.0	6.9	1.8	28	1.6	5.6	0.2	114	0.75	0.431	24
1233804	Soil	21.3	307.0	28.9	414	0.4	65.4	8.3	318	4.22	17.3	29.9	0.8	18	0.7	8.5	0.3	150	0.32	0.358	13
1233805	Soil	22.9	307.5	27.9	434	0.7	70.8	9.5	618	3.97	36.9	16.6	0.4	13	0.7	10.1	0.3	92	0.09	0.162	11
1233806	Soil	18.0	165.6	18.9	345	0.1	153.7	39.6	7543	7.65	446.1	20.1	1.7	13	0.6	22.2	0.3	55	0.04	0.059	10
1233807	Soil	2.9	77.0	18.9	165	0.7	29.3	12.6	308	2.90	8.7	10.7	3.2	16	1.5	1.7	0.1	65	0.32	0.136	37
1233808	Soil	3.3	83.1	22.7	206	0.1	77.8	20.1	474	4.28	14.8	6.6	0.7	12	0.3	2.2	0.2	36	0.03	0.071	8
1233809	Soil	8.2	223.9	68.6	199	0.2	125.8	25.5	1136	6.13	44.9	14.5	0.6	14	0.3	14.0	0.4	125	0.02	0.100	6
1233810	Soil	13.7	59.1	21.5	200	1.1	45.7	10.7	210	2.66	12.8	5.2	5.6	36	1.9	3.7	0.2	65	0.98	0.309	30



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1233781	Soil	22	0.26	492	0.005	3	1.55	0.004	0.18	<0.1	0.51	4.0	0.2	0.10	4	4.2	<0.2
1233782	Soil	18	0.07	294	0.005	2	1.09	0.006	0.11	<0.1	0.22	1.4	0.2	0.14	4	1.6	<0.2
1233783	Soil	23	0.07	326	0.004	2	0.96	0.011	0.12	<0.1	0.21	0.6	0.2	0.22	4	1.9	<0.2
1233784	Soil	13	0.13	265	0.006	2	1.00	0.004	0.12	0.1	0.06	2.6	0.2	0.12	3	1.8	<0.2
1233785	Soil	20	0.22	504	0.005	3	1.28	0.007	0.17	0.1	0.14	3.5	0.2	0.22	3	2.7	<0.2
1233786	Soil	13	0.07	685	0.005	3	0.59	0.004	0.11	<0.1	0.07	0.7	0.2	0.10	4	2.4	<0.2
1233787	Soil	24	0.38	958	0.004	8	1.26	0.003	0.21	<0.1	0.62	3.8	0.3	<0.05	3	7.5	<0.2
1233788	Soil	14	0.02	1349	0.001	1	0.33	0.001	0.05	<0.1	1.07	1.8	1.3	0.05	1	5.1	<0.2
1233789	Soil	13	0.03	98	0.002	2	0.26	0.001	0.03	<0.1	0.07	1.0	0.1	<0.05	2	1.4	<0.2
1233790	Soil	17	0.04	569	0.002	3	0.26	0.009	0.10	<0.1	0.33	0.9	0.1	0.17	1	3.2	<0.2
1233791	Soil	16	0.01	321	<0.001	1	0.24	0.002	0.07	<0.1	0.47	3.4	0.5	0.08	1	4.4	<0.2
1233792	Soil	17	0.25	644	0.006	2	0.97	0.007	0.09	<0.1	0.23	3.7	0.3	0.07	2	1.8	<0.2
1233793	Soil	19	0.14	550	0.002	8	0.87	0.005	0.19	<0.1	0.58	2.0	0.6	<0.05	3	12.3	0.4
1233794	Soil	63	0.47	3740	0.005	8	1.69	0.003	0.18	<0.1	0.12	12.4	<0.1	<0.05	5	<0.5	<0.2
1233795	Soil	15	0.25	735	0.004	3	0.95	0.003	0.21	<0.1	0.44	3.8	0.4	<0.05	3	5.6	<0.2
1233796	Soil	29	0.28	193	0.004	6	0.93	0.017	0.35	<0.1	0.34	5.3	0.2	0.69	4	3.3	0.3
1233797	Soil	26	0.16	522	0.002	3	0.41	0.002	0.09	0.1	1.66	2.7	0.9	0.15	2	9.7	0.2
1233798	Soil	20	0.53	829	0.012	5	1.07	0.004	0.20	<0.1	0.50	5.1	0.3	<0.05	4	2.0	<0.2
1233799	Soil	12	0.04	295	0.001	3	0.30	0.019	0.17	<0.1	0.66	2.2	0.3	0.50	1	2.0	<0.2
1233800	Soil	13	0.05	468	0.001	2	0.42	0.006	0.09	<0.1	0.44	2.9	0.3	0.20	2	8.7	<0.2
1233801	Soil	27	0.71	435	0.005	6	1.22	0.002	0.23	<0.1	0.45	4.7	0.7	<0.05	4	11.0	<0.2
1233802	Soil	25	0.36	655	0.005	10	2.17	0.004	0.35	<0.1	0.34	6.1	0.5	<0.05	4	3.0	<0.2
1233803	Soil	26	0.42	428	0.005	8	1.48	0.003	0.33	<0.1	0.19	1.7	0.6	<0.05	4	2.5	<0.2
1233804	Soil	36	0.18	225	0.005	4	1.03	0.003	0.15	0.1	0.11	1.0	0.3	<0.05	4	4.5	<0.2
1233805	Soil	20	0.10	217	0.004	3	0.72	0.003	0.12	<0.1	0.10	1.0	0.3	<0.05	3	5.4	<0.2
1233806	Soil	26	0.20	918	0.011	<1	1.31	0.002	0.04	0.2	0.08	5.4	0.3	<0.05	6	2.1	<0.2
1233807	Soil	27	1.16	571	0.007	9	1.87	0.004	0.25	<0.1	0.23	3.7	0.3	<0.05	5	1.1	<0.2
1233808	Soil	23	0.16	179	0.006	2	0.98	0.002	0.11	0.1	0.10	2.3	0.2	<0.05	3	1.9	<0.2
1233809	Soil	51	0.08	126	0.009	2	0.59	0.002	0.08	0.1	0.10	2.8	0.2	<0.05	6	2.9	0.2
1233810	Soil	18	0.70	589	0.005	10	1.37	0.004	0.41	<0.1	0.34	5.4	0.4	<0.05	4	4.2	<0.2



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1233811	Soil	6.9	188.1	20.8	220	1.6	55.1	15.9	201	3.72	8.8	19.3	5.3	16	1.3	2.0	0.3	34	0.42	0.122	16
1233812	Soil	1.4	131.8	20.5	448	0.3	113.7	28.9	1039	7.78	6.7	10.4	4.4	10	1.6	0.8	0.3	28	0.01	0.070	11
1233813	Soil	2.1	46.6	20.6	69	0.9	21.5	3.4	109	1.47	6.8	3.4	1.1	25	0.4	1.7	0.2	33	0.05	0.090	12
1233814	Soil	13.2	445.7	38.4	767	0.5	303.4	57.3	569	11.62	76.3	56.2	4.6	7	1.0	17.4	0.4	59	0.01	0.100	7
1233815	Soil	20.2	128.2	22.1	507	1.1	64.9	12.7	244	2.94	20.5	5.6	2.1	22	2.8	9.1	0.2	90	0.55	0.277	26
1233816	Soil	5.7	171.3	39.2	229	<0.1	87.4	22.7	1221	5.63	25.6	14.4	0.6	5	0.2	5.7	0.4	73	0.04	0.057	8
1233817	Soil	15.1	282.5	23.5	484	0.1	85.8	17.5	1953	4.36	12.5	39.0	1.1	36	0.7	4.3	0.2	67	0.33	0.272	7
1233818	Soil	8.2	71.6	30.0	279	1.6	62.0	19.9	1055	3.57	9.2	11.2	3.7	28	1.8	2.6	0.1	128	0.51	0.205	30
1233819	Soil	25.5	174.9	21.5	465	0.6	63.7	8.3	177	2.76	14.7	14.0	0.2	19	0.7	6.5	0.3	120	0.11	0.142	11
1233820	Soil	13.3	164.6	35.9	265	1.8	55.5	11.9	802	3.68	49.9	14.7	1.5	190	2.0	8.3	0.3	63	0.37	0.344	21
1233821	Soil	8.0	102.2	22.4	275	2.1	43.4	13.2	757	3.92	10.8	16.3	3.0	34	2.2	2.7	0.2	69	0.63	0.206	32
1233822	Soil	6.4	43.8	15.5	16	1.3	5.0	0.1	3	0.96	21.1	2.7	2.5	78	<0.1	6.6	0.1	55	0.01	0.125	20
1233823	Soil	0.6	14.0	3.9	5	0.2	1.8	0.2	6	0.75	57.8	5.5	0.9	17	<0.1	4.5	<0.1	7	<0.01	0.062	4
1233824	Soil	18.3	207.1	19.2	38	2.4	19.5	2.7	154	2.25	52.1	20.6	3.2	77	0.6	6.2	0.3	103	0.30	0.574	18
1233825	Soil	15.4	60.5	51.1	7	2.1	6.9	0.5	21	3.05	44.7	12.6	2.8	293	0.1	27.6	0.8	44	0.03	0.076	18
1233826	Soil	5.9	182.8	16.3	200	0.7	58.3	12.5	308	5.79	20.9	12.2	1.7	39	0.4	2.3	0.2	33	0.08	0.220	27
1233827	Soil	14.0	211.4	26.2	490	2.3	117.5	36.2	1509	7.45	17.5	16.2	3.0	57	3.6	4.0	0.3	67	1.21	0.297	32
1233828	Soil	7.5	120.1	27.3	411	2.0	69.3	17.0	869	3.51	31.5	10.1	3.8	30	5.8	6.7	0.2	87	0.40	0.219	25
1233829	Soil	6.6	91.2	44.7	264	1.4	57.1	11.2	838	5.78	24.5	11.6	6.5	339	1.5	3.7	0.5	38	0.45	0.172	20
1233830	Soil	3.5	145.5	23.4	243	0.1	54.6	15.1	618	5.78	37.8	4.8	1.0	59	0.6	1.3	0.3	92	0.04	0.240	15
1233831	Soil	8.4	120.7	17.3	242	0.4	39.9	8.8	398	3.61	14.4	24.1	0.5	39	0.8	3.0	0.3	72	0.06	0.166	11
1233832	Soil	5.5	81.9	28.2	297	0.3	54.9	16.9	1449	5.31	19.7	5.0	2.0	22	1.0	2.3	0.5	59	0.06	0.108	15
1233901	Soil	17.5	194.8	23.5	441	1.6	57.3	12.4	274	3.42	21.8	12.8	5.0	86	4.2	6.6	0.2	164	0.88	0.398	23
1233902	Soil	6.6	88.2	25.4	198	0.7	40.5	13.9	418	3.59	16.9	8.6	2.5	40	1.0	2.7	0.2	82	0.53	0.210	23
1233903	Soil	2.2	66.0	18.7	78	<0.1	21.6	13.9	579	2.86	8.7	5.4	1.9	15	0.2	1.2	0.3	70	0.12	0.172	22
1233904	Soil	24.4	318.3	25.8	587	0.5	60.8	10.8	339	3.45	21.6	19.4	0.5	26	1.6	9.8	0.3	70	0.10	0.207	10
1233905	Soil	6.6	284.9	72.5	251	0.7	77.2	25.0	2005	5.73	20.8	16.9	1.0	11	0.8	5.7	0.4	72	0.05	0.132	10
1233906	Soil	3.6	49.7	26.9	108	<0.1	22.5	7.0	389	2.44	11.0	3.8	0.3	5	0.2	2.1	0.5	59	0.02	0.058	11
1233907	Soil	6.1	124.2	44.1	211	0.5	48.0	30.5	2081	3.55	11.2	13.6	2.1	43	1.2	2.1	0.3	81	0.57	0.228	25
1233908	Soil	11.6	124.1	32.3	266	3.4	44.6	16.4	517	3.44	13.8	18.9	1.6	59	3.0	3.9	0.2	115	1.04	0.232	24



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1233811	Soil	14	0.42	335	0.002	4	1.12	0.002	0.25	<0.1	0.42	6.7	0.2	<0.05	3	4.3	<0.2
1233812	Soil	16	0.06	189	0.002	4	1.02	0.002	0.10	<0.1	0.12	8.6	0.1	<0.05	1	2.0	<0.2
1233813	Soil	20	0.02	443	0.003	2	0.35	0.002	0.12	<0.1	0.68	1.7	0.2	0.11	2	2.6	<0.2
1233814	Soil	32	0.09	224	0.002	2	1.18	0.001	0.08	2.5	0.38	8.9	0.2	<0.05	2	3.1	0.3
1233815	Soil	17	0.22	326	0.005	5	0.93	0.002	0.22	<0.1	0.41	3.1	0.7	<0.05	3	2.9	<0.2
1233816	Soil	32	0.14	116	0.014	1	0.82	0.003	0.05	0.1	0.09	2.4	0.2	<0.05	6	1.4	0.2
1233817	Soil	15	0.05	224	0.004	4	0.64	0.002	0.14	<0.1	0.15	2.6	0.3	<0.05	3	5.3	<0.2
1233818	Soil	34	2.34	503	0.006	6	2.31	0.003	0.22	<0.1	0.34	4.0	0.4	<0.05	7	2.6	<0.2
1233819	Soil	20	0.14	132	0.005	3	0.70	0.002	0.13	<0.1	0.14	0.7	0.5	<0.05	6	8.5	0.2
1233820	Soil	22	0.11	443	0.002	3	0.85	0.008	0.18	<0.1	0.23	2.1	0.5	0.22	2	5.0	0.2
1233821	Soil	19	0.71	591	0.004	4	1.18	0.004	0.18	<0.1	0.41	4.2	0.4	<0.05	4	1.8	<0.2
1233822	Soil	17	0.01	639	0.002	4	0.30	0.003	0.10	<0.1	1.28	1.8	0.5	0.19	2	5.3	<0.2
1233823	Soil	9	<0.01	97	<0.001	<1	0.14	<0.001	0.02	<0.1	0.05	1.2	<0.1	<0.05	<1	0.6	<0.2
1233824	Soil	29	0.06	351	0.004	2	1.14	0.003	0.10	<0.1	0.91	5.6	0.3	<0.05	2	1.9	0.2
1233825	Soil	28	0.02	160	0.002	5	0.36	0.007	0.33	<0.1	0.69	0.9	0.7	0.95	4	5.5	0.4
1233826	Soil	12	0.08	221	0.005	3	0.73	0.004	0.18	<0.1	0.16	3.2	0.2	<0.05	2	3.8	<0.2
1233827	Soil	20	0.65	364	0.003	6	1.13	0.004	0.26	<0.1	0.52	7.3	0.3	<0.05	3	5.3	<0.2
1233828	Soil	17	0.18	325	0.004	3	0.94	0.002	0.13	<0.1	0.48	4.1	0.2	<0.05	3	3.6	<0.2
1233829	Soil	20	0.10	279	0.003	3	0.57	0.009	0.36	<0.1	0.67	4.2	0.5	0.70	3	3.4	0.6
1233830	Soil	62	0.16	226	0.006	2	1.30	0.003	0.06	<0.1	0.06	2.2	0.1	<0.05	6	1.4	<0.2
1233831	Soil	29	0.12	260	0.006	2	0.81	0.004	0.07	<0.1	0.10	0.7	0.2	0.12	5	2.4	<0.2
1233832	Soil	38	0.25	300	0.010	2	1.52	0.005	0.08	<0.1	0.07	2.9	0.2	0.07	6	2.7	<0.2
1233901	Soil	32	1.01	608	0.012	9	1.72	0.007	0.36	<0.1	0.31	4.9	0.4	<0.05	5	5.2	<0.2
1233902	Soil	27	1.07	387	0.010	4	1.72	0.007	0.17	0.1	0.15	3.6	0.3	<0.05	5	2.2	<0.2
1233903	Soil	30	1.09	333	0.006	6	2.18	0.004	0.18	<0.1	0.05	1.2	0.3	<0.05	7	0.9	<0.2
1233904	Soil	16	0.09	157	0.004	3	0.75	0.006	0.11	<0.1	0.19	1.1	0.5	<0.05	3	5.6	0.2
1233905	Soil	44	0.19	227	0.007	1	0.93	0.011	0.06	0.1	0.14	4.1	0.2	0.06	3	1.9	0.3
1233906	Soil	20	0.05	127	0.014	2	0.50	0.007	0.09	0.1	0.04	0.9	<0.1	<0.05	4	0.8	<0.2
1233907	Soil	31	1.02	565	0.008	6	1.67	0.008	0.18	<0.1	0.14	4.1	0.3	<0.05	6	1.8	<0.2
1233908	Soil	29	1.49	789	0.007	10	1.91	0.008	0.27	<0.1	0.55	3.4	0.5	0.07	6	4.2	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1233909	Soil																							
1233910	Soil																							
1233911	Soil																							
1233912	Soil																							
1233913	Soil																							
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1233909	Soil	31	1.36	548	0.006	11	1.81	0.005	0.29	<0.1	0.20	1.4	0.3	<0.05	6	2.4	<0.2
1233910	Soil	35	0.08	319	0.006	4	0.60	0.008	0.26	<0.1	0.38	1.2	0.5	0.48	4	7.7	<0.2
1233911	Soil	30	0.92	329	0.010	7	1.69	0.008	0.25	0.1	0.44	2.7	0.4	<0.05	5	3.3	<0.2
1233912	Soil	27	1.55	346	0.011	11	1.43	0.009	0.23	<0.1	0.17	3.4	0.3	0.10	5	1.5	<0.2
1233913	Soil	30	1.57	390	0.013	9	1.73	0.008	0.23	<0.1	0.18	2.9	0.4	0.09	6	3.0	<0.2
1233914	Soil	27	0.16	335	0.010	2	1.11	0.036	0.29	0.1	0.38	2.0	0.5	0.57	5	5.1	0.3
1233915	Soil	35	0.68	1569	0.005	9	1.88	0.006	0.36	<0.1	0.94	7.2	0.5	<0.05	5	11.7	0.3
1233916	Soil	30	0.28	818	0.003	2	2.48	0.005	0.12	<0.1	0.20	10.8	0.2	<0.05	3	4.3	0.2
1233917	Soil	12	0.07	579	0.001	3	0.35	0.010	0.13	<0.1	0.97	1.7	0.6	0.28	2	6.7	<0.2
1233918	Soil	30	0.16	477	0.009	3	1.27	0.011	0.30	0.1	0.22	2.5	0.4	0.47	5	5.2	0.3
1233919	Soil	32	0.23	1609	0.006	2	0.88	0.006	0.09	<0.1	0.39	11.9	0.2	<0.05	3	2.3	0.3
1233920	Soil	31	0.89	271	0.011	10	1.62	0.053	0.45	<0.1	1.93	5.0	0.6	0.53	6	6.9	<0.2
1233921	Soil	64	0.18	1003	0.008	5	0.92	0.024	0.39	0.1	1.42	6.7	0.6	0.72	5	9.5	0.3
1233922	Soil	27	0.39	869	0.003	4	1.32	0.003	0.18	<0.1	0.65	4.4	0.2	0.05	4	4.1	<0.2
1233923	Soil	45	0.22	504	0.008	4	1.55	0.004	0.13	<0.1	0.31	1.9	0.2	0.12	7	1.8	<0.2
1233924	Soil	26	0.11	310	0.010	2	1.05	0.003	0.08	0.1	0.15	4.1	0.2	0.06	5	2.4	<0.2
1233925	Soil	29	0.15	412	0.005	3	1.74	0.004	0.09	<0.1	0.12	7.0	0.3	<0.05	4	2.1	<0.2
1233926	Soil	6	0.11	526	0.002	1	0.64	0.003	0.09	<0.1	1.13	2.9	0.6	<0.05	1	1.9	<0.2
1233927	Soil	18	0.34	596	0.003	10	1.23	0.003	0.28	<0.1	0.83	9.3	0.5	<0.05	3	8.7	<0.2
1233928	Soil	12	0.06	306	0.004	4	0.60	0.010	0.09	<0.1	0.23	0.8	0.2	0.13	2	3.8	<0.2
1233929	Soil	28	0.16	206	0.008	2	0.93	0.005	0.09	<0.1	0.06	0.5	0.2	0.07	5	2.4	<0.2
1233930	Soil	22	0.15	353	0.010	2	1.08	0.031	0.15	<0.1	0.12	1.2	0.2	0.28	5	2.8	<0.2
1233931	Soil	16	0.03	298	0.002	2	0.40	0.017	0.17	<0.1	0.86	1.6	0.3	0.41	2	4.6	<0.2
1233932	Soil	55	0.05	201	0.004	2	0.94	0.015	0.26	<0.1	0.42	10.5	0.7	0.60	3	7.2	0.3
1233933	Soil	23	0.10	194	0.006	1	0.83	0.003	0.08	<0.1	0.07	0.5	0.1	0.05	4	1.9	<0.2
1233934	Soil	28	0.08	391	0.006	3	0.82	0.004	0.10	0.1	0.11	1.9	0.3	0.14	3	3.4	<0.2
1233935	Soil	22	0.10	440	0.005	4	0.59	0.003	0.16	<0.1	0.53	3.1	0.5	<0.05	2	5.1	<0.2
1233936	Soil	19	0.05	710	0.004	2	0.62	0.005	0.10	<0.1	0.52	2.1	0.4	0.22	2	4.8	<0.2
1233937	Soil	38	1.07	793	0.008	11	1.95	0.006	0.44	<0.1	0.27	5.6	0.5	0.08	6	9.0	0.4
1233938	Soil	19	0.08	237	0.004	4	0.66	0.003	0.16	<0.1	0.27	1.0	0.5	<0.05	3	5.3	<0.2



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Project: EM
Report Date: October 28, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo 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
1233939	Soil	2.7	127.1	79.6	119	0.2	101.9	35.9	3816	4.60	93.2	5.3	1.3	17	0.2	4.0	0.4	47	0.04	0.123	6
1233940	Soil	4.0	73.8	18.6	154	<0.1	37.0	11.5	651	3.25	49.1	1.7	0.1	11	0.2	2.2	0.4	63	0.02	0.084	7
1233941	Soil	21.3	213.2	31.8	477	1.6	74.2	9.4	63	4.04	15.1	9.2	3.3	144	4.9	9.7	0.2	293	0.60	0.435	29
1233942	Soil	5.7	197.3	30.2	290	0.4	136.7	52.7	4681	4.33	249.2	23.1	1.5	66	0.5	9.9	0.5	68	0.40	0.212	5
1233943	Soil	14.9	151.3	23.2	315	1.0	50.7	13.8	2010	2.65	21.1	10.2	0.2	34	2.2	4.5	0.3	70	0.37	0.275	10
1233944	Soil	5.7	40.2	13.4	38	1.2	9.7	0.9	83	1.41	17.7	8.0	0.5	51	0.3	2.2	0.2	77	0.02	0.094	7
1233945	Soil	7.8	95.1	21.1	201	0.3	31.9	11.7	944	3.48	13.4	7.2	0.4	17	0.8	2.8	0.3	66	0.10	0.215	10
1233946	Soil	2.8	46.1	26.5	85	0.2	16.2	10.0	740	2.88	10.3	3.2	0.2	11	0.2	1.7	0.3	80	0.04	0.113	12
1233947	Soil	15.6	103.3	15.5	318	0.3	38.5	5.9	237	2.15	12.2	4.9	0.2	29	1.7	5.0	0.2	66	0.32	0.234	11
1233948	Soil	7.8	58.9	22.3	200	0.2	27.0	9.1	433	4.05	16.3	4.5	1.0	18	1.4	3.3	0.2	101	0.14	0.393	13
1233949	Soil	11.7	61.5	27.3	221	1.7	43.0	6.3	123	3.57	33.1	3.0	0.6	64	0.8	4.2	0.3	82	0.04	0.225	20
1233950	Soil	8.6	90.9	24.2	221	0.3	31.5	14.1	444	3.42	14.2	7.6	0.9	27	2.0	3.5	0.3	132	0.17	0.181	17
1233951	Soil	8.8	70.1	21.2	274	0.2	28.4	6.3	261	2.85	11.7	4.0	0.4	25	3.2	3.9	0.3	119	0.21	0.235	15
1233952	Soil	13.2	88.8	20.8	318	1.0	54.6	12.1	521	4.82	30.0	7.4	1.8	46	1.1	6.7	0.2	77	0.06	0.124	19
1233953	Soil	4.3	85.5	17.4	142	0.9	27.0	9.9	319	2.52	6.2	5.2	1.4	35	1.5	2.2	0.2	84	0.79	0.187	24
1233954	Soil	27.3	206.7	24.6	979	2.2	84.6	15.5	395	3.37	22.7	9.6	1.1	65	6.6	11.4	0.2	245	0.76	0.341	23
1233955	Soil	11.1	149.6	22.6	413	1.9	54.0	12.5	255	3.68	15.5	17.0	1.5	50	2.9	5.2	0.2	151	0.64	0.302	28
1233956	Soil	7.8	111.1	40.1	343	0.2	44.0	22.9	1073	4.54	16.1	15.3	0.8	25	2.4	4.3	0.2	172	0.28	0.246	13
1233957	Soil	11.0	180.1	17.5	294	2.0	57.7	20.4	372	4.34	8.3	10.1	3.7	32	2.5	3.1	0.2	107	0.42	0.197	27
1233958	Soil	34.3	352.2	26.5	787	3.7	114.7	22.0	806	4.35	22.4	27.5	3.7	106	9.6	9.6	0.2	160	1.46	0.530	25
1233959	Soil	4.4	70.5	17.7	107	0.8	40.7	7.8	1168	2.69	25.1	14.2	1.5	81	0.4	2.0	0.3	28	0.04	0.093	21
1233960	Soil	2.8	100.1	17.3	201	<0.1	40.3	15.8	1116	3.42	11.3	2.2	0.3	12	0.3	1.6	0.3	47	0.03	0.067	11
1233961	Soil	4.9	68.6	19.2	156	0.1	31.4	8.9	637	3.54	15.7	3.9	0.2	19	0.4	2.2	0.4	74	0.04	0.081	13
1233962	Soil	3.7	87.8	32.4	105	0.2	25.4	20.1	1553	3.86	10.4	5.6	0.6	17	1.2	2.4	0.3	97	0.09	0.253	16
1233963	Soil	30.1	178.7	19.2	534	0.2	58.2	7.4	433	2.51	16.0	7.2	0.1	24	1.7	8.9	0.2	102	0.25	0.234	8
1234151	Soil	22.9	117.1	16.9	795	6.9	180.5	7.2	96	2.30	33.8	5.0	2.2	105	7.8	9.1	0.2	266	0.65	0.202	25
1234152	Soil	5.2	104.4	22.2	332	0.6	96.7	20.3	510	4.67	29.0	14.9	3.5	5	0.7	4.2	0.4	44	0.02	0.062	15
1234153	Soil	4.9	23.9	12.9	151	0.7	24.4	5.8	200	2.46	12.5	2.3	1.5	18	2.2	3.6	<0.1	46	0.35	0.182	21



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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
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1233939	Soil	27	0.13	168	0.004	1	0.76	0.004	0.06	<0.1	0.08	4.8	0.1	<0.05	3	1.7	<0.2
1233940	Soil	20	0.05	175	0.005	2	0.56	0.003	0.06	<0.1	0.03	0.5	0.1	<0.05	4	1.2	<0.2
1233941	Soil	42	1.54	731	0.008	12	2.57	0.009	0.41	<0.1	0.36	3.0	0.4	0.13	7	36.9	<0.2
1233942	Soil	29	0.60	842	0.004	3	1.16	0.002	0.08	<0.1	0.13	5.6	0.1	<0.05	4	3.6	0.2
1233943	Soil	17	0.11	522	0.002	3	0.76	0.004	0.10	<0.1	0.18	0.3	0.3	0.07	3	5.2	0.2
1233944	Soil	21	0.03	559	0.002	2	0.55	0.011	0.12	0.1	0.64	0.7	0.3	0.20	2	3.7	<0.2
1233945	Soil	25	0.20	271	0.005	7	1.13	0.004	0.12	<0.1	0.11	0.6	0.2	0.06	4	2.8	<0.2
1233946	Soil	19	0.30	129	0.011	1	1.01	0.007	0.09	0.1	0.04	0.8	0.1	<0.05	6	0.9	<0.2
1233947	Soil	17	0.20	231	0.005	2	0.95	0.009	0.11	<0.1	0.14	0.5	0.3	<0.05	3	5.9	<0.2
1233948	Soil	29	0.58	257	0.011	2	1.64	0.003	0.14	<0.1	0.08	1.1	0.2	<0.05	6	4.4	<0.2
1233949	Soil	30	0.04	385	0.006	2	0.92	0.025	0.19	0.1	0.62	0.7	0.3	0.38	4	8.7	<0.2
1233950	Soil	29	1.15	253	0.010	4	1.85	0.006	0.19	<0.1	0.06	1.4	0.3	<0.05	7	2.8	<0.2
1233951	Soil	30	0.51	397	0.005	5	1.18	0.004	0.20	<0.1	0.06	0.6	0.2	<0.05	6	3.5	<0.2
1233952	Soil	24	0.31	405	0.008	2	1.39	0.009	0.13	0.1	0.09	1.9	0.4	0.13	4	8.7	<0.2
1233953	Soil	27	1.26	538	0.005	4	1.69	0.004	0.14	<0.1	0.17	1.7	0.2	<0.05	6	2.2	<0.2
1233954	Soil	42	1.53	299	0.006	8	1.97	0.009	0.25	<0.1	0.52	1.8	0.4	<0.05	7	5.8	<0.2
1233955	Soil	32	1.67	316	0.006	7	2.04	0.004	0.22	<0.1	0.38	2.7	0.3	<0.05	6	5.2	<0.2
1233956	Soil	39	1.96	266	0.006	4	2.47	0.004	0.15	<0.1	0.12	1.0	0.4	<0.05	8	5.5	<0.2
1233957	Soil	33	2.40	490	0.008	9	2.63	0.004	0.29	<0.1	0.25	6.9	0.3	<0.05	7	4.4	<0.2
1233958	Soil	28	0.82	414	0.007	10	1.27	0.007	0.33	<0.1	0.85	5.7	0.5	<0.05	4	10.4	0.3
1233959	Soil	19	0.08	518	0.004	2	0.71	0.028	0.15	<0.1	0.23	1.7	0.3	0.30	3	4.0	<0.2
1233960	Soil	19	0.12	93	0.014	2	0.73	0.009	0.05	0.1	0.04	1.5	0.1	<0.05	4	1.7	<0.2
1233961	Soil	26	0.16	139	0.012	2	0.97	0.004	0.06	0.2	0.07	1.1	0.2	<0.05	6	2.1	<0.2
1233962	Soil	35	0.63	341	0.006	2	1.77	0.004	0.10	<0.1	0.08	0.8	0.1	0.10	8	1.8	<0.2
1233963	Soil	15	0.09	285	0.002	5	0.56	0.003	0.15	<0.1	0.12	0.5	0.4	<0.05	3	13.0	0.3
1234151	Soil	68	0.06	2055	0.003	6	1.23	0.006	0.07	0.2	1.24	4.6	1.1	0.09	3	20.1	<0.2
1234152	Soil	15	0.24	364	0.005	3	1.13	0.002	0.14	<0.1	0.18	5.3	0.2	<0.05	3	1.7	<0.2
1234153	Soil	8	0.08	262	0.003	4	0.67	0.004	0.08	<0.1	0.16	1.4	0.4	<0.05	1	1.9	<0.2



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Project: EM

Report Date: October 28, 2011

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QUALITY CONTROL REPORT

WHI11001422.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
1233757	Soil	28.5	100.7	20.1	397	0.7	238.3	59.3	4577	8.33	12.1	15.2	3.7	33	4.0	3.6	0.2	211	0.13	0.060	36
REP 1233757	QC	28.0	96.9	18.9	391	0.6	234.1	59.8	4535	8.31	11.9	15.8	3.6	33	4.1	3.5	0.2	214	0.12	0.059	34
1233774	Soil	5.7	124.2	11.8	405	2.0	71.9	12.2	128	3.20	31.3	10.0	4.8	29	2.1	34.8	0.3	52	0.14	0.143	17
REP 1233774	QC	6.1	128.1	12.0	409	2.1	74.9	12.9	131	3.36	32.5	13.2	4.8	31	2.0	35.7	0.3	49	0.15	0.147	16
1233775	Soil	8.0	82.7	11.4	279	0.6	69.1	12.9	593	4.02	20.2	9.2	4.6	58	1.3	7.6	0.3	68	2.39	0.060	17
REP 1233775	QC	8.5	85.0	11.9	288	0.7	72.5	13.6	604	4.15	20.6	10.1	4.8	60	1.3	7.9	0.3	70	2.48	0.062	18
1233803	Soil	11.6	115.2	14.9	318	0.2	54.7	10.7	284	2.85	17.0	6.9	1.8	28	1.6	5.6	0.2	114	0.75	0.431	24
REP 1233803	QC	11.3	117.0	14.9	325	0.2	55.0	10.9	290	2.91	17.2	7.1	1.7	28	1.6	5.6	0.2	118	0.75	0.428	24
1233817	Soil	15.1	282.5	23.5	484	0.1	85.8	17.5	1953	4.36	12.5	39.0	1.1	36	0.7	4.3	0.2	67	0.33	0.272	7
REP 1233817	QC	15.8	301.8	24.4	502	0.1	90.7	18.2	2041	4.52	13.0	37.8	1.2	38	0.7	4.5	0.2	71	0.37	0.287	7
1233902	Soil	6.6	88.2	25.4	198	0.7	40.5	13.9	418	3.59	16.9	8.6	2.5	40	1.0	2.7	0.2	82	0.53	0.210	23
REP 1233902	QC	6.9	87.4	24.7	197	0.7	39.7	14.1	395	3.52	16.5	8.9	2.5	40	1.2	2.8	0.2	87	0.51	0.215	23
1233920	Soil	41.8	229.3	49.0	337	2.4	63.7	29.9	503	5.88	49.2	17.5	7.2	106	3.9	9.1	0.3	156	0.52	0.303	28
REP 1233920	QC	41.7	234.5	49.7	338	2.5	67.4	30.8	531	6.01	50.7	17.6	6.5	105	4.1	9.9	0.3	164	0.51	0.298	29
1233943	Soil	14.9	151.3	23.2	315	1.0	50.7	13.8	2010	2.65	21.1	10.2	0.2	34	2.2	4.5	0.3	70	0.37	0.275	10
REP 1233943	QC	15.2	149.0	23.1	317	1.0	50.5	13.4	1959	2.64	20.4	9.3	0.2	34	2.2	4.3	0.2	64	0.38	0.275	10
1233950	Soil	8.6	90.9	24.2	221	0.3	31.5	14.1	444	3.42	14.2	7.6	0.9	27	2.0	3.5	0.3	132	0.17	0.181	17
REP 1233950	QC	8.2	89.2	23.7	220	0.3	30.7	13.7	443	3.36	13.5	6.9	1.0	27	1.8	3.6	0.2	131	0.16	0.184	17
Reference Materials																					
STD DS8	Standard	12.9	93.8	104.1	282	1.6	35.3	7.2	572	2.25	24.7	107.3	5.5	62	2.3	5.0	6.1	42	0.64	0.080	15
STD DS8	Standard	13.3	110.5	118.1	312	1.9	33.3	7.1	602	2.39	25.5	109.3	6.6	69	2.5	5.2	6.4	41	0.71	0.079	15
STD DS8	Standard	13.1	106.7	119.9	296	1.7	36.9	7.4	584	2.39	21.6	106.8	6.8	59	2.0	5.0	5.7	41	0.68	0.069	15
STD DS8	Standard	11.8	107.6	125.0	306	1.8	36.8	7.3	583	2.40	24.0	112.2	6.2	64	2.3	5.4	6.4	40	0.65	0.076	13
STD DS8	Standard	12.8	107.3	125.6	302	1.8	36.0	7.3	600	2.41	24.4	110.1	6.9	63	2.4	5.8	6.8	41	0.69	0.079	15
STD DS8	Standard	12.6	105.5	121.9	297	1.7	36.1	7.1	587	2.40	23.6	104.0	6.4	60	2.2	5.5	6.1	40	0.65	0.077	14
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client:

Goldstrike Resources (Petro One Energy Co

1300 - 111 West Georgia Street

Vancouver BC V6E 4M3 Canada

Project:

EM

Report Date:

October 28, 2011

Page:

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Part 2

QUALITY CONTROL REPORT

WHI11001422.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1233757	Soil	28	0.35	1049	0.005	4	1.29	0.004	0.11	<0.1	0.32	8.2	0.4	<0.05	3	1.8	<0.2
REP 1233757	QC	29	0.35	1029	0.005	4	1.29	0.004	0.11	<0.1	0.31	8.2	0.4	<0.05	4	1.4	<0.2
1233774	Soil	13	0.03	249	0.002	3	0.52	0.003	0.09	0.2	0.17	5.3	0.2	<0.05	<1	1.9	<0.2
REP 1233774	QC	12	0.02	232	0.001	4	0.47	0.003	0.08	0.2	0.18	5.3	0.2	<0.05	<1	1.7	<0.2
1233775	Soil	14	1.22	744	0.002	4	0.25	0.006	0.06	<0.1	0.41	7.0	0.3	0.12	<1	6.0	<0.2
REP 1233775	QC	15	1.28	787	0.002	4	0.29	0.006	0.07	<0.1	0.40	7.3	0.3	0.10	<1	6.3	<0.2
1233803	Soil	26	0.42	428	0.005	8	1.48	0.003	0.33	<0.1	0.19	1.7	0.6	<0.05	4	2.5	<0.2
REP 1233803	QC	27	0.42	443	0.005	9	1.49	0.003	0.35	<0.1	0.16	1.7	0.6	<0.05	4	2.6	<0.2
1233817	Soil	15	0.05	224	0.004	4	0.64	0.002	0.14	<0.1	0.15	2.6	0.3	<0.05	3	5.3	<0.2
REP 1233817	QC	16	0.06	229	0.004	5	0.68	0.002	0.15	<0.1	0.16	2.6	0.3	<0.05	3	5.9	<0.2
1233902	Soil	27	1.07	387	0.010	4	1.72	0.007	0.17	0.1	0.15	3.6	0.3	<0.05	5	2.2	<0.2
REP 1233902	QC	28	1.10	389	0.013	6	1.79	0.007	0.19	<0.1	0.15	3.6	0.3	<0.05	5	2.0	<0.2
1233920	Soil	31	0.89	271	0.011	10	1.62	0.053	0.45	<0.1	1.93	5.0	0.6	0.53	6	6.9	<0.2
REP 1233920	QC	33	0.89	327	0.012	10	1.62	0.054	0.50	<0.1	1.99	5.2	0.6	0.51	6	7.8	0.2
1233943	Soil	17	0.11	522	0.002	3	0.76	0.004	0.10	<0.1	0.18	0.3	0.3	0.07	3	5.2	0.2
REP 1233943	QC	16	0.10	488	0.002	2	0.70	0.004	0.09	<0.1	0.16	0.4	0.3	0.06	2	4.7	<0.2
1233950	Soil	29	1.15	253	0.010	4	1.85	0.006	0.19	<0.1	0.06	1.4	0.3	<0.05	7	2.8	<0.2
REP 1233950	QC	29	1.16	251	0.009	5	1.81	0.006	0.19	<0.1	0.07	1.3	0.3	<0.05	7	3.1	<0.2
Reference Materials																	
STD DS8	Standard	109	0.58	275	0.110	2	0.87	0.087	0.40	2.8	0.20	1.9	5.0	0.16	4	4.8	4.5
STD DS8	Standard	113	0.62	299	0.118	3	0.97	0.120	0.46	3.0	0.20	3.0	5.4	0.15	5	5.1	5.1
STD DS8	Standard	115	0.57	251	0.112	2	0.87	0.083	0.39	2.9	0.19	2.2	5.2	0.14	5	5.1	4.9
STD DS8	Standard	108	0.58	263	0.107	3	0.87	0.089	0.41	2.8	0.20	2.1	5.1	0.14	5	5.7	5.1
STD DS8	Standard	114	0.62	260	0.106	3	0.91	0.094	0.42	2.7	0.22	2.2	5.4	0.14	4	5.9	5.0
STD DS8	Standard	112	0.59	269	0.104	2	0.88	0.091	0.41	2.9	0.20	1.8	5.3	0.17	4	5.0	4.9
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: EM

Report Date: October 28, 2011

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QUALITY CONTROL REPORT

WHI11001422.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	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
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
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



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



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1300 - 111 West Georgia Street
Vancouver BC V6E 4M3 Canada

Submitted By: Email Distribution List
Receiving Lab: Canada-Whitehorse
Received: September 07, 2011
Report Date: November 14, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI11001575.1

CLIENT JOB INFORMATION

Project: EM
Shipment ID: EM-2
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	80	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B	80	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	80	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS



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



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Vancouver BC V6E 4M3 Canada

Project: EM
Report Date: November 14, 2011

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

WHI11001575.1

	Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1234001	Rock	0.76	<2	0.4	63.7	9.6	30	<0.1	10.5	4.4	86	1.99	2.3	1.6	4.7	18	<0.1	0.3	0.2	11
1234002	Rock	1.49	<2	0.8	10.8	7.1	10	<0.1	5.4	1.9	31	1.59	2.0	0.8	0.3	15	<0.1	0.3	<0.1	2
1234003	Rock	0.78	4	0.4	14.9	7.2	153	<0.1	26.6	6.3	76	2.67	37.5	4.0	0.7	20	<0.1	2.0	0.3	7
1234004	Rock	1.04	2	0.2	10.0	7.9	20	<0.1	10.7	3.2	959	6.27	0.5	3.3	2.2	249	0.1	0.6	<0.1	8
1234005	Rock	0.62	<2	1.2	36.5	8.2	66	<0.1	12.7	3.8	79	2.96	12.2	0.6	1.5	10	<0.1	0.9	0.2	21
1234006	Rock	0.81	<2	0.2	16.5	1.2	25	<0.1	6.2	1.8	277	1.04	3.7	0.5	0.5	6	<0.1	0.1	<0.1	3
1234007	Rock	0.91	9	1.7	18.0	9.9	39	0.2	57.5	12.1	1278	2.10	5.8	1.1	5.9	597	0.1	0.6	<0.1	44
1234008	Rock	1.58	<2	0.2	8.1	0.3	10	<0.1	3.7	1.6	229	0.27	2.6	1.1	0.1	33	0.1	0.1	<0.1	<2
1234009	Rock	0.83	<2	1.2	1.5	32.9	76	<0.1	4.2	0.4	58	0.59	2.3	1.4	3.0	78	0.4	<0.1	<0.1	<2
1234010	Rock	0.65	<2	0.1	6.0	1.3	18	<0.1	5.1	2.3	635	2.11	0.8	1.2	1.5	472	<0.1	0.2	<0.1	7
1234011	Rock	0.71	5	0.7	7.2	1.5	9	1.2	2.9	0.4	20	0.51	5.4	1.0	0.3	27	<0.1	2.4	<0.1	6
1234012	Rock	0.83	<2	<0.1	8.8	2.0	21	<0.1	8.8	3.4	818	3.52	<0.5	2.4	2.2	399	<0.1	<0.1	<0.1	11
1234013	Rock	0.90	<2	2.0	9.9	3.1	29	0.2	24.0	3.8	756	1.97	7.0	<0.5	2.4	602	0.3	1.2	<0.1	13
1234014	Rock	0.65	8	1.9	15.2	5.8	46	0.2	26.6	5.0	1394	1.68	3.6	2.3	1.5	543	0.4	0.6	<0.1	29
1234015	Rock	0.84	3	8.6	21.8	4.2	43	2.5	9.4	0.6	21	0.80	3.0	<0.5	0.6	30	0.2	1.4	<0.1	35
1234016	Rock	1.00	<2	0.5	3.7	0.3	48	<0.1	10.4	1.0	54	0.57	0.5	<0.5	0.1	6	0.3	<0.1	<0.1	2
1234017	Rock	0.86	<2	0.7	31.9	3.7	121	<0.1	41.1	5.8	1358	1.46	11.2	1.5	0.7	13	1.9	0.4	<0.1	6
1234018	Rock	0.78	<2	0.2	29.1	3.5	35	<0.1	19.5	4.7	201	1.12	1.2	0.6	0.8	12	0.4	<0.1	<0.1	6
1234019	Rock	0.92	<2	0.1	14.5	0.9	22	<0.1	11.1	3.0	168	1.32	2.3	<0.5	0.5	10	<0.1	0.2	<0.1	7
1234020	Rock	1.00	<2	0.6	24.1	0.2	63	<0.1	23.1	7.6	829	0.87	13.8	0.8	0.2	6	0.9	0.4	<0.1	3
1234021	Rock	0.94	<2	0.2	15.8	2.1	33	<0.1	37.5	5.0	2698	1.19	1.1	0.9	0.3	9	1.2	0.2	<0.1	3
1234022	Rock	0.39	4	2.1	23.0	3.7	48	<0.1	4.7	0.7	18	0.87	3.6	2.3	0.4	52	<0.1	0.3	<0.1	6
1234023	Rock	1.05	8	0.8	22.8	3.3	29	1.0	16.7	1.9	54	0.93	2.2	2.1	0.3	45	0.1	0.4	<0.1	6
1234024	Rock	0.45	5	0.7	56.1	1.6	27	<0.1	20.9	6.0	253	0.77	7.1	2.1	0.4	4	0.1	2.0	<0.1	7
1234025	Rock	0.74	<2	0.1	8.9	0.7	7	<0.1	6.8	1.4	134	0.49	<0.5	2.2	0.2	2	<0.1	0.2	<0.1	3
1234026	Rock	0.73	16	0.1	21.8	1.4	17	<0.1	4.4	1.0	259	0.92	<0.5	7.0	0.4	5	0.2	0.2	<0.1	9
1234027	Rock	0.71	5	0.2	12.3	0.9	26	<0.1	2.5	0.5	264	0.59	1.0	2.7	0.4	20	0.5	0.6	<0.1	3
1234028	Rock	0.82	4	0.2	47.7	7.5	97	0.4	35.2	8.3	272	2.32	1.4	0.7	1.7	53	0.1	0.2	0.2	23
1234029	Rock	0.94	<2	0.8	2.3	1.3	11	<0.1	2.7	1.4	410	0.78	1.2	<0.5	1.4	481	<0.1	<0.1	<0.1	8
1234030	Rock	0.84	14	<0.1	9.1	1.0	5	<0.1	4.0	0.9	2379	3.77	67.4	8.7	0.4	144	<0.1	1.2	<0.1	7



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CERTIFICATE OF ANALYSIS

WHI11001575.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	
0.2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
1234001	Rock	0.019	7	13	0.26	527	0.004	<20	0.80	0.009	0.29	<0.1	0.06	<0.1	0.28	2.9	<0.5	3	<0.2
1234002	Rock	0.004	<1	16	0.02	371	<0.001	<20	0.14	0.002	0.06	<0.1	0.04	<0.1	0.84	0.5	0.7	<1	<0.2
1234003	Rock	0.034	1	5	0.11	3996	0.001	<20	0.59	0.002	0.18	<0.1	0.06	<0.1	0.11	2.5	0.8	2	<0.2
1234004	Rock	0.020	5	10	4.78	65	0.007	<20	0.31	0.011	0.15	<0.1	0.11	<0.1	1.93	2.4	2.7	1	<0.2
1234005	Rock	0.021	2	14	0.37	206	0.003	<20	0.85	0.002	0.07	<0.1	0.07	<0.1	0.94	1.5	0.7	2	<0.2
1234006	Rock	0.012	2	9	0.07	134	<0.001	<20	0.18	0.002	0.05	<0.1	0.02	<0.1	<0.05	0.8	<0.5	<1	<0.2
1234007	Rock	0.234	51	99	0.94	456	0.004	<20	0.61	0.015	0.04	<0.1	0.14	<0.1	0.61	4.3	0.8	2	<0.2
1234008	Rock	0.005	<1	11	<0.01	34	<0.001	<20	0.05	0.001	0.02	<0.1	0.01	<0.1	<0.05	0.6	<0.5	<1	<0.2
1234009	Rock	0.006	3	<1	0.01	107	<0.001	<20	0.28	0.025	0.21	<0.1	0.02	0.1	<0.05	0.4	0.9	<1	<0.2
1234010	Rock	0.020	3	7	8.38	2677	0.008	<20	0.17	0.055	0.06	<0.1	0.03	<0.1	0.10	1.7	<0.5	<1	<0.2
1234011	Rock	0.005	<1	3	<0.01	134	<0.001	<20	0.07	<0.001	0.05	<0.1	0.16	<0.1	0.23	0.3	2.0	<1	<0.2
1234012	Rock	0.020	5	8	6.86	936	0.002	<20	0.23	0.016	0.13	<0.1	0.03	<0.1	0.25	2.2	<0.5	<1	<0.2
1234013	Rock	0.058	23	6	0.39	116	0.001	<20	0.16	0.005	0.09	<0.1	0.17	0.2	1.44	1.9	0.8	<1	<0.2
1234014	Rock	0.621	21	13	0.79	330	0.004	<20	0.16	0.011	0.05	<0.1	0.15	<0.1	0.61	1.8	1.2	<1	<0.2
1234015	Rock	0.012	<1	11	0.02	606	<0.001	<20	0.18	<0.001	0.10	<0.1	0.19	<0.1	0.21	1.4	7.6	<1	<0.2
1234016	Rock	0.004	<1	9	0.02	46	<0.001	<20	0.08	0.002	0.01	<0.1	0.02	<0.1	<0.05	1.0	<0.5	<1	<0.2
1234017	Rock	0.025	4	5	0.05	3495	<0.001	<20	0.41	<0.001	0.06	<0.1	0.03	<0.1	0.07	2.0	<0.5	<1	<0.2
1234018	Rock	0.018	4	16	0.08	292	0.001	<20	0.23	0.004	0.08	<0.1	0.02	<0.1	<0.05	1.4	<0.5	<1	<0.2
1234019	Rock	0.006	1	6	0.23	148	<0.001	<20	0.36	0.002	0.05	<0.1	0.01	<0.1	<0.05	1.1	0.6	1	<0.2
1234020	Rock	0.008	<1	12	0.05	106	<0.001	<20	0.21	<0.001	0.04	<0.1	0.01	<0.1	<0.05	1.6	<0.5	<1	<0.2
1234021	Rock	0.022	<1	3	0.02	301	<0.001	<20	0.31	<0.001	0.03	<0.1	0.03	<0.1	<0.05	1.2	<0.5	<1	<0.2
1234022	Rock	0.052	1	4	0.06	1113	<0.001	<20	0.32	0.001	0.09	<0.1	0.05	<0.1	0.07	1.1	3.5	<1	<0.2
1234023	Rock	0.019	<1	4	0.06	322	<0.001	<20	0.22	0.003	0.06	<0.1	0.07	<0.1	0.46	1.0	1.6	<1	<0.2
1234024	Rock	0.006	2	17	0.21	807	<0.001	<20	0.28	0.001	0.04	<0.1	0.03	<0.1	<0.05	1.0	<0.5	1	<0.2
1234025	Rock	0.003	<1	4	0.12	83	<0.001	<20	0.15	0.002	0.02	<0.1	0.02	<0.1	<0.05	0.4	<0.5	<1	<0.2
1234026	Rock	0.004	<1	19	0.19	140	<0.001	<20	0.26	<0.001	0.04	<0.1	0.03	<0.1	<0.05	1.0	<0.5	<1	<0.2
1234027	Rock	0.003	1	3	0.37	156	<0.001	<20	0.11	<0.001	0.05	<0.1	0.02	<0.1	<0.05	0.9	<0.5	<1	<0.2
1234028	Rock	0.028	7	20	0.95	318	0.002	<20	0.91	0.003	0.20	<0.1	0.13	<0.1	0.78	4.1	0.6	2	<0.2
1234029	Rock	0.063	10	5	3.30	2237	0.002	<20	0.47	0.006	0.07	<0.1	0.03	<0.1	0.21	1.2	<0.5	1	<0.2
1234030	Rock	0.005	7	8	2.98	135	<0.001	<20	0.06	0.003	0.02	<0.1	0.03	<0.1	<0.05	1.4	<0.5	<1	<0.2



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Project: EM
Report Date: November 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11001575.1

	Method Analyte	Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
			Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi
			kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm
			0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1
1234031	Rock		0.83	17	2.9	195.6	3.6	281	<0.1	122.9	10.4	200	4.75	52.9	10.0	1.5	3	0.7	1.1	<0.1
1234032	Rock		0.75	<2	0.2	45.6	3.9	44	<0.1	11.8	3.5	111	1.52	0.7	0.8	4.4	8	<0.1	<0.1	0.2
1234033	Rock		1.25	7	0.2	13.0	1.5	13	<0.1	4.4	0.9	28	0.62	1.0	4.4	0.4	5	<0.1	0.2	<0.1
1234034	Rock		0.65	<2	0.1	18.6	1.4	23	<0.1	12.5	3.3	154	0.91	<0.5	1.6	0.6	11	0.1	0.1	<0.1
1234035	Rock		0.78	<2	0.7	17.3	3.8	23	<0.1	15.5	3.5	291	1.31	2.7	0.9	0.6	11	<0.1	0.3	<0.1
1234036	Rock		1.06	<2	0.1	3.6	0.4	2	<0.1	1.7	0.2	23	0.22	2.3	0.8	<0.1	7	<0.1	0.2	<0.1
1234037	Rock		1.02	<2	0.2	12.2	0.8	11	<0.1	4.5	1.6	103	0.38	2.7	0.9	0.1	2	<0.1	0.1	<0.1
1234038	Rock		1.46	174	8.2	52.5	6.4	7	0.3	10.3	6.2	638	2.46	925.8	114.5	1.4	82	0.4	10.5	0.1
1234039	Rock		0.68	<2	0.2	40.3	2.0	19	<0.1	17.2	0.5	29	0.65	16.0	<0.5	1.5	89	<0.1	0.6	<0.1
1234040	Rock		1.16	<2	0.2	28.9	1.5	37	<0.1	13.4	2.3	336	1.31	11.1	3.0	0.2	2	<0.1	0.4	<0.1
1234041	Rock		1.50	3	0.8	9.9	8.9	7	<0.1	1.3	0.2	17	0.69	28.6	2.2	1.1	38	<0.1	0.7	<0.1
1234042	Rock		2.15	<2	0.1	10.0	1.7	50	<0.1	17.7	3.2	302	0.94	2.2	1.3	0.2	2	0.3	0.1	<0.1
1234043	Rock		0.73	<2	1.1	59.1	0.7	313	<0.1	118.1	11.2	519	1.59	11.9	<0.5	0.6	172	3.2	0.2	<0.1
1234101	Rock		0.75	<2	0.4	34.3	1.3	23	<0.1	8.8	0.9	107	0.42	1.5	<0.5	0.2	9	0.6	0.2	<0.1
1234102	Rock		1.45	<2	0.1	17.0	1.2	15	<0.1	8.0	2.8	748	0.87	0.7	<0.5	0.2	3	<0.1	<0.1	<0.1
1234103	Rock		0.74	<2	<0.1	12.7	1.4	38	<0.1	8.7	2.6	493	1.09	<0.5	<0.5	0.5	17	<0.1	<0.1	<0.1
1234104	Rock		0.52	3	0.6	22.0	2.3	37	<0.1	11.6	3.5	498	1.48	1.3	<0.5	3.6	173	0.3	0.1	<0.1
1234105	Rock		0.75	2	0.7	11.8	3.2	10	0.1	3.5	0.8	32	0.83	3.3	<0.5	0.3	4	0.1	0.5	<0.1
1234106	Rock		0.71	2	0.6	31.9	2.8	37	<0.1	35.6	7.5	258	1.23	2.6	<0.5	0.6	8	0.1	0.2	<0.1
1234107	Rock		1.19	4	2.3	4.7	2.5	15	<0.1	5.5	1.0	149	0.67	2.5	<0.5	0.7	550	0.1	0.6	<0.1
1234108	Rock		1.31	<2	0.8	20.5	2.2	31	<0.1	16.9	1.8	49	1.03	2.6	<0.5	0.4	2	1.2	0.3	0.1
1234109	Rock		0.91	<2	0.1	30.6	2.9	42	<0.1	16.0	4.0	460	1.19	2.1	<0.5	0.9	14	0.4	0.1	<0.1
1234110	Rock		0.69	<2	0.3	29.8	2.2	39	<0.1	21.2	3.6	174	0.68	3.1	1.9	0.5	6	0.7	0.2	<0.1
1234111	Rock		0.84	<2	0.2	13.2	2.0	23	<0.1	7.2	2.2	637	1.36	0.9	1.0	2.9	269	<0.1	0.1	<0.1
1234112	Rock		0.90	19	0.9	53.8	4.5	47	0.2	14.4	3.6	85	1.85	2.0	8.4	3.1	13	0.4	0.5	0.2
1234113	Rock		1.07	<2	2.3	26.5	1.3	28	<0.1	5.8	1.9	33	1.18	80.2	0.8	1.0	168	<0.1	5.4	<0.1
1234114	Rock		0.84	<2	<0.1	5.9	1.3	16	<0.1	7.7	2.1	1399	5.09	<0.5	0.8	1.7	433	<0.1	<0.1	<0.1
1234115	Rock		0.75	<2	0.4	11.5	6.5	14	0.1	5.2	1.3	36	1.09	2.2	<0.5	0.4	20	<0.1	0.4	<0.1
1234116	Rock		0.88	5	0.8	18.2	2.5	25	1.1	12.0	1.9	50	0.62	1.4	0.9	0.5	15	0.2	0.3	<0.1
1234117	Rock		0.68	<2	0.3	52.8	2.0	21	<0.1	3.7	1.0	97	0.37	0.7	1.3	0.5	71	0.2	0.2	<0.1



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Project: EM
Report Date: November 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11001575.1

Method Analyte Unit MDL		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	
0.2	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
1234031	Rock	0.058	4	11	0.10	95	0.001	<20	0.56	<0.001	0.06	<0.1	0.04	<0.1	<0.05	3.8	0.8	1	<0.2
1234032	Rock	0.022	10	7	0.18	471	<0.001	<20	0.93	0.002	0.30	<0.1	0.05	<0.1	<0.05	2.9	<0.5	2	<0.2
1234033	Rock	0.006	1	4	0.02	94	<0.001	<20	0.17	<0.001	0.08	<0.1	0.03	<0.1	<0.05	0.5	<0.5	<1	<0.2
1234034	Rock	0.013	1	13	0.17	133	0.001	<20	0.26	<0.001	0.08	<0.1	<0.01	<0.1	<0.05	1.4	<0.5	1	<0.2
1234035	Rock	0.010	3	8	0.20	124	0.001	<20	0.30	0.004	0.05	<0.1	0.03	<0.1	0.40	0.7	<0.5	1	<0.2
1234036	Rock	0.005	<1	14	<0.01	13	<0.001	<20	0.05	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1234037	Rock	0.005	<1	2	<0.01	39	<0.001	<20	0.05	<0.001	0.02	<0.1	<0.01	<0.1	<0.05	0.2	<0.5	<1	<0.2
1234038	Rock	0.178	6	18	<0.01	183	0.002	<20	0.34	<0.001	0.12	<0.1	0.16	0.4	0.18	4.0	0.6	<1	<0.2
1234039	Rock	0.240	11	12	<0.01	143	0.001	<20	0.92	<0.001	0.03	<0.1	<0.01	<0.1	<0.05	2.4	<0.5	1	<0.2
1234040	Rock	0.016	<1	15	<0.01	44	<0.001	<20	0.14	<0.001	0.03	<0.1	<0.01	<0.1	<0.05	0.9	<0.5	<1	<0.2
1234041	Rock	0.117	3	3	0.03	33	<0.001	<20	0.19	<0.001	0.05	<0.1	0.04	<0.1	<0.05	0.5	0.7	<1	<0.2
1234042	Rock	0.009	<1	17	0.11	44	<0.001	<20	0.24	<0.001	0.02	<0.1	<0.01	<0.1	<0.05	0.5	<0.5	<1	<0.2
1234043	Rock	0.064	4	6	0.06	45	<0.001	<20	0.85	<0.001	0.01	<0.1	<0.01	<0.1	<0.05	2.1	<0.5	<1	<0.2
1234101	Rock	0.007	<1	22	0.03	127	<0.001	<20	0.13	<0.001	0.03	<0.1	<0.01	<0.1	0.05	0.6	<0.5	<1	<0.2
1234102	Rock	0.009	<1	2	0.01	85	<0.001	<20	0.12	<0.001	0.04	<0.1	0.01	<0.1	<0.05	1.2	<0.5	<1	<0.2
1234103	Rock	0.012	2	15	0.16	131	<0.001	<20	0.16	0.002	0.05	<0.1	0.01	<0.1	<0.05	1.3	<0.5	<1	<0.2
1234104	Rock	0.054	15	19	6.59	296	0.009	<20	1.48	0.006	0.25	<0.1	0.05	<0.1	<0.05	3.6	<0.5	4	<0.2
1234105	Rock	0.005	<1	14	0.08	975	<0.001	<20	0.22	<0.001	0.06	<0.1	0.03	<0.1	0.11	0.5	<0.5	<1	<0.2
1234106	Rock	0.010	1	11	0.32	148	0.001	<20	0.47	<0.001	0.07	<0.1	0.02	<0.1	0.07	1.2	<0.5	2	<0.2
1234107	Rock	0.504	9	4	0.92	436	0.002	<20	0.16	0.007	0.02	<0.1	0.08	<0.1	0.05	0.8	1.0	<1	<0.2
1234108	Rock	0.005	<1	4	0.18	220	<0.001	<20	0.48	<0.001	0.08	<0.1	0.09	<0.1	0.22	1.4	<0.5	<1	<0.2
1234109	Rock	0.031	5	23	0.22	314	0.002	<20	0.49	0.002	0.07	<0.1	0.01	<0.1	<0.05	1.5	<0.5	2	<0.2
1234110	Rock	0.008	2	15	0.08	137	<0.001	<20	0.21	<0.001	0.05	<0.1	0.02	<0.1	0.19	0.6	<0.5	<1	<0.2
1234111	Rock	0.034	10	12	7.75	544	0.005	<20	1.19	0.006	0.17	<0.1	0.04	<0.1	<0.05	2.2	<0.5	3	<0.2
1234112	Rock	0.027	6	17	0.38	362	0.005	<20	0.94	0.009	0.22	<0.1	0.16	<0.1	0.26	2.0	1.3	3	<0.2
1234113	Rock	0.108	4	10	0.05	71	0.001	<20	0.39	<0.001	0.13	<0.1	<0.01	0.1	0.22	1.0	0.6	<1	<0.2
1234114	Rock	0.023	4	7	6.50	892	0.011	<20	0.29	0.018	0.11	<0.1	0.02	<0.1	0.06	1.7	<0.5	<1	<0.2
1234115	Rock	0.008	<1	3	0.04	481	<0.001	<20	0.22	0.002	0.12	<0.1	0.05	<0.1	0.42	0.8	0.8	<1	<0.2
1234116	Rock	0.004	1	14	0.09	237	<0.001	<20	0.10	0.004	0.05	<0.1	0.10	<0.1	0.34	0.5	0.6	<1	<0.2
1234117	Rock	0.010	3	3	0.03	138	<0.001	<20	0.12	0.003	0.04	<0.1	0.02	<0.1	<0.05	0.5	<0.5	<1	<0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1234118	Rock	1.03	5	0.7	5.4	3.7	28	<0.1	7.7	2.3	345	1.70	2.2	<0.5	1.8	359	0.2	0.3	<0.1	16
1234119	Rock	1.06	3	0.3	27.5	1.8	26	0.1	17.6	2.3	80	0.57	0.6	<0.5	0.4	9	<0.1	0.2	<0.1	6
1234120	Rock	0.96	3	0.7	19.9	4.7	28	<0.1	11.5	6.0	6783	6.54	30.3	2.2	1.9	786	<0.1	0.4	<0.1	5
1234121	Rock	0.78	<2	0.1	11.6	2.0	16	<0.1	10.5	3.2	278	0.82	<0.5	<0.5	0.4	10	<0.1	<0.1	<0.1	3
1234122	Rock	0.60	<2	0.1	45.3	2.7	26	<0.1	7.5	2.6	75	1.11	0.5	<0.5	4.2	16	<0.1	<0.1	0.2	9
1234123	Rock	0.66	<2	0.2	19.3	1.1	18	<0.1	9.2	1.5	78	0.59	8.6	<0.5	0.2	3	<0.1	0.4	<0.1	3
1234124	Rock	0.75	3	<0.1	20.4	1.0	17	<0.1	8.3	2.4	343	0.60	2.7	0.6	0.7	9	<0.1	0.3	<0.1	3
1234125	Rock	0.70	<2	0.2	22.3	1.1	19	<0.1	10.3	2.9	309	0.74	6.1	<0.5	0.2	2	<0.1	0.5	<0.1	5
1234126	Rock	0.91	<2	0.1	10.1	2.8	17	<0.1	12.4	5.3	3941	3.39	0.6	<0.5	1.8	1304	<0.1	0.2	<0.1	5
1234127	Rock	0.74	14	0.4	33.7	2.2	23	<0.1	7.9	1.6	34	0.68	11.6	5.5	0.3	10	<0.1	0.8	<0.1	3
1234128	Rock	0.68	<2	0.3	12.8	1.1	17	<0.1	8.0	2.7	283	0.64	<0.5	2.2	0.3	10	<0.1	<0.1	<0.1	5
1234129	Rock	0.81	2	<0.1	8.6	1.0	16	<0.1	3.4	1.7	259	0.70	<0.5	1.2	1.0	539	<0.1	0.1	<0.1	20
1234130	Rock	0.67	<2	0.3	23.8	2.2	15	<0.1	8.1	3.0	87	0.60	1.0	2.0	0.5	3	<0.1	0.2	<0.1	4
1234131	Rock	0.49	9	1.0	19.2	7.7	58	0.6	22.0	7.2	550	2.19	4.3	2.9	5.4	92	0.9	1.0	<0.1	52
1234132	Rock	0.67	<2	0.2	14.6	1.9	10	<0.1	6.2	2.8	153	0.55	0.9	1.8	0.3	3	<0.1	<0.1	<0.1	3
1234133	Rock	0.82	2	<0.1	25.2	3.3	18	<0.1	11.7	3.2	99	0.81	0.8	3.1	0.9	6	<0.1	0.2	<0.1	5
1234134	Rock	0.65	<2	0.2	4.5	0.2	18	<0.1	4.7	1.2	102	0.46	1.9	1.3	<0.1	2	<0.1	<0.1	<0.1	<2
1234135	Rock	0.98	<2	0.3	10.5	2.0	45	0.1	8.7	2.8	705	1.69	1.3	1.2	1.8	258	0.3	0.2	<0.1	36
1234136	Rock	0.72	<2	0.2	6.6	0.2	2	<0.1	3.1	0.6	138	0.45	<0.5	<0.5	0.1	<1	<0.1	<0.1	<0.1	<2
1234137	Rock	1.06	6	0.3	25.8	5.9	12	0.1	20.8	1.5	62	1.33	3.1	4.4	1.4	16	<0.1	0.6	0.2	18



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Part 2

CERTIFICATE OF ANALYSIS

WHI11001575.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
1234118	Rock	0.071	20	7	3.45	328	0.002	<20	0.83	0.007	0.03	<0.1	0.04	<0.1	0.39	1.8	1.5	2
1234119	Rock	0.005	3	4	0.07	201	<0.001	<20	0.14	0.004	0.04	<0.1	0.04	<0.1	0.16	0.4	<0.5	<1
1234120	Rock	0.013	35	4	3.97	815	<0.001	<20	0.46	0.006	0.15	<0.1	0.05	<0.1	0.25	3.1	<0.5	<1
1234121	Rock	0.008	2	2	0.09	143	<0.001	<20	0.14	0.002	0.05	<0.1	<0.01	<0.1	<0.05	1.0	<0.5	<1
1234122	Rock	0.013	11	9	0.27	332	0.003	<20	0.89	0.009	0.31	<0.1	<0.01	<0.1	0.08	2.4	<0.5	3
1234123	Rock	0.004	2	2	0.01	101	<0.001	<20	0.09	<0.001	0.04	<0.1	0.02	<0.1	<0.05	0.5	<0.5	<1
1234124	Rock	0.008	<1	10	0.02	162	<0.001	<20	0.13	0.001	0.05	<0.1	0.02	<0.1	<0.05	1.9	<0.5	<1
1234125	Rock	0.004	<1	3	0.01	85	<0.001	<20	0.12	<0.001	0.04	<0.1	0.03	<0.1	<0.05	1.2	<0.5	<1
1234126	Rock	0.011	15	4	5.78	2016	<0.001	<20	0.24	0.010	0.16	<0.1	0.01	<0.1	0.06	2.1	<0.5	<1
1234127	Rock	0.008	2	2	<0.01	456	<0.001	<20	0.12	<0.001	0.05	0.1	0.06	<0.1	<0.05	0.5	<0.5	<1
1234128	Rock	0.005	2	5	0.19	74	<0.001	<20	0.25	0.001	0.03	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1
1234129	Rock	0.031	11	7	1.82	262	0.002	<20	0.70	0.003	0.03	<0.1	0.01	<0.1	<0.05	1.1	<0.5	2
1234130	Rock	0.006	3	4	0.05	75	<0.001	<20	0.17	<0.001	0.04	<0.1	<0.01	<0.1	<0.05	0.6	<0.5	<1
1234131	Rock	0.127	22	21	2.97	138	0.007	<20	1.58	0.008	0.14	<0.1	0.15	<0.1	<0.05	2.7	<0.5	5
1234132	Rock	0.003	2	3	0.07	76	<0.001	<20	0.13	<0.001	0.02	0.2	<0.01	<0.1	<0.05	0.3	<0.5	<1
1234133	Rock	0.009	7	14	0.09	101	<0.001	<20	0.16	<0.001	0.04	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	<1
1234134	Rock	0.005	<1	1	<0.01	21	<0.001	<20	0.07	<0.001	0.01	0.2	<0.01	<0.1	<0.05	0.5	<0.5	<1
1234135	Rock	0.084	12	10	5.82	234	0.002	<20	1.04	0.005	0.03	<0.1	<0.01	<0.1	<0.05	1.4	<0.5	3
1234136	Rock	0.002	<1	1	<0.01	25	<0.001	<20	0.10	<0.001	0.01	0.2	<0.01	<0.1	<0.05	0.3	<0.5	<1
1234137	Rock	0.036	9	16	0.20	69	0.001	<20	0.58	<0.001	0.04	<0.1	0.02	<0.1	<0.05	1.6	<0.5	2



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Part 1

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
Pulp Duplicates																				
1234018	Rock	0.78	<2	0.2	29.1	3.5	35	<0.1	19.5	4.7	201	1.12	1.2	0.6	0.8	12	0.4	<0.1	<0.1	6
REP 1234018	QC		<2	0.2	29.4	3.5	34	<0.1	18.9	4.6	201	1.12	1.5	1.6	0.8	12	0.3	<0.1	<0.1	5
1234102	Rock	1.45	<2	0.1	17.0	1.2	15	<0.1	8.0	2.8	748	0.87	0.7	<0.5	0.2	3	<0.1	<0.1	<0.1	3
REP 1234102	QC			0.1	17.0	1.2	15	<0.1	8.1	2.6	744	0.86	0.7	<0.5	0.2	3	<0.1	<0.1	<0.1	3
1234105	Rock	0.75	2	0.7	11.8	3.2	10	0.1	3.5	0.8	32	0.83	3.3	<0.5	0.3	4	0.1	0.5	<0.1	5
REP 1234105	QC		<2																	
1234129	Rock	0.81	2	<0.1	8.6	1.0	16	<0.1	3.4	1.7	259	0.70	<0.5	1.2	1.0	539	<0.1	0.1	<0.1	20
REP 1234129	QC		<2																	
Core Reject Duplicates																				
1234028	Rock	0.82	4	0.2	47.7	7.5	97	0.4	35.2	8.3	272	2.32	1.4	0.7	1.7	53	0.1	0.2	0.2	23
DUP 1234028	QC		3	0.2	49.4	7.7	94	0.4	38.5	8.8	283	2.41	1.5	<0.5	1.8	55	0.1	0.2	0.2	25
1234120	Rock	0.96	3	0.7	19.9	4.7	28	<0.1	11.5	6.0	6783	6.54	30.3	2.2	1.9	786	<0.1	0.4	<0.1	5
DUP 1234120	QC		3	0.9	19.5	4.6	27	<0.1	12.1	6.2	7058	6.54	29.5	1.3	1.8	816	<0.1	0.5	<0.1	5
Reference Materials																				
STD DS8	Standard			14.1	111.0	116.6	300	1.6	39.8	7.7	597	2.50	23.4	92.5	7.6	67	2.0	5.0	6.7	41
STD DS8	Standard			12.9	115.2	129.1	319	1.7	40.8	7.9	615	2.50	25.4	104.1	7.5	73	2.3	5.0	7.3	42
STD DS8	Standard			13.5	110.2	123.8	306	2.0	36.6	7.5	608	2.44	26.3	110.4	6.7	70	2.3	5.1	7.1	40
STD OREAS45CA	Standard			1.0	549.4	21.9	65	0.3	277.2	100.0	1002	18.73	4.1	45.2	8.2	12	0.1	<0.1	0.2	222
STD OREAS45CA	Standard			0.9	521.9	20.3	63	0.3	263.4	85.5	945	14.95	3.9	47.7	7.4	14	0.1	0.2	0.2	212
STD OREAS45CA	Standard			0.9	514.3	20.1	65	0.3	256.8	90.8	947	14.92	4.1	37.8	7.0	15	<0.1	0.1	0.2	209
STD OXC88	Standard		207																	
STD OXC88	Standard		214																	
STD OXC88	Standard		189																	
STD OXC88	Standard		194																	
STD OXH82	Standard		1247																	
STD OXH82	Standard		1306																	
STD OXH82	Standard		1295																	
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1



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QUALITY CONTROL REPORT

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Method		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
Pulp Duplicates																		
1234018	Rock	0.018	4	16	0.08	292	0.001	<20	0.23	0.004	0.08	<0.1	0.02	<0.1	<0.05	1.4	<0.5	<1
REP 1234018	QC	0.017	3	14	0.08	289	<0.001	<20	0.23	0.005	0.07	<0.1	0.02	<0.1	<0.05	1.4	<0.5	<1
1234102	Rock	0.009	<1	2	0.01	85	<0.001	<20	0.12	<0.001	0.04	<0.1	0.01	<0.1	<0.05	1.2	<0.5	<1
REP 1234102	QC	0.009	<1	2	0.01	86	<0.001	<20	0.12	<0.001	0.04	<0.1	<0.01	<0.1	<0.05	1.2	<0.5	<1
1234105	Rock	0.005	<1	14	0.08	975	<0.001	<20	0.22	<0.001	0.06	<0.1	0.03	<0.1	0.11	0.5	<0.5	<1
REP 1234105	QC																	
1234129	Rock	0.031	11	7	1.82	262	0.002	<20	0.70	0.003	0.03	<0.1	0.01	<0.1	<0.05	1.1	<0.5	2
REP 1234129	QC																	
Core Reject Duplicates																		
1234028	Rock	0.028	7	20	0.95	318	0.002	<20	0.91	0.003	0.20	<0.1	0.13	<0.1	0.78	4.1	0.6	2
DUP 1234028	QC	0.027	8	22	0.98	357	0.003	<20	0.98	0.004	0.23	<0.1	0.13	<0.1	0.81	4.2	<0.5	3
1234120	Rock	0.013	35	4	3.97	815	<0.001	<20	0.46	0.006	0.15	<0.1	0.05	<0.1	0.25	3.1	<0.5	<1
DUP 1234120	QC	0.013	33	5	4.02	798	<0.001	<20	0.46	0.006	0.16	<0.1	0.03	<0.1	0.24	3.3	<0.5	<1
Reference Materials																		
STD DS8	Standard	0.075	14	118	0.59	274	0.114	<20	0.90	0.090	0.42	2.6	0.20	4.7	0.16	2.1	4.8	4
STD DS8	Standard	0.081	16	119	0.62	287	0.117	<20	0.94	0.091	0.42	2.5	0.19	5.4	0.16	2.2	4.6	5
STD DS8	Standard	0.078	15	115	0.62	305	0.115	<20	0.97	0.102	0.43	2.4	0.18	5.5	0.16	2.0	5.2	4
STD OREAS45CA	Standard	0.038	17	712	0.17	163	0.150	<20	4.16	0.009	0.08	<0.1	0.03	<0.1	<0.05	41.3	0.5	19
STD OREAS45CA	Standard	0.037	16	633	0.17	159	0.146	<20	3.92	0.008	0.07	<0.1	0.04	<0.1	<0.05	39.2	0.5	19
STD OREAS45CA	Standard	0.039	16	660	0.14	164	0.142	<20	3.75	0.008	0.07	<0.1	0.02	<0.1	<0.05	37.1	<0.5	18
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXH82	Standard																	
STD OXH82	Standard																	
STD OXH82	Standard																	
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	5.4	0.1679	2.3	5.23	4.7



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Part 1

QUALITY CONTROL REPORT

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		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
G1	Prep Blank		<2	<0.1	2.5	3.3	43	<0.1	3.0	3.8	524	1.88	0.5	2.2	5.6	60	<0.1	0.3	0.1	36	0.48
G1	Prep Blank		<2	0.1	2.0	3.2	43	<0.1	2.4	3.9	530	1.88	<0.5	2.8	5.3	53	<0.1	0.1	<0.1	35	0.48



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QUALITY CONTROL REPORT

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		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4	
STD OXC88 Expected																			
STD OXH82 Expected																			
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
G1	Prep Blank	0.074	11	4	0.49	158	0.118	<20	0.87	0.073	0.50	<0.1	0.01	0.2	<0.05	1.9	<0.5	4	<0.2
G1	Prep Blank	0.075	10	6	0.50	147	0.119	<20	0.84	0.072	0.47	<0.1	0.02	0.2	<0.05	1.7	<0.5	4	<0.2