

# **2014 Soil and Rock Geochemical Survey of the Yellow Claim Block**

**Yellow Group HD03161**

**Dawson Mining District, Yukon Territory**

**NTS Map Sheet 1150 05,  
UTM NAD 83 Zone 7N: 570000E/7018900N**

Dates of fieldwork performed: June 8 and August 7 to 10 2014

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Prepared for: Kinross Gold Corporation  
and Selene Holding LP

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Date of Report: May 22, 2015

## **Summary**

The metamorphic rocks at the Yellow claim block are interpreted to be the northward continuation along strike of the rock package which hosts the Golden Saddle deposit on the White Gold property. The Yellow claims were staked in 2009 by Underworld Resources because of this lithological similarity. Underworld completed preliminary ridge-and-spur soil sampling and geologic mapping across the property, but failed to identify any significant zones of gold mineralization. Subsequent to acquiring Underworld, Kinross conducted an airborne magnetic and radiometric survey over the property in 2010, a stream sediment sampling and prospecting program in 2011 and a ridge and spur soil sampling program in 2012. In 2013 soil sampling program was conducted on a grid. Additional soil sampling was conducted in 2014. Rock-chip sampling was also conducted in 2014. A total of 161 soil and 46 rock-chip samples were collected and analyzed for gold and other elements.

Thus far, no zones of significant gold mineralization are known to occur at Yellow. However, a zone of anomalous Au and pathfinders elements is present within the felsic augen gneiss and felsic gneiss similar to the anomalies detected at the Golden Saddle deposit.

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## 1.0 Introduction

This report summarizes geological and geochemical work conducted in 2013 by Ground Truth Exploration on the behalf of Kinross on the Yellow claim block in the Dawson Mining District, Yukon Territory. The 2014 program was intended as reconnaissance to evaluate the potential of this claim block to host Golden Saddle-style mineralization. Golden Saddle is a nearby structurally-controlled gold deposit hosted in metamorphic rocks similar to those identified at the Yellow claim block. Field work in 2013 consisted of a gridded soil sampling. A total of 207 samples were collected. In 2014, additional soil sampling and rock-chip samples were conducted by Ground Truth Exploration and Kinross Gold geologists, respectively. A total of 161 soil samples were collected and 46 rock-chip samples were collected.

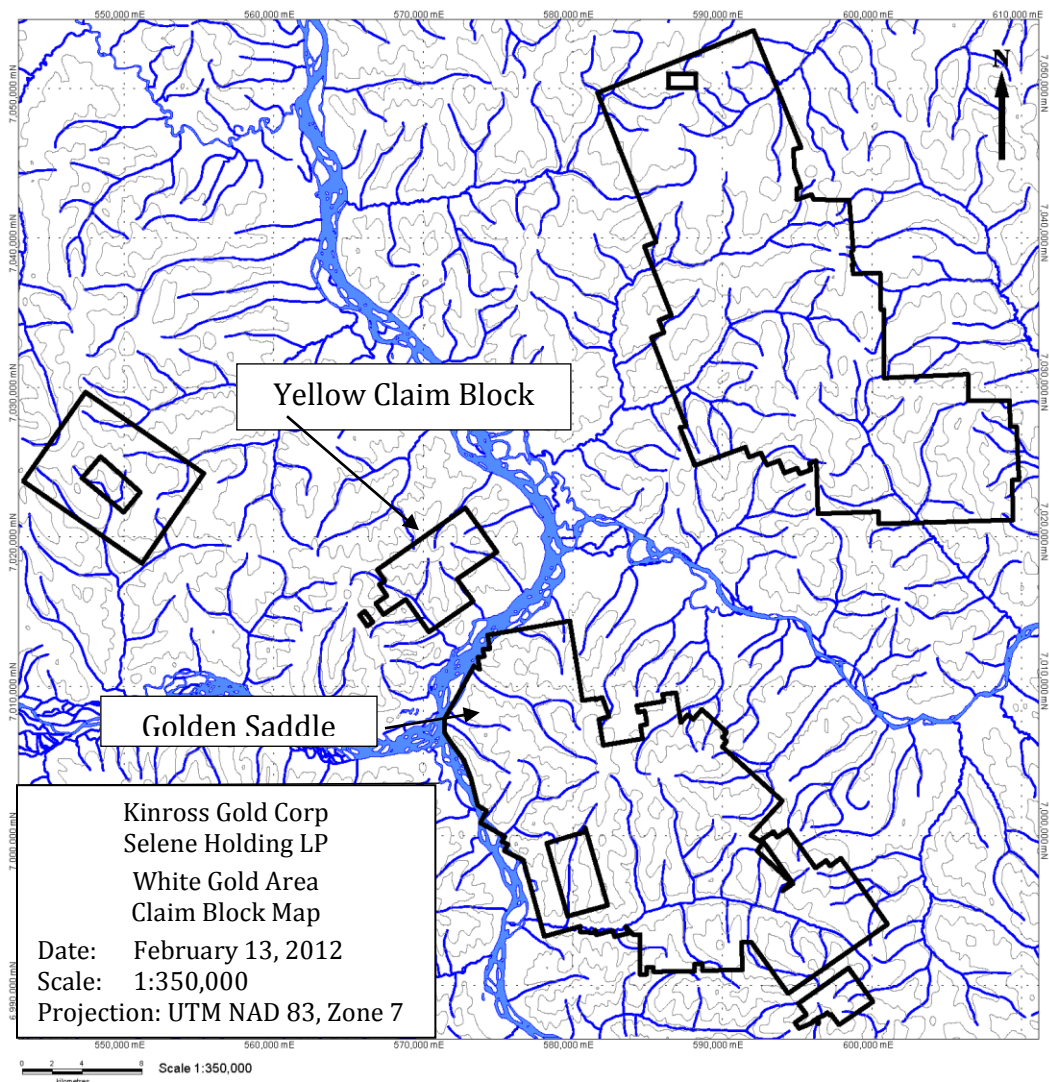
### 1.1 Location, Access, and Physiography

The Yellow claim block is located near the junction between the White and Yukon Rivers. The claims are located approximately 25 km northwest from the Green Gulch camp on Thistle Creek, and approximately 75 km south of Dawson City.

During the 2014 season the Yellow area was only accessible by helicopter. The high E-W ridge in the northern part of the property is fairly accessible by helicopter, while the lower ridges, slopes and valleys have very few suitable landing sites. Helicopter landing zones were cleared at a few sites to facilitate the program.

The Yellow claim block consists of rolling tree-covered hills with some recently burned areas. Significant rock outcrop at Yellow is limited to the high E-W trending ridge in the northern part of the property. Lower ridges and saddles on the property typically have only minor sub cropping rock exposure. Throughout the property, there is a significant difference in soil development and vegetation between the north- and south-facing slopes. North-facing slopes typically have poorly developed soil horizons and more extensive zones of near-surface permafrost.

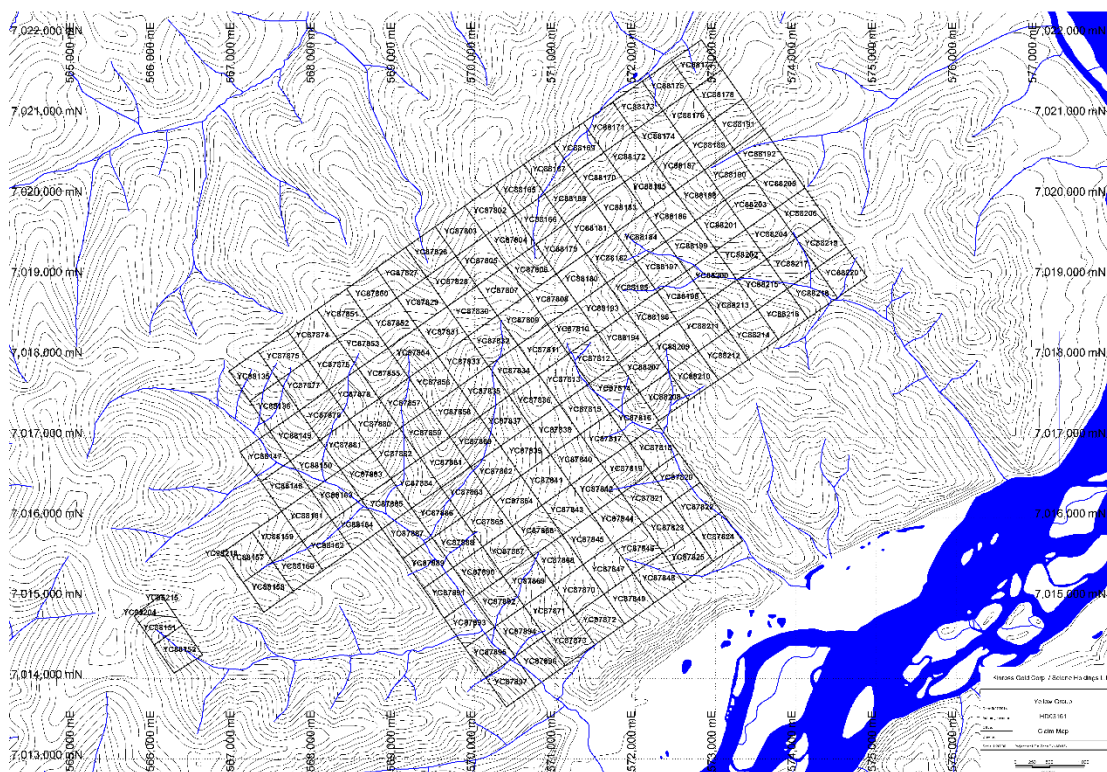




**Figure 1: Map showing the location of Kinross claim groups in the White Gold Area.**

## 1.2 Property

The Yellow claim block consists of 166 mineral claims covering an area of approximately 34.7 km<sup>2</sup>. The claims form a roughly rectangular shape 8.6 by 5.4 kilometres wide.



**Figure 2: Claim Map, Yellow Group.**

## 1.3 Historical Work

The earliest documented exploration work in the Yellow area occurred during the initial Klondike Gold Rush. During 1898 and 1900 claims were staked on Shamrock Creek, located in the south-western part of the property (Doherty and Ash, 2005). No recent historical exploration or placer mining is known to have occurred on the Yellow claims prior to the staking and soil sampling conducted by Underworld in 2009.

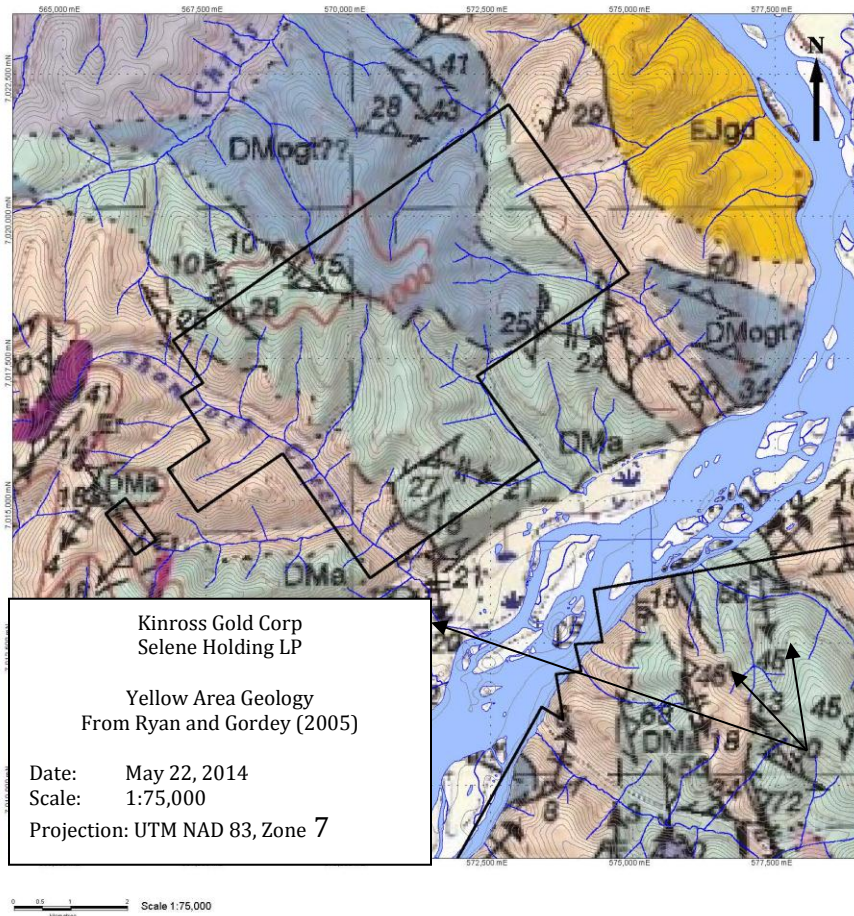
The geology of the Yellow area was mapped by the Geological Survey of Canada as part of the Stewart River map area (Ryan and Gordey, 2005). This mapping describes the Yellow claims as comprising Devonian to Mississippian quartz-mica schist, amphibolite, and orthogneiss (Figure 3). Paleozoic ultramafic rocks and Jurassic and Cretaceous intrusive rocks are also mapped near the Yellow claims. Most of the lithologic contacts at

Yellow were mapped as approximate or assumed by the Geological Survey of Canada mapping.

The Yellow claims were staked by Underworld in 2009 because of their proximity to the White claims and the similarity of mapped rock units to those at White. Initial reconnaissance by Underworld in 2009 consisted of ridge-and-spur soil sampling, a small soil sampling grid, rock chip sampling, and some geologic mapping. This initial work resulted in a few samples containing minor gold-in-soil, but failed to produce a coherent anomaly or target.

Underworld geologists mapped the Yellow area as consisting of metasediment, amphibolite, and felsic orthogneiss, with two small feldspar porphyry units mapped on ridges in the northern part of the claim block. Three zones of sericite-carbonate alteration are also indicated on the 2009 map. These altered zones broadly overlap with weakly anomalous gold values from the initial ridge-and-spur sampling.

Airborne magnetic and radiometric surveys were flown over the Yellow claim block as part of Kinross' 2010 airborne survey. The survey was flown by helicopter with 75 meter line spacing over the entire Yellow claim block. This survey highlighted several notable features, including: 1) a prominent narrow NNW-trending magnetic high, located very close to the feldspar porphyry units mapped in 2009; 2) a circular body approximately 500 meters diameter located in the north-central part of the property with a magnetic signature similar to that of Cretaceous Carmacks igneous rocks (seen at JP Ross and elsewhere in the Yukon); 3) a zone of highly anomalous potassium (and highly anomalous potassium/thorium) in the north-central part of the property that is approximately 1 by 3 km in size; and 4) several linear magnetic features trending NNW and NE. These linear features are interpreted to represent faults.



**Figure 3: Geology of the Yellow Area**, from Ryan and Gorday, 2005. Blue DMOGT = Devonian/Mississippian orthogneiss; Green DMA = Devonian/Mississippian amphibolite; Light pink DMps = Devonian/Mississippian quartz mica schist; Orange EJgd = Jurassic granodiorite; Pink Kg = Cretaceous granite; Purple Er = Eocene rhyolite porphyry dike.

## 2.0 2013 Geochemical Reconnaissance Program

The 2013 program at Yellow was intended as reconnaissance to evaluate the potential of this claim block to host Golden Saddle-style mineralization. Field work in the 2013 program consisted of a gridded sampling program. Sampling was collected along 400 meters spaced line and samples were collected every 200 meters. A total, 207 soil samples were collected at Yellow Property during 2013.



The soil sampling program was conducted by Ground Truth Exploration by trained technicians. Auger style soil sampling was conducted using a 1.25 m “Dutch Auger.” Sampling targeted the C Horizon, which consists of rock fragments ideally from the underlying bedrock. Due to terrain, vegetation, and/or soil consistency at some locations, it was not always possible to obtain a sample from the C Horizon. Sample depths ranged from 30 cm to 60cm and had an average of about 40 cm. Soil material was placed into labelled Kraft paper envelopes. At each soil sample location, the sampler ID, location, date, soil colour and sample depth were recorded.

Locations of all samples were determined by a GPS. Coordinates of the samples were input directly to a spreadsheet containing the details of the sample location. At the end of the survey, a spreadsheet containing all soil sample information was imported into the soil master database.

The soil samples were delivered to Acme’s preparatory lab in Dawson City, Yukon. The samples were checked in and then placed in an oven at 60°C until dry. After drying, the sample was sieved using a -80 mesh to procure a 100 g sample. A 15g split of this 100g sample was used for analysis. The Acme Lab 1DX15 package, used by Kinross, analyzes for 37 pathfinder elements. Samples were digested using a hot, 95°C, Aqua Regia digestion process before being analyzed by via ICPMS.

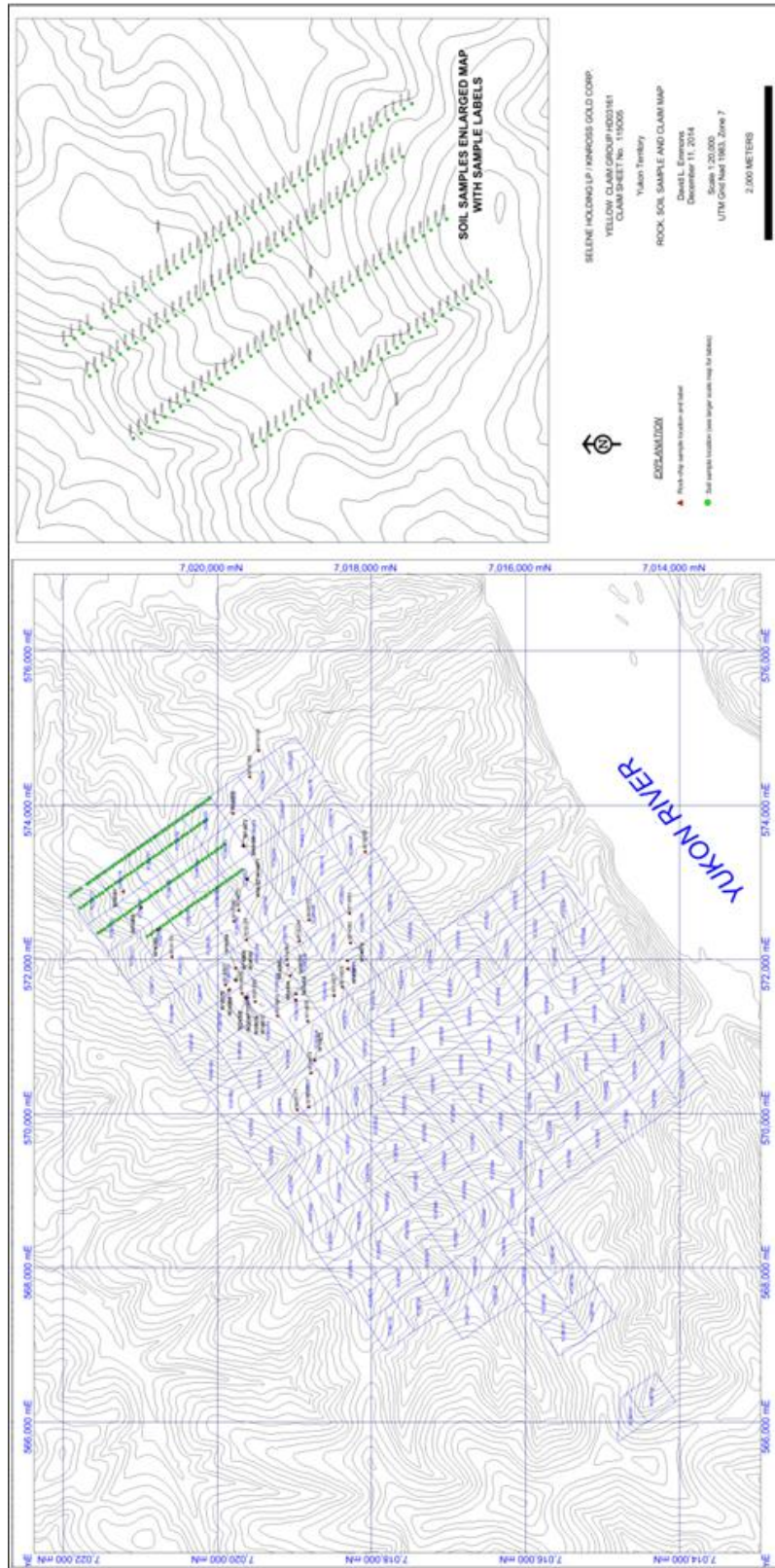
All final analyses were received through email or via the Acme Labs website. Signed certificates were delivered in an Adobe PDF format.

The rock-chip samples were analyzed by ALS Minerals in Reno, Nevada. The samples were delivered to ALS Minerals sample preparation facility in Fairbanks, Alaska. Gold was analyzed by fire assay ICP-AES finish (ALS method Au-ICP22). Multielement (35 elements) were analyzed by ALS Minerals (ALS method ME-ICP41) with an Aqua Regia digestion.

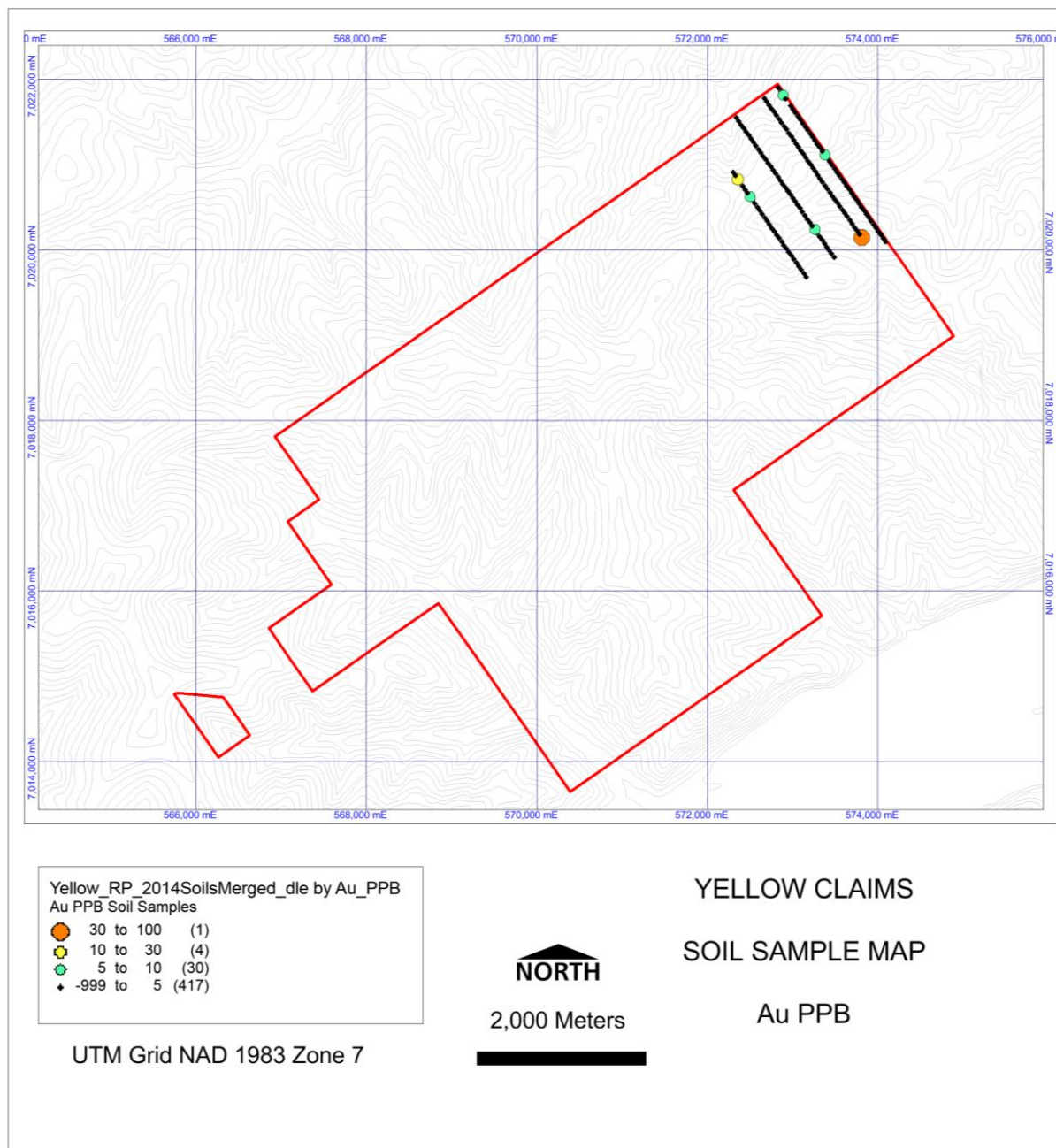
All final analyses were received through email or via the ALS Minerals website. Signed certificates were delivered in an Adobe PDF format.

## 2.1 Soil Geochemistry Survey.

Gold assay results from the 2014 soil sampling program returned a range of values from <0.5 to 33.4 ppb. Nevertheless, thematic plot of the gold data showed some weak cluster of gold in soil anomalies (Figure 5). The gold in soil anomalies seems to be preferentially associated with the felsic gneiss near the contact with the amphibolite unit, while amphibolite and biotite schist contains relatively lower values.



**Figure 4: 2014 Soil and Rock Sample Location Map**



**Figure 5: Gold in soil anomalies 2014 samples.**



## 2.2 Rock-chip Geochemical Survey.

Results from the 46 rock-chip samples collected in 2014 range from <1 to 33 ppb gold. The sample locations are shown in Figure 6 with a thematic map of the gold values. The samples were collected along ridge and spur sample traverses. The rock-chip samples were collect by David Szumigala and Shawn Colburn, Kinross Gold geologists.

No significant anomalous gold values were detected in the samples.

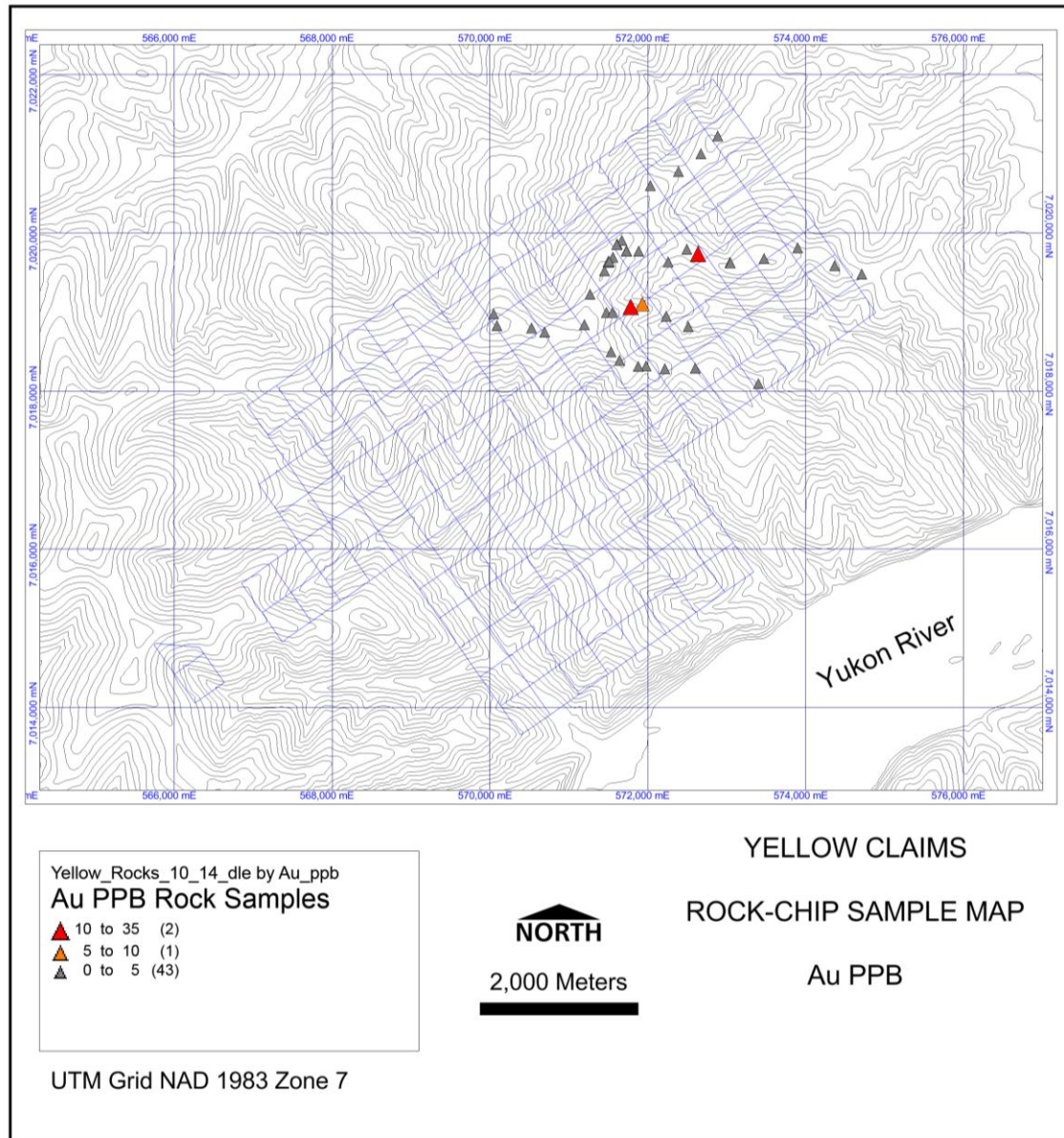


Figure 6: Rock-chip sample map 2014 samples.



### **3.0 Recommendation:**

Based on the results from the 2013 and 2014 soil sampling program and recent (2012) activities to the east of the claim block by Comstock Metals Limited (drill hole VG-12-04:89.85 metres (m) of 2.34 grams/tonne gold press-release 22 October 2012) further field exploration is proposed. Based on limited outcrop on the project area, additional grid soil sampling within the felsic units, and the augen gneiss units should be carried on.

Further surface geochemical sampling will be needed to identify drill targets.

### **4.0 References**

Doherty, R.A., and Ash, C.H., 2005, Report on the White Property, for Madalena Ventures Inc., February 15, 2005.

Ryan, J.J., and Gordey, S.P., 2005, Geology, Stewart River Area (115N, 115O and part of 115J), Yukon Territory, Geological Survey of Canada, Open File 4970, scale 1:250,000.

Paulsen, H.K., Gibson, J., Fleming, A., and King, N., Technical Report on the White Gold Property, Dawson Range, Yukon, for Underworld Resources, February 19, 2010.

Bailey, L., 2011 Geological and Geochemical Reconnaissance Report on the Yellow Claim Block, Dawson Range, Yukon for Kinross Gold Corp. February 13, 2012.

## 5.0 Statement of qualifications.

I, David L. Emmons, hereby certify that:

- I am a professional geologist. I have reviewed the work above mentioned project for Selene Holding LP in 2014 and 2015.
- I have worked in gold exploration of the last 35 years.
- I am a graduate of the San Diego State University, California, USA, Bachelor of Science Degree in Geology, 1974.
- I am a Registered Member of the Society for Mining, Metallurgy, and Exploration Inc. SME Member ID 928600RM

Dated this 22 of May in Reno, Nevada

Respectfully submitted

David L. Emmons

David L. Emmons

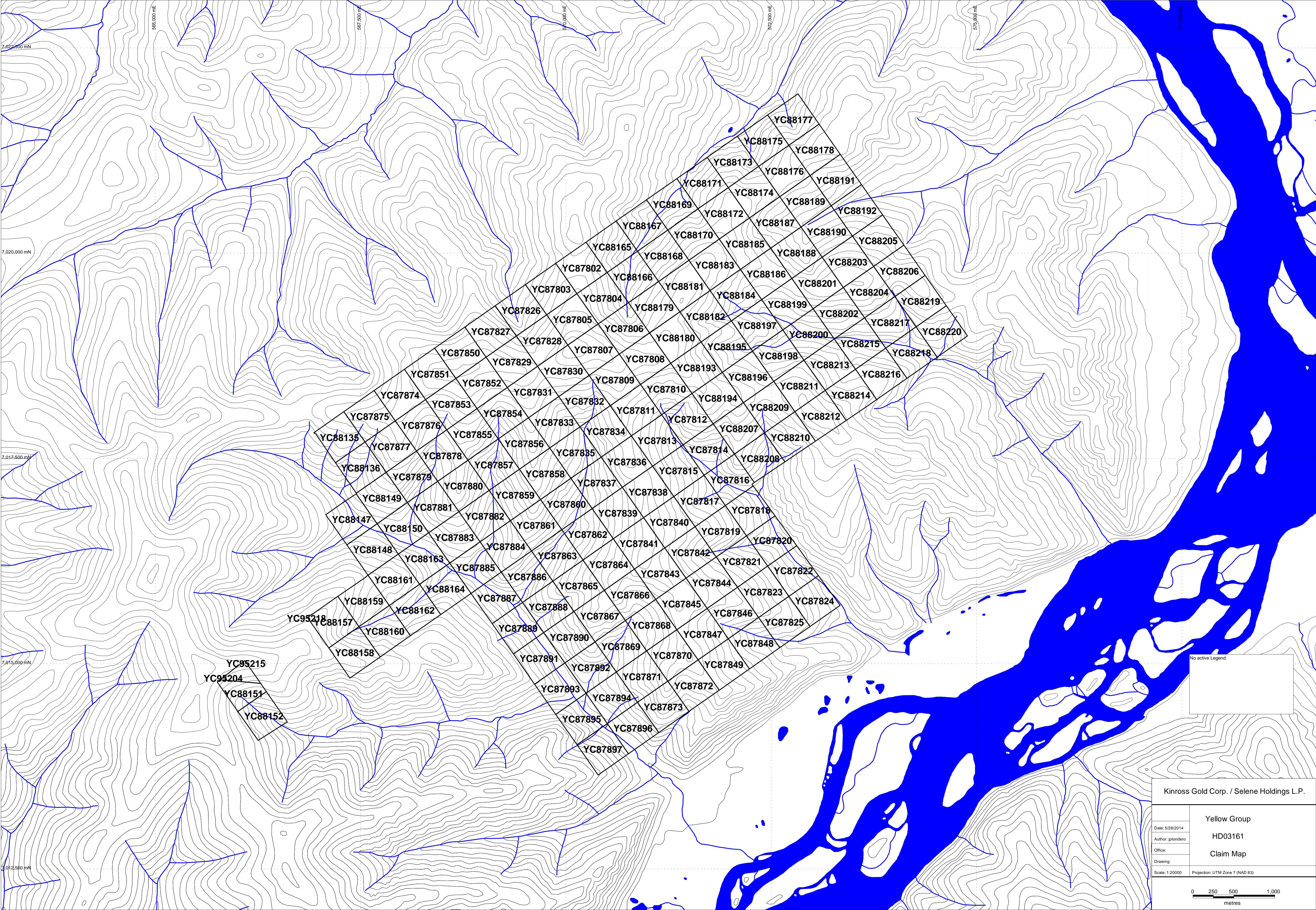


David L. Emmons  
SME Registered Member No. 928600  
Signature David L. Emmons  
Date Signed May 22, 2015  
Expiration date N/A

## **6.0 Appendix:**

### **6.1 Appendix 1: Claim map.**





Kinross Gold Corp. / Selene Holdings L.P.	
Date: 5/28/2014	Yellow Group
Author: jplondero	HD03161
Office:	Claim Map
Drawing:	
Scale: 1:20000	Projection: UTM Zone 7 (NAD 83)
<div> <div>0</div> <div>250</div> <div>500</div> <div>1,000</div> </div> <div>metres</div>	



## 6.2 Appendix 2: List of claims.

### KINROSS GOLD CORP. / SELENE HOLDING LP DAWSON MINING DISTRICT YELLOW GROUP #HD03161

Group	Grant #	Claim Name	Claim Number	Expiry Date	Annual Work Due	Annual Fees Due	Record Date	NTS Map	Mining District	Claim Owner
YELLOW GROUP #HD03161					\$16,600.00	\$830.00				
166 claims										
YELLOW	YC87802	Yellow	1	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87803	Yellow	2	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87804	Yellow	3	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87805	Yellow	4	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87806	Yellow	5	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87807	Yellow	6	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87808	Yellow	7	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87809	Yellow	8	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87810	Yellow	9	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87811	Yellow	10	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87812	Yellow	11	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87813	Yellow	12	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87814	Yellow	13	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87815	Yellow	14	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87816	Yellow	15	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87817	Yellow	16	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87818	Yellow	17	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87819	Yellow	18	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87820	Yellow	19	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87821	Yellow	20	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87822	Yellow	21	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87823	Yellow	22	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87824	Yellow	23	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87825	Yellow	24	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87826	Yellow	25	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87827	Yellow	26	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87828	Yellow	27	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87829	Yellow	28	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87830	Yellow	29	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87831	Yellow	30	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87832	Yellow	31	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87833	Yellow	32	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87834	Yellow	33	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87835	Yellow	34	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87836	Yellow	35	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87837	Yellow	36	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%
YELLOW	YC87838	Yellow	37	15-Feb-2015	\$100.00	\$5.00	18-Jun-2009	115O05	Dawson	Selene Holding LP - 100%

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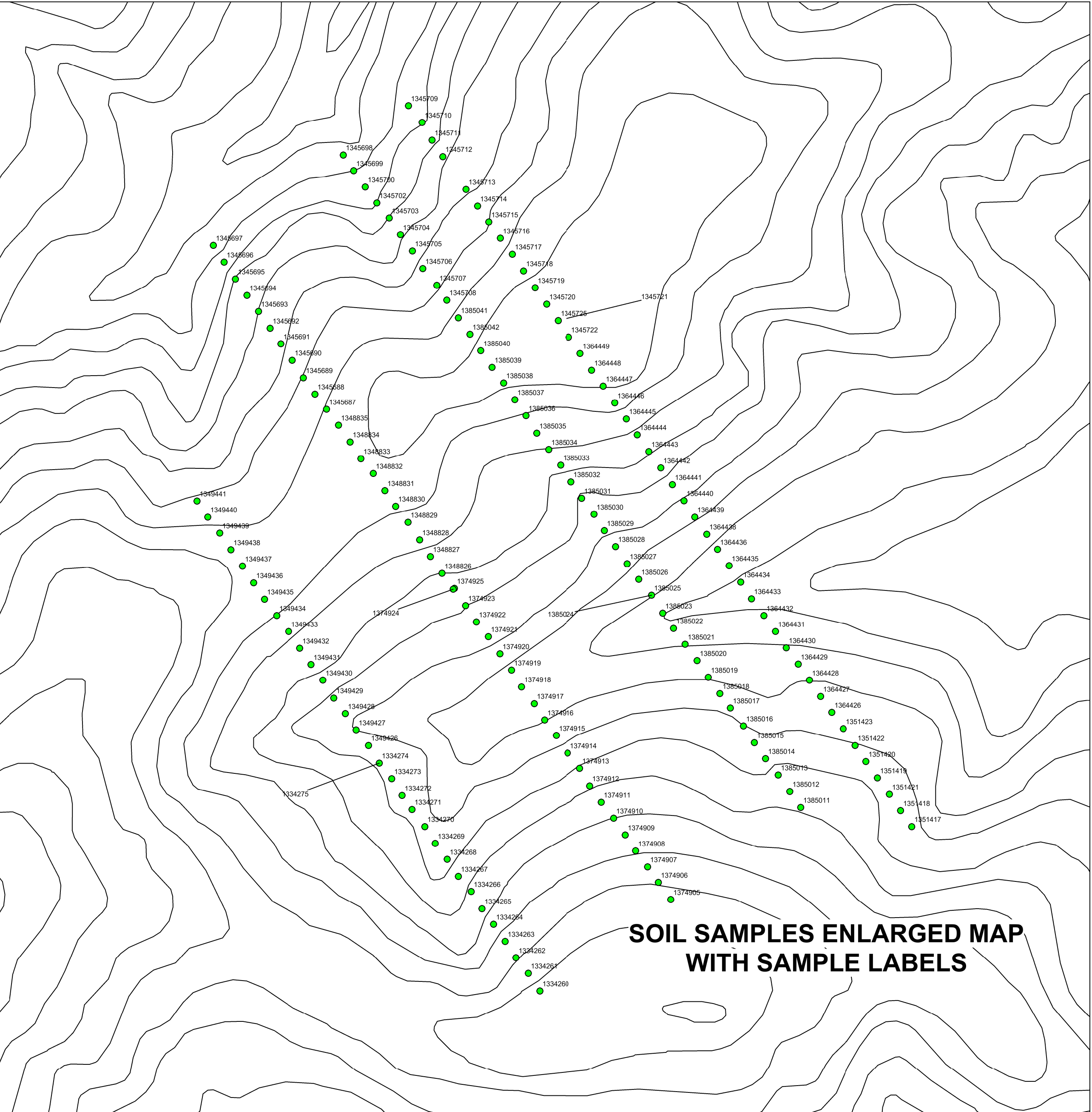
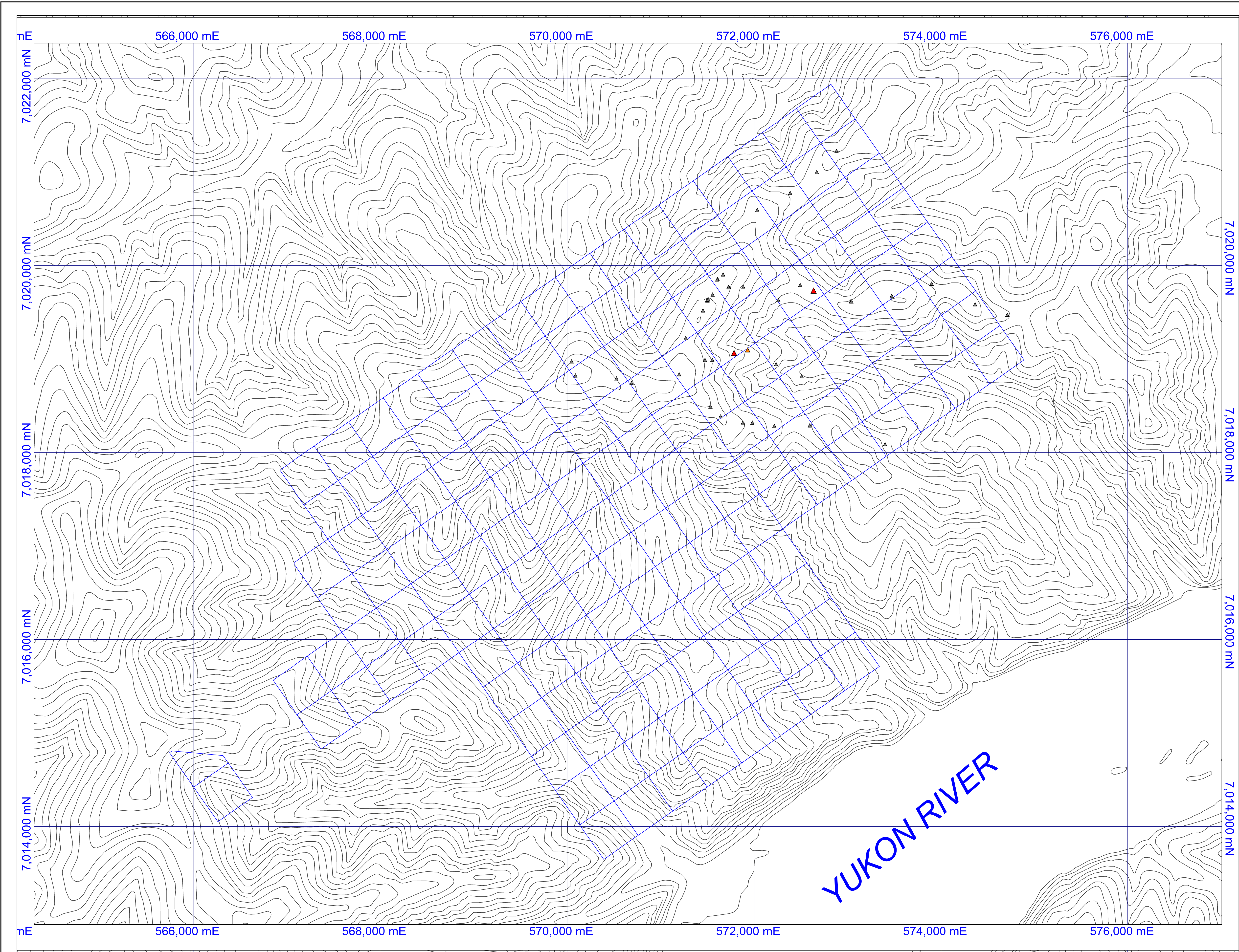
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### 6.3 Appendix 3: Location map, soil and rock sample.





SELENE HOLDING LP / KINROSS GOLD CORP.

YELLOW CLAIM GROUP HD03161  
CLAIM SHEET No. 115005

Yukon Territory

ROCK, SOIL SAMPLE AND CLAIM MAP

David L. Emmons  
December 11, 2014

Scale 1:20,000  
UTM Grid Nad 1983, Zone 7

2,000 METERS



#### 6.4 Appendix 4: Soil and rock samples coordinate and description.

Yellow Rock Sample  
Location, Description and Assays

sample	prospect	sampler	Date	elev_m	datum	e	n	East_utm_nad83z7	North_utm_nad83z7	sampletype	type	source	width	width_unit	lith	description
W14843	Yellow	SMC	Aug-7-2014	1017	WGS84	-139.5785	63.2948	571,270	7,019,226	Rock	sg	f	5	in	Qvn	Select grab of 8in x 6in x 5in massive white quartz vein. Weak FeOx along fractures. Quartz is anhedral and white. Hosted in a quartzite that is weakly micaceous. Sample taken in small opening with caribou moss.
W14844	Yellow	SMC	Aug-7-2014	998	WGS84	-139.5745	63.29266	571,475	7,018,991	Rock	sg	f	3	in	Qvn	Select grab of 3in x 4in x 5in quartz piece in an area of caribou moss. Quartz vein alternates from white opaque to black opaque in irregular bands, very weak FeOx along fractures. Sample in semi-schist, very micaceous quartzite that is dark.
W14845	yellow	SMC	Aug-7-2014	903	WGS84	-139.5683	63.29326	571,788	7,019,065	Rock	sg	f	3	in	Qvn	Select grab of 3in x 3in x 4in quartz vein piece dug in an area of caribou moss. Vein is moderately oxidized along fractures. One small fracture contained 1cm wide vug running across vein. Quartz is anhedral, opaque white. Sample from micaceous blue-g
W14864	Yellow	SMC	Aug-7-2014	874	WGS84	-139.5654	63.29353	571,931	7,019,099	Rock	sg	f	2	ft	Qte	Select grab of 3ft x 2ft x 2ft quartzite boulder with strong FeOx fracture fill that ranges from discrete veinlets to a brecciated pattern. FeOx is confined to fractures and not pervasive throughout groundmass. Quartzite is a blue-grey and weakly micace
W14865	Yellow	SMC	Aug-8-2014	998	WGS84	-139.5726	63.29892	571,557	7,019,691	Rock	sg	f	6	in	Qte	Select grab of one large 3ft x 1.5ft x 0.5ft weakly foliated micaceous quartzite with 0.5% tarnished pyrite. Cobble cut by 1/4 in quartz vein with moderate FeOx and few vugs filled with earths. Sample has weak FeOx along fractures.
W14866	yellow	SMC	Aug-8-2014	994	WGS84	-139.5715	63.30043	571,609	7,019,860	Rock	sg	r	4	in	Qvn	Select grab of 4in foliation parallel quartz vein found in rubble near schist outcrop. Foliation 325/45 (right hand rule) in outcrop. Quartz massive anhedral, opaque white. Trace FeOx along select fracture surfaces. Schist is a quartz mica schist.
W14867	Yellow	SMC	Aug-8-2014	994	WGS84	-139.5703	63.30083	571,668	7,019,907	Rock	sg	b	0.5	in	Qvn	Select grab of foliation parallel quartz vein in micaceous quartzite. massive translucent anhedral quartz vein 0.5in to 2in wide. One stringer contains biotite. Veins typically contain very weak FeOx. Quartzite locally colored red by fire. Foliation
W14868	Yellow	SMC	Aug-8-2014	813	WGS84	-139.5498	63.31045	572,673	7,021,001	Rock	sg	f	2	in	Qvn	Select grab of quartz vein from 14in deep soil hole at base of a fallen tree. Veins are translucent to opaque with varying amounts of feldspar. Most pieces contain moderate FeOx, few have trace. FeOx concentrated along fractures. Largest piece is 2in
W14869	Yellow	smc	Aug-9-2014	972	WGS84	-139.5691	63.29963	571,728	7,019,774	Rock	sg	f	0		Qvn	Select grab of quartz vein dug out of soil in area of intrusive and quartzite float. One piece contained few pyrite cubes. Very weak FeOx along fractures. Translucent anhedral quartz. Very small sample. Only 2.5% of pieces in soil were quartz.
W14870	Yellow	smc	Aug-9-2014	842	WGS84	-139.551	63.29907	572,639	7,019,733	Rock	rg	f	0		Qte	Representative grab of 2 ft x 1 ft x 8 in black quartzite boulder found in game trail. One side of boulder is covered in slickensides. Sample cut by numerous veinlets with quartz and minor FeOx. FeOx occurs also as a fracture coating of moderate intens
W14871	Yellow	smc	Aug-9-2014	859	WGS84	-139.5431	63.298	573,038	7,019,622	Rock	sg	f	0		Qvn	Select grab of foliation parallel Qvns dug from 1.5 ft deep soil hole at LZ. Quartz is opaque white and massive. One piece had micaceous stringer within core of the vein.
W14872	Yellow	smc	Aug-9-2014	874	WGS84	-139.5344	63.2984	573,473	7,019,676	Rock	sg	f	0		Qvn	Select grab of Qvn dug from an area of caribou moss and felsic intrusive. Sample on top of knob. Quartz is very translucent and massive, rare minor FeOx along fractures. Quartz is approximately 1% of rock from soil pits. Very small sample.
W14873	Yellow	smc	Aug-9-2014	798	WGS84	-139.5258	63.2995	573,899	7,019,809	Rock	sg	f	0		Qvn	Select grab of 6in x 4in x 4in quartz vein. Quartz is banded with alternating translucent and darker bands with sporadic feldspar. Blebs of pyrite and pyrrhotite throughout piece. Sample in hole with schist and felsic intrusive.
W14874	Yellow	SMC	Aug-10-2014	1111	WGS84	-139.5935	63.29109	570,527	7,018,795	Rock	sg	f	1	in	Qvn	Select grab of 1in quartz vein in quartzite. Quartz vein has translucent core with a finer-grained buff quartz margin 0.5mm wide. Some open space cavaties parallel to margin with a dark brown earth fill. Quartzite is slightly micaceous and lightly gray
W14875	Yellow	SMC	Aug-10-2014	1096	WGS84	-139.5903	63.29061	570,691	7,018,745	Rock	sg	f	6	in	Qvn	Select grab of opaque white anhedral quartz cobble (6in x 7in x 10in). No wall rock attached to quartz, float in the area is a micaceous quartzite. One oxidized pyrite cube present in quartz. Sample contains open space fractures and vugs aligned transv
W14876	Yellow	SMC	Aug-10-2014	1059	WGS84	-139.5801	63.29134	571,199	7,018,838	Rock	sg	b	1.5	in	Qvn	Select grab of foliation parallel quartz vein 1.5in wide. Outcrop of dark-gray semi-schist to fine-grained gneiss(?). Foliation 045/20 to 060/20 (right hand rule). Lith sample of gneiss collected. Quartz translucent white with very minor FeOx. One pi
W14877	Yellow	SMC	Aug-10-2014	999	WGS84	-139.5736	63.28817	571,534	7,018,493	Rock	sg	f	2.5	in	Qvn	Select grab of 2.5in quartz vein in plate biotite semi-schist. Quartz is opaque white with open space fractures slightly discordant to vein. Fractures filled with moderate FeOx. Quartz is anhedral, opaque white. Hand sample of lithology collected.
W14878	Yellow	SMC	Aug-10-2014	984	WGS84	-139.5715	63.2872	571,641	7,018,387	Rock	sg	f	0		Qvn	Select grab of small quartz vein chips dug out from downed tree's root ball. Opaque white anhedral. Float is a biotite semi-schist. Small sample. Hand sample of lithology collected.
W14879	Yellow	SMC	Aug-10-2014	932	WGS84	-139.5647	63.28653	571,981	7,018,320	Rock	sg	f	0		Qvn	Select grab of quartz vein dug out from root ball of downed tree. opaque white, anhedral quartz. Sample hosted in a quartzite.
W14880	Yellow	smc	Aug-10-2014	905	WGS84	-139.5601	63.28616	572,216	7,018,284	Rock	sg	f	0.5	in	Qvn	Select grab of quartz vein dug out from steep drop in slope. Host rock float is a chloritized-amphibole-biotite schist and gneiss. Quartz is opaque white anheral. Pieces average 0.5in thick. hand sample of gneiss collected.
W14881	Yellow	SMC	Aug-10-2014	889	WGS84	-139.5525	63.28614	572,598	7,018,290	Rock	sg	f	0		Qvn	Select grab of quartz veins dug from a soil pit with quartz muscovite schist and a possible foliated felsic intrusive. Quartz is translucent with pyrite casts and few remaining tarnished pyrites. Veins look different than others samples on this property
W16173	Yellow	DJS	Aug-7-2014	906	WGS84	-139.5683	63.29327	571,785	7,019,066	Rock	rg	r	4	ft	Qvn	Angular cobbles found beneath reindeer moss on slide slope. Tabular to blocky cobbles. Broken rock is bluish-gray fine-grained micaceous (muscovite) quartzite. Strong FeOx (orange-brown) stain on open space fractures. One foliation parallel white quar
W16174	Yellow	DJS	Aug-7-2014	787	WGS84	-139.5594	63.29211	572,234	7,018,947	Rock	rg	r	3	ft	Dt	Subangular boulders of greenish brown fine-grained plutonic rock. Likely dike. 3ft x 15 ft x ? area of boulders. One pieces - mostly visible feldspar and biotite. Other sample is very fine-grained and no discernible minerals. Biotite phenocrysts. Po
W16175	Yellow	DJS	Aug-7-2014	714	WGS84	-139.5539	63.29088	572,512	7,018,817	Rock	rg	r	10	ft	P	Reindeer moss covered slope with sub angular cobbles of light orange, medium-grained; sericitized quartz-eye porphyry. Quartz eyes are gray <= 1 mm across. In places the rock is schistose. Weak FeOx stain and some pieces with 0.25% fine-grained dissemi
W16176	Yellow	DJS	Aug-7-2014	1169	WGS84	-139.6022	63.29145	570,089	7,018,826	Rock	rg	b	10	cm	Qvn	Outcrop near LZ of biotite schist with foliation paralle white quartz vein. Vein > 10 cm thick. Translucent. Very weak FeOx stains on fractures. Foliation 015/15 (right hand rule). Some of vein has chalky white feldspar crystals along vein margin. H
W16177	Yellow	DJS	Aug-7-2014	1139	WGS84	-139.603	63.2928	570,049	7,018,976	Rock	rg	b	2	cm	Qvn	2.5 cm thick white translucent quartz slightly discordant to micaceous quartzite foliation. Fractures within quartz are FeOx stained orange and brown. Trace amounts of dark brown FeOx casts after pyrite disseminated in vein. Also some orange FeOx stain
W16178	Yellow	DJS	Aug-8-2014	994	WGS84	-139.5715	63.30037	571,606	7,019,854	Rock	rg	b	1	cm	QMS	Foliation 325/45 (right hand rule) in quartz-muscovite schist with 0.5 cm thick foliation parallel quartz veins. Quartz veins are glass, about 1 per meter. Weak FeOx stain overall, generally confined to fractures. Sample is 85% quartz.
W16179	Yellow	DJS	Aug-8-2014	887	WGS84	-139.5627	63.30695	572,033	7,020,596	Rock	rg	r	2	cm	Qvn	Dug hole on flat top of ridge. About 30% of pebble volume is quartz vein. Quartz veins up to 2cm thick. Glassy, translucent massive white quartz. Some fractures with orange FeOx stain. One 5mm thick vein cross-cuts quartz-mica-biotite schist foliatio
W16180	Yellow	DJS	Aug-8-2014	808	WGS84	-139.5555	63.3085	572,389	7,020,777	Rock	rg	r	3	ft	Qte	Dug hole at LZ in burn. Rock at 6 inches. Orange colored soil with much mica. Rock is blocky to platy. Micaceous quartzite. Almost semi-schist. About 25% muscovite and trace 2% black biotite flakes. Weak FeOx stain.
W16181	Yellow	DJS	Aug-8-2014	829	WGS84	-139.5454	63.31245	572,884	7,021,229	Rock	rg	r	4	ft	Qte	Rubble (angular) in reindeer moss. Micaceous (muscovite) quartzite. About 10% muscovite (fine-grained) in fine-grained granular quartzite. Brown color. Orange and brown FeOx stain on all fractures. One white anhedral quartz vein about 1cm thick.
W16182	Yellow	DJS	Aug-9-2014	979	WGS84	-139.5692	63.29958	571,728	7,019,768	Rock	rg	r	3	ft		Dug 6 shallow holes in mixed forest floor. About 10% quartzite, 5% white quartz vein, and 85% fine grained porphyritic quartz-feldspar-biotite (altered to FeOx) felsic igneous rock - possibly granodiorite composition. About 1% disseminated pyrite as wel
W16184	Yellow	DJS	Aug-9-2014	943	WGS84	-139.566	63.29956	571,885	7,019,770	Rock	rg	r	2	cm	Qvn	Dug 3 holes in mixed forest. Rock immediately below surface. Angular cobbles up to 5 cm long. Micaceous quartzite with up to 20% muscovite. Possible some very fine-grained feldspar. Sample is 20% of bag of white to slightly gray translucent, aphaniti
W16185	Yellow	DJS	Aug-9-2014	823	WGS84	-139.5586	63.29825	572,259	7,019,633	Rock	rg	f	1	cm	Qvn	Downed tree with rocks in roots and beneath root mass. Host rock is platy muscovite quartzite, maybe a bit of semi-schist. Sample (25% of bag) is white, translucent to opaque anhedral quartz. Several veins are foliation parallel. Most veins < 1cm thic
W16186	Yellow	DJS	Aug-9-2014	849	WGS84	-139.5538	63.29965	572,496	7,019,793	Rock	rg	r	20	cm	Sk	Top of ridge - reindeer moss - dug hole 20cm diameter. semi-angular boulders. One slab of quartz-muscovite-biotite semi-schist. Larger rock is pale green, white and salmon brown colored, with colors as streaks and splotches. Rock is sharp, dense, and
W16187	Yellow	DJS	Aug-9-2014	868	WGS84	-139.543	63.29797	573,043	7,019,618	Rock	rg	r	3	cm	Qvn	Top of ridge at LZ. 12" deep hole under reindeer moss. 80% float, platy quartz-muscovite schist. 20% blocky micaceous quartzite. Trace amounts of irregular, knobby, small cobbles of moderate FeOx stained, crustiform quartz vein. Vugs lined with 1mm e
W16188	Yellow	DJS	Aug-9-2014	879	WGS84	-139.5344	63.29836	573,472	7,019,672	Rock	rg	r	5	ft	Gr	Top of ridge, dug several holes. Numerous rocks up to 30cm x 25cm x 20cm. Angular, orange FeOx stained outer surfaces. Broken rock is pink-white, medium-grained felsic intrusion (granitoid). Feldspar phenotypes up to 3mm long and flashy. White quartz
W16189	Yellow	DJS	Aug-9-2014	794	WGS84	-139.5166	63.29741	574,366	7,019,587	Rock	rg	r	1	ft	Gr	Blown over tree with angular cobbles and pebbles. Light pink to brown fine-to-medium-grained biotite granite. In places rock looks foliated(?) - mostly not. Randomly oriented flash plagioclase phenocrysts and black biotite. Trance amounts of pyrite -
W16190	Yellow	DJS	Aug-9-2014	732	WGS84	-139.5098	63.29635	574,711	7,019,476	Rock	rg	r	5	cm	Qvn	Fallen tree with rocks in root mass. Very angular. One small piece of biotite granite. Full sample bag of white anhedral quartz vein with abundant orange FeOx stain on fractures and in irregular vugs. Quartz vein up to 4.5 cm thick.
W16191	Yellow	DJS	Aug-10-2014	945	WGS84	-139.5668	63.2865	571,877	7,018,314	Rock	rg	r	5	cm	Qvn	Dug hole in game trail track. Subangular cobbles of quartz vein up to 5 cm thick. Quartz is white to grayish white. Translucent, anhedral and massive. Orange and black FeOx stain on fractures. Unknown host rock. Full sample bag.
W16192	Yellow	DJS	Aug-10-2014	868	WGS84	-139.5365	63.28419	573,402	7,018,091	Rock	rg	f	5	cm	Amt	Coarse-grained amphibolite - angular boulders up to 2ft x 1ft x 0.5ft. Amphibole up to 5 mm long. 1cm wide white quartz vein cross-cuts foliation. Vein is vuggy with moderate FeOx stain. Quartz vein is moderate FeOx stain. Quartzite is anhedral, white, slightly translucent. Amphibole
W18613	Yellow	smc	Aug-7-2014	1014	WGS84	-139.5738	63.2984	571,500	7,019,632	Rock	sg	f	4	in	Qvn	Select grab from helicopter LZ of 4in x 4in x 4in quartz vein. Opaque to translucent white and occasionally smoky gray quartz. Very weak FeOx along fractures, no visible sulfides. Sample in a crenulated schist exposed on knob. Foliation trending 325/4
W18614	Yellow	SMC	Aug-7-2014	1012	WGS84	-139.5737	63.29836	571,502	7,019,628	Rock	sg	b	5	in	Qvn	Select grab of 5 in opaque to translucent white quartz vein in bedrock. Bedrock is a crenulated schist. Vein trans 325/65 (right hand rule), foliation parallel. No visible sulfides and very weak FeOx along fractures.
W24397	Yellow	DJS	Aug-7-2014	1017	WGS84	-139.5737	63.29844	571,501	7,019,636	Rock	rg	b	5	ft	QB8Sch	Cleared LZ on small knob. Foliation 325/40 (right hand rule). Quartz-biotite schist with 3cm thick foliation parallel white quartz vein. Very weak FeOx stain on fractures, no visible sulfides or mineralization. Quartz vein is massive, anhedral quartz.
W24398	Yellow	DJS	Aug-7-2014	1014	WGS84	-139.5736	63.29847	571,510	7,019,640	Rock	rg	b	2	cm	Qte	Grab sample of vuggy, cross cutting quartz vein in fine-grained biotite-quartzite. Rock is blocky. Several 2 mm thick foliation parallel quartz veinlets. cross-cutting quartz vein is 2 to 3 cm thick with abundant brown and black FeOx and MnOx stain.
W24399	Yellow	DJS	Aug-7-2014	1028	WGS84	-139.5748	63.29742	571,453	7,019,522	Rock	rg	b	4	cm	Qte	Yellow claims. Foliation 315/40 (right hand rule). Reddish brown fine-grained quartzite. Slightly red color due to old burn (oxidized surfaces). Quartz vein cross-cuts foliation with weak FeOx stain. Anhedral quartz. Micaceous (muscovite) quartzite
W24400	Yellow	DJS	Aug-7-2014	965	WGS84	-139.573	63.29265	571,554	7,018,992	Rock	rg	b	6	cm	Qvn	Translucent anhedral quartz vein. Weak orange FeOx stain along fractures. Quartz varies from mostly white to much less or light gray color. Looks like metamorphic quartz veins. Cobbles up to 6cm thick in shortest dimension, but more commonly 3cm thick

sample_id	project_id	technician_id	utm_zone	utm_easting	utm_northing	time	date	method	colour	texture	moisture	site_slope	depth_cm	quality	horizon	site_vegetation	ground_cover	note1	note2	remarks	dupe_of_id	pgid
1348835	YEL	BG01	7	572656	7021100	15:32:10	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	40	Good	B	Black Spruce	Leaf Cover	Fine	Rocky			19954
1364449	YEL	JM04	7	573262	7021280	14:32:25	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	40	Good	B	Black Spruce	Sphagnum Moss < 30cm					20011
1385038	YEL	RF01	7	573069	7021206	13:54:45	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	50	Good	B	White Spruce	Thin Moss Cover	Coarse	Rocky Terrain			20064
1385035	YEL	RF01	7	573152	7021080	13:17:22	6/8/2014	Hand Auger	Reddish Brown	Sand	Dry	Subtle Slope	100	Excellent	C	Poplar	Leaf Cover	Coarse				20067
1385032	YEL	RF01	7	573239	7020958	12:45:32	6/8/2014	Hand Auger	Light Brown	Sand	Dry	Subtle Slope	80	Good	B	White Spruce	Thin Moss Cover	Coarse	Rusty Rock Chip			20065
1385033	YEL	RF01	7	573212	7021000	12:56:07	6/8/2014	Hand Auger	Reddish Yellow	Sand	Dry	Pronounced Slope	50	Good	C	White Spruce	Leaf Cover	Coarse				20066
1385034	YEL	RF01	7	573182	7021039	13:06:30	6/8/2014	Hand Auger	Reddish Yellow	Sand	Dry	Subtle Slope	50	Good	C	Poplar	Leaf Cover	Coarse				20068
1385031	YEL	RF01	7	573266	7020917	12:37:37	6/8/2014	Hand Auger	Light Brown	Sand	Dry	Subtle Slope	60	Good	C	White Spruce	Leaf Cover	Coarse	Rusty Rock Chip			20069
1385030	YEL	RF01	7	573297	7020877	12:28:23	6/8/2014	Hand Auger	Light Brown	Sand	Dry	Subtle Slope	80	Good	C	Poplar	Leaf Cover	Coarse	Bright Orange Rust			20070
1385029	YEL	RF01	7	573323	7020836	12:19:40	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Pronounced Slope	50	Good	B	White Spruce	Thin Moss Cover	Coarse				20071
1385020	YEL	RF01	7	573555	7020510	11:06:07	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	40	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse	Partially Frozen			20072
1385019	YEL	RF01	7	573583	7020468	11:00:03	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20073
1345713	YEL	CP01	7	572975	7021691	14:29:22	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Pronounced Slope	80	Excellent	C	White Spruce	Thin Moss Cover					20074
1374911	YEL	BG01	7	573315	7020155	11:14:20	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	60	Good	C	Black Spruce	Reindeer Moss	Mud	Frozen			20076
1374910	YEL	BG01	7	573346	7020115	11:01:11	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	70	Good	C	Black Spruce	Reindeer Moss	Mud	Frozen			20075
1374912	YEL	BG01	7	573286	7020196	11:21:47	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	60	Good	C	Black Spruce	Sphagnum Moss < 30cm	Coarse	Rocky			20078
1385018	YEL	RF01	7	573612	7020427	10:55:08	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	100	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20077
1385012	YEL	RF01	7	573787	7020182	10:10:34	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	60	Good	B	Black Spruce	Reindeer Moss	Coarse	Rocky Terrain			20079
1349441	YEL	SD02	7	572301	7020910	13:18:36	6/8/2014	Hand Auger	Grey	Sand	Damp	Pronounced Slope	50	Good	C	Black Spruce	Sphagnum Moss < 30cm	Bright Orange Rust	Frozen			20091
1348834	YEL	BG01	7	572685	7021058	15:21:39	6/8/2014	Hand Auger	Reddish Yellow	Clay	Dry	Flat	60	Good	C	White Spruce	Sphagnum Moss < 30cm	Bright Orange Rust	Fine			20270
1349440	YEL	SD02	7	572328	7020870	13:13:57	6/8/2014	Hand Auger	Grey	Sand	Damp	Pronounced Slope	50	Good	C	Subalpine Fir	Reindeer Moss	Rocky	Coarse			20271
1349438	YEL	SD02	7	572386	7020788	13:05:32	6/8/2014	Hand Auger	Reddish Brown	Gravel	Damp	Subtle Slope	40	Excellent	C	Subalpine Fir	Reindeer Moss	Dull Red Rust				20274
1349437	YEL	SD02	7	572415	7020747	12:49:08	6/8/2014	Hand Auger	Reddish Brown	Sand	Damp	Subtle Slope	40	Excellent	C	Birch Forest	Sphagnum Moss < 30cm	Coarse	Rocky			20276
1349436	YEL	SD02	7	572443	7020705	12:42:17	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	40	Excellent	C	Alders	Thin Moss Cover	Bright Orange Rust	Fine			20278
1349434	YEL	SD02	7	572501	7020623	12:30:22	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Subtle Slope	70	Excellent	C	White Spruce	Grass Cover	Bright Orange Rust	Clay			20282
1349435	YEL	SD02	7	572470	7020664	12:35:56	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	80	Excellent	C	White Spruce	Sphagnum Moss < 30cm	Bright Orange Rust				20281
1349433	YEL	SD02	7	572531	7020583	12:22:47	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	70	Excellent	C	White Spruce	Thin Moss Cover	Coarse				20287
1349432	YEL	SD02	7	572559	7020541	12:16:26	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Subtle Slope	70	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Fine				20321
1349430	YEL	SD02	7	572617	7020461	11:56:52	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Subtle Slope	50	Excellent	C	Black Spruce	Leaf Cover	Bright Orange Rust	Rocky			20323
1349431	YEL	SD02	7	572587	7020500	12:02:34	6/8/2014	Hand Auger	Light Brown	Sand	Damp	Subtle Slope	50	Excellent	C	White Spruce	Sphagnum Moss < 30cm	Coarse	Rocky			20322
1349429	YEL	SD02	7	572644	7020416	11:49:47	6/8/2014	Hand Auger	Reddish Brown	Gravel	Damp	Pronounced Slope	40	Good	C	White Spruce	Reindeer Moss	Fine	Rocky			20324
1349428	YEL	SD02	7	572673	7020377	11:43:10	6/8/2014	Hand Auger	Dark Grey Black	Sand	Damp	Subtle Slope	70	Good	B	Black Spruce	Reindeer Moss	Bright Orange Rust	Frozen			20325
1349427	YEL	SD02	7	572700	7020336	11:38:06	6/8/2014	Hand Auger	Grey	Sand	Damp	Subtle Slope	50	Excellent	C	Black Spruce	Thin Moss Cover	Bright Orange Rust	Frozen			20326
1349426	YEL	SD02	7	572731	7020297	11:32:56	6/8/2014	Hand Auger	Grey	Gravel	Wet	Pronounced Slope	70	Excellent	C	Alders	Grass Cover	Bright Orange Rust	Rocky			20327
1334274	YEL	SD02	7	572758	7020253	11:22:40	6/8/2014	Hand Auger	Grey	Sand	Damp	Subtle Slope	70	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Bright Orange Rust	Coarse			20329
1334275	YEL	SD02	7	572758	7020253	11:26:08	6/8/2014	Hand Auger	Grey	Sand	Damp	Subtle Slope	60	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Bright Orange Rust	Coarse		1334274	20328
1334273	YEL	SD02	7	572789	7020214	11:17:22	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	80	Good	C	Birch Forest	Sphagnum Moss < 30cm	Dull Red Rust				20331
1374920	YEL	BG01	7	573060	7020527	12:51:59	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	60	Good	C	White Spruce	Sphagnum Moss < 30cm	Coarse	Rocky			20330
1334267	YEL	SD02	7	572956	7019969	10:37:24	6/8/2014	Hand Auger	Light Brown	Gravel	Wet	Subtle Slope	60	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Rocky	Partially Frozen			20334
1334266	YEL	SD02	7	572988	7019931	10:32:27	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	70	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Coarse				20333
1374925	YEL	BG01	7	572946	7020691	13:41:18	6/8/2014	Hand Auger	Light Brown	Silt	Dry	Subtle Slope	50	Good	C	White Spruce	Thin Moss Cover	Clay	Fine		1374924	20332
1348832	YEL	BG01	7	572743	7020979	15:04:24	6/8/2014	Hand Auger	Reddish Yellow	Clay	Damp	Subtle Slope	60	Good	C	White Spruce	Sphagnum Moss < 30cm	Coarse	Rocky			20339
1334271	YEL	SD02	7	572840	7020137	10:59:59	6/8/2014	Hand Auger	Reddish Brown	Sand	Damp	Pronounced Slope	60	Good	C	Alders	Leaf Cover	Rocky				20338
1348833	YEL	BG01	7	572712	7021016	15:12:32	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Flat	40	Good	B	White Spruce	Reindeer Moss	Clay	Rocky			20335
1348831	YEL	BG01	7	572772	7020936	14:54:30	6/8/2014	Hand Auger	Chocolate Brown	Clay	Damp	Subtle Slope	50	Good	B	White Spruce	Sphagnum Moss < 30cm	Clay	Mud			20337
1334268	YEL	SD02	7	572928	7020012	10:42:12	6/8/2014	Hand Auger	Grey	Gravel	Wet	Subtle Slope	40	Excellent	C	Black Spruce	Reindeer Moss	Bright Orange Rust	Rocky			20336
1334272	YEL	SD02	7	572815	7020172	11:11:02	6/8/2014	Hand Auger	Grey	Sand	Damp	Subtle Slope	70	Excellent	C	Alders	Grass Cover	Bright Orange Rust	Coarse			20340
1348829	YEL	BG01	7	572830	7020857	14:32:35	6/8/2014	Hand Auger	Grey	Sand	Dry	Subtle Slope	80	Good	C	White Spruce	Sphagnum Moss < 30cm	Clay	Fine			20341
1348830	YEL	BG01	7	572799	7020897	14:42:13	6/8/2014	Hand Auger	Grey	Clay	Damp	Subtle Slope	50	Good	C	White Spruce	Needle Cover	Organic 10%	Rocky			20342
1334269	YEL	SD02	7	572898	7020052	10:48:43	6/8/2014	Hand Auger	Grey	Sand	Wet	Pronounced Slope	70	Excellent	C	Alders	Reindeer Moss	Coarse	Bright Orange Rust			20343
1334270	YEL	SD02	7	572872	7020094	10:53:57	6/8/2014	Hand Auger	Reddish Brown	Sand	Damp	Pronounced Slope	60	Excellent	C	White Spruce	Sphagnum Moss < 30cm	Bright Orange Rust				20344
1348828	YEL	BG01	7	572859	7020813	14:21:10	6/8/2014	Hand Auger	Chocolate Brown	Silt	Dry	Subtle Slope	40	Good	B	White Spruce	Needle Cover	Clay	Fine			20345
1348827	YEL	BG01	7	572886	7020771	14:12:12	6/8/2014	Hand Auger	Chocolate Brown	Silt	Dry	Subtle Slope	50	Good	C	White Spruce	Needle Cover	Fine	Clay			20346
1348826	YEL	BG01	7	572915	7020729	14:01:00	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	50	Good	C	White Spruce	Leaf Cover	Coarse	Rocky			20347
1334264	YEL	SD02	7	573044	7019849	10:23:58	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	60	Excellent	C	Birch Forest	Sphagnum Moss < 30cm	Bright Orange Rust				20348
1334265	YEL	SD02	7	573015	7019888	10:27:51	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Pronounced Slope	60	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Bright Orange Rust				20349
1334263	YEL	SD02	7	573073	7019806	10:19:12	6/8/2014	Hand Auger	Grey	Gravel	Damp	Pronounced Slope	90	Excellent	C	Black Spruce	Sphagnum Moss < 30cm	Rocky	Rocky Sample			20351
1374924	YEL	BG01	7	572943	7020689	13:36:31	6/8/2014	Hand Auger	Light Brown	Silt	Dry	Subtle Slope	50	Good	C	White Spruce	Thin Moss Cover	Clay	Fine			20350
1334260	YEL	SD02	7	573160	7019682	10:04:25	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Subtle Slope	40	Excellent	C	Subalpine Fir	Thin Moss Cover	Fine	Rocky			20357
1334262	YEL	SD02	7	573100	7019765	10:13:50	6/8/2014	Hand Auger	Dark Brown	Sand	Damp	Pronounced Slope	40	Excellent	B	Black Spruce	Sphagnum Moss < 30cm	Rocky				20353
1374923	YEL	BG01	7	572974	7020648	13:25:22	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	50	Good	C	White Spruce	Sphagnum Moss < 30cm	Fine	Rocky			20352
1374921	YEL	BG01	7	573031	7020570	13:01:48	6/8/2014	Hand Auger	Light Brown	Silt	Dry	Subtle Slope	50	Good	C	White Spruce	Sphagnum Moss < 30cm	Fine	Bright Orange Rust			20356
1374922	YEL	BG01	7	573001	7020607	13:14:22	6/8/2014	Hand Auger	Chocolate Brown	Silt	Dry	Subtle Slope	50	Good	C	White Spruce	Sphagnum Moss < 30cm	Fine	Clay			20354
1334261	YEL	SD02	7	573131	7019726	10:09:11	6/8/2014															

sample_id	project_id	technician_id	utm_zone	utm_easting	utm_northing	time	date	method	colour	texture	moisture	site_slope	depth_cm	quality	horizon	site_vegetation	ground_cover	note1	note2	remarks	dupe_of_id	pgid
1385040	YEL	RF01	7	573012	7021287	14:15:07	6/8/2014	Hand Auger	Reddish Yellow	Sand	Dry	Subtle Slope	60	Good	B	White Spruce	Sphagnum Moss < 30cm	Coarse	Quartz Chips			20364
1385041	YEL	RF01	7	572956	7021369	14:22:24	6/8/2014	Hand Auger	Reddish Brown	Sand	Dry	Pronounced Slope	80	Good	C	White Spruce	Sphagnum Moss < 30cm	Coarse				20366
1374914	YEL	BG01	7	573230	7020278	11:48:03	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm	Coarse	Organic 10%			20367
1385036	YEL	RF01	7	573125	7021124	13:33:03	6/8/2014	Hand Auger	Reddish Brown	Sand	Dry	Subtle Slope	70	Good	C	White Spruce	Leaf Cover	Coarse				20368
1374913	YEL	BG01	7	573261	7020240	11:31:35	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	100	Good	C	Black Spruce	Sphagnum Moss < 30cm	Mud	Coarse			20369
1385037	YEL	RF01	7	573097	7021164	13:43:40	6/8/2014	Hand Auger	Light Brown	Sand	Dry	Subtle Slope	50	Good	B	White Spruce	Grass Cover	Coarse				20370
1385028	YEL	RF01	7	573351	7020796	12:08:16	6/8/2014	Hand Auger	Reddish Yellow	Sand	Dry	Subtle Slope	50	Good	B	White Spruce	Leaf Cover	Coarse				20371
1385026	YEL	RF01	7	573409	7020714	11:51:09	6/8/2014	Hand Auger	Reddish Yellow	Sand	Dry	Pronounced Slope	50	Good	B	Poplar	Leaf Cover	Coarse				20372
1385027	YEL	RF01	7	573380	7020753	11:59:41	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	40	Poor	B	Poplar	Leaf Cover	Coarse	Rocky Terrain			20373
1385022	YEL	RF01	7	573496	7020591	11:18:10	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	80	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20377
1385025	YEL	RF01	7	573441	7020674	11:40:25	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	60	Good	B	White Spruce	Sphagnum Moss < 30cm	Coarse			1385024	20374
1385024	YEL	RF01	7	573441	7020674	11:38:25	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	60	Good	B	White Spruce	Sphagnum Moss < 30cm	Coarse				20375
1385023	YEL	RF01	7	573469	7020629	11:25:02	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	60	Poor	B	Black Spruce	Sphagnum Moss < 30cm	Coarse	Possible Creek Contamination			20376
1385015	YEL	RF01	7	573698	7020304	10:29:34	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	80	Good	B	Black Spruce	Reindeer Moss	Coarse				20383
1385016	YEL	RF01	7	573671	7020346	10:36:42	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20379
1385021	YEL	RF01	7	573525	7020551	11:12:22	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20378
1374909	YEL	BG01	7	573375	7020073	10:53:08	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	70	Good	C	Black Spruce	Reindeer Moss	Organic 10%	Mud			20382
1385017	YEL	RF01	7	573638	7020391	10:49:21	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Subtle Slope	50	Good	B	Birch Forest	Leaf Cover	Coarse				20380
1385013	YEL	RF01	7	573758	7020223	10:17:20	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20381
1385014	YEL	RF01	7	573726	7020264	10:24:06	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	60	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20384
1374907	YEL	BG01	7	573431	7019993	10:36:19	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	60	Good	C	Black Spruce	Sphagnum Moss < 30cm	Organic 10%	Partially Frozen			20387
1374906	YEL	BG01	7	573458	7019954	10:19:08	6/8/2014	Hand Auger	Light Brown	Sand	Damp	Subtle Slope	80	Good	C	Black Spruce	Sphagnum Moss < 30cm	Frozen	Bright Orange Rust	minor orange rust		20385
1374908	YEL	BG01	7	573401	7020033	10:43:37	6/8/2014	Hand Auger	Chocolate Brown	Sand	Wet	Subtle Slope	50	Good	B	Black Spruce	Reindeer Moss	Mud	Organic 10%			20386
1374905	YEL	BG01	7	573489	7019911	10:07:19	6/8/2014	Hand Auger	Light Brown	Sand	Wet	Subtle Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Frozen	Mud			20388
1345722	YEL	CP01	7	573233	7021321	15:26:30	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Subtle Slope	50	Good	C	White Spruce	Thin Moss Cover					20391
1385011	YEL	RF01	7	573814	7020142	10:04:40	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	70	Good	B	Black Spruce	Sphagnum Moss < 30cm	Coarse				20389
1345725	YEL	CP01	7	573206	7021362	15:24:49	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Flat	60	Excellent	C	White Spruce	Thin Moss Cover				1345721	20390
1345720	YEL	CP01	7	573177	7021403	15:13:54	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Flat	50	Excellent	C	White Spruce	Reindeer Moss					20392
1345721	YEL	CP01	7	573206	7021362	15:18:47	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Flat	60	Excellent	C	White Spruce	Thin Moss Cover					20393
1345719	YEL	CP01	7	573148	7021444	15:08:39	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Subtle Slope	50	Excellent	C	White Spruce	Reindeer Moss					20394
1345718	YEL	CP01	7	573119	7021486	15:04:00	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Subtle Slope	60	Excellent	C	White Spruce	Reindeer Moss					20395
1345717	YEL	CP01	7	573091	7021528	14:58:45	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	40	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20396
1345716	YEL	CP01	7	573061	7021568	14:52:19	6/8/2014	Hand Auger	Light Brown	Gravel	Dry	Pronounced Slope	70	Good	C	White Spruce	Thin Moss Cover					20397
1345712	YEL	CP01	7	572917	7021773	14:22:00	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Pronounced Slope	60	Good	C	Black Spruce	Sphagnum Moss > 30cm					20400
1345715	YEL	CP01	7	573032	7021609	14:46:23	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20398
1345710	YEL	CP01	7	572865	7021858	14:11:14	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Good	C	White Spruce	Sphagnum Moss > 30cm					20402
1345714	YEL	CP01	7	573004	7021649	14:40:01	6/8/2014	Hand Auger	Light Brown	Gravel	Dry	Pronounced Slope	50	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20399
1345711	YEL	CP01	7	572890	7021814	14:16:31	6/8/2014	Hand Auger	Light Brown	Sand	Dry	Pronounced Slope	60	Good	C	White Spruce	Thin Moss Cover					20401
1345709	YEL	CP01	7	572831	7021900	14:05:21	6/8/2014	Hand Auger	Dark Brown	Gravel	Dry	Pronounced Slope	80	Good	C	Willows	Sphagnum Moss > 30cm					20404
1364448	YEL	JM04	7	573291	7021238	14:24:44	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	30	Good	B	Black Spruce	Sphagnum Moss < 30cm					20403
1364446	YEL	JM04	7	573349	7021156	14:06:44	6/8/2014	Hand Auger	Chocolate Brown	Sand	Dry	Pronounced Slope	50	Good	C	Poplar	Leaf Cover					20406
1364447	YEL	JM04	7	573320	7021198	14:16:26	6/8/2014	Hand Auger	Light Brown	Sand	Damp	Pronounced Slope	40	Good	B	Poplar	Thin Moss Cover					20405
1364444	YEL	JM04	7	573405	7021076	13:48:35	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	60	Good	C	Poplar	Leaf Cover					20410
1345707	YEL	CP01	7	572902	7021450	13:16:11	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	70	Good	C	White Spruce	Sphagnum Moss > 30cm					20407
1364445	YEL	JM04	7	573378	7021116	13:57:11	6/8/2014	Hand Auger	Light Brown	Silt	Dry	Pronounced Slope	50	Good	B	Poplar	Leaf Cover					20409
1345708	YEL	CP01	7	572927	7021413	13:25:25	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Good	C	Birch Forest	Sphagnum Moss > 30cm					20408
1345704	YEL	CP01	7	572811	7021577	12:49:04	6/8/2014	Hand Auger	Dark Brown	Gravel	Dry	Pronounced Slope	80	Excellent	C	White Spruce	Thin Moss Cover					20411
1364442	YEL	JM04	7	573464	7020993	13:30:37	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	40	Good	B	Poplar	Leaf Cover					20415
1345706	YEL	CP01	7	572867	7021492	13:08:50	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	70	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20412
1345705	YEL	CP01	7	572841	7021536	12:58:56	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Good	C	Willows	Leaf Cover					20413
1364443	YEL	JM04	7	573434	7021034	13:39:24	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	50	Good	C	Poplar	Leaf Cover					20414
1345698	YEL	CP01	7	572668	7021777	11:42:48	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Good	C	White Spruce	Reindeer Moss					20416
1345699	YEL	CP01	7	572694	7021738	12:03:55	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Pronounced Slope	60	Good	C	White Spruce	Sphagnum Moss > 30cm					20417
1364441	YEL	JM04	7	573493	7020951	13:22:25	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	50	Good	B	Poplar	Leaf Cover					20418
1345703	YEL	CP01	7	572783	7021619	12:39:09	6/8/2014	Hand Auger	Dark Brown	Gravel	Dry	Pronounced Slope	40	Excellent	C	Willows	Leaf Cover					20419
1345700	YEL	CP01	7	572723	7021697	12:13:49	6/8/2014	Hand Auger	Dark Brown	Clay	Damp	Pronounced Slope	50	Good	B	Birch Forest	Leaf Cover					20420
1345702	YEL	CP01	7	572752	7021657	12:24:07	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Pronounced Slope	60	Excellent	C	Birch Forest	Sphagnum Moss > 30cm					20421
1364440	YEL	JM04	7	573522	7020911	13:15:33	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	40	Good	B	Poplar	Leaf Cover					20422
1345693	YEL	CP01	7	572455	7021385	10:44:25	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Damp	Pronounced Slope	70	Good	C	White Spruce	Sphagnum Moss > 30cm					20428
1345697	YEL	CP01	7	572342	7021550	11:12:03	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Pronounced Slope	40	Good	C	White Spruce	Reindeer Moss					20423
1345695	YEL	CP01	7	572397	7021466	10:57:50	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	50	Good	C	White Spruce	Sphagnum Moss > 30cm					20425
1345696	YEL	CP01	7	572369	7021508	11:05:31	6/8/2014	Hand Auger	Dark Brown	Gravel	Dry	Pronounced Slope	80	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20424
1345690	YEL	CP01	7	572540	7021263	10:21:23	6/8/2014	Hand Auger	Dark Brown	Gravel	Damp	Pronounced Slope	70	Good	C	White Spruce	Sphagnum Moss > 30cm					20427
1345694	YEL	CP01	7	572426	7021425	10:50:30	6/8/2014	Hand Auger	Chocolate Brown	Gravel	Dry	Pronounced Slope	70	Excellent	C	White Spruce	Sphagnum Moss > 30cm					20426
1345692	YEL	CP01	7	572484	7021343	10:																

sample_id	project_id	technician_id	utm_zone	utm_easting	utm_northing	time	date	method	colour	texture	moisture	site_slope	depth_cm	quality	horizon	site_vegetation	ground_cover	note1	note2	remarks	dupe_of_id	pgid
1364436	YEL	JM04	7	573606	7020789	12:50:14	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	50	Good	C	Poplar	Sphagnum Moss < 30cm					20439
1364438	YEL	JM04	7	573579	7020827	12:56:53	6/8/2014	Hand Auger	Light Brown	Sand	Damp	Pronounced Slope	40	Good	B	Poplar	Thin Moss Cover					20441
1364433	YEL	JM04	7	573691	7020665	12:15:07	6/8/2014	Hand Auger	Dark Brown	Silt	Damp	Pronounced Slope	50	Good	B	Birch Forest	Sphagnum Moss < 30cm	Possible Creek Contamination				20444
1364435	YEL	JM04	7	573635	7020748	12:35:03	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	110	Good	C	Poplar	Sphagnum Moss < 30cm					20445
1364434	YEL	JM04	7	573664	7020707	12:24:59	6/8/2014	Hand Auger	Dark Brown	Silt	Damp	Pronounced Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm					20446
1364428	YEL	JM04	7	573836	7020461	11:37:20	6/8/2014	Hand Auger	Chocolate Brown	Silt	Damp	Subtle Slope	70	Good	B	Black Spruce	Sphagnum Moss < 30cm	Mud				20449
1364429	YEL	JM04	7	573808	7020501	11:45:39	6/8/2014	Hand Auger	Chocolate Brown	Silt	Damp	Subtle Slope	50	Poor	B	Black Spruce	Sphagnum Moss < 30cm					20450
1364431	YEL	JM04	7	573751	7020583	11:59:54	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	50	Good	B	Birch Forest	Sphagnum Moss < 30cm					20452
1351419	YEL	JM04	7	574007	7020216	10:55:24	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	60	Good	C	Alders	Sphagnum Moss < 30cm					20456
1364430	YEL	JM04	7	573778	7020542	11:53:00	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	60	Good	B	Black Spruce	Sphagnum Moss < 30cm					20454
1364426	YEL	JM04	7	573892	7020380	11:22:47	6/8/2014	Hand Auger	Chocolate Brown	Silt	Damp	Pronounced Slope	70	Good	B	Black Spruce	Reindeer Moss					20455
1351423	YEL	JM04	7	573921	7020339	11:15:44	6/8/2014	Hand Auger	Chocolate Brown	Silt	Damp	Pronounced Slope	50	Good	B	Black Spruce	Sphagnum Moss < 30cm	Mud				20457
1351420	YEL	JM04	7	573978	7020257	11:01:48	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	80	Good	C	Black Spruce	Grass Cover					20459
1351422	YEL	JM04	7	573951	7020297	11:08:52	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	70	Good	C	Black Spruce	Sphagnum Moss < 30cm					20458
1351418	YEL	JM04	7	574065	7020134	10:37:54	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	70	Good	B	White Spruce	Sphagnum Moss < 30cm	Mud				20460
1351421	YEL	JM04	7	574037	7020175	10:47:51	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Pronounced Slope	100	Good	C	Black Spruce	Sphagnum Moss < 30cm					20461
1351417	YEL	JM04	7	574093	7020094	10:27:32	6/8/2014	Hand Auger	Dark Brown	Silt	Damp	Pronounced Slope	50	Good	B	Alders	Sphagnum Moss < 30cm					20462
1349439	YEL	SD02	7	572358	7020830	13:09:47	6/8/2014	Hand Auger	Light Brown	Gravel	Wet	Subtle Slope	60	Good	C	Black Spruce	Sphagnum Moss < 30cm	Rocky				20463
1364427	YEL	JM04	7	573864	7020420	11:28:54	6/8/2014	Hand Auger	Chocolate Brown	Sand	Damp	Subtle Slope	50	Good	B	Black Spruce	Reindeer Moss	Mud				20464

## 6.5 Appendix 5: Assays certificates, soil and rock samples.





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

www.acmelab.com

Client: **Selene Holdings LP**  
25 York St, 15th Floor  
Toronto ON M5J 2V5 CANADA

Submitted By: David Emmons  
Receiving Lab: Canada-Whitehorse  
Received: August 12, 2014  
Report Date: September 04, 2014  
Page: 1 of 7

## CERTIFICATE OF ANALYSIS

WHI14000102.1

### CLIENT JOB INFORMATION

Project: YELLOW  
Shipment ID: YEL2014-08-07  
P.O. Number  
Number of Samples: 162

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Kinross Gold Corp.  
9400 Gateway Drive, Suite C  
Reno NV 89521  
USA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	162	Dry at 60C			WHI
SS80	161	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	162	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DISP2	162	Heat treatment of Soils and Sediments			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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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Selene Holdings LP**  
25 York St, 15th Floor  
Toronto ON M5J 2V5 CANADA

Project: YELLOW  
Report Date: September 04, 2014

Page: 2 of 7

Part: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI14000102.1

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1385014	Soil			0.8	27.9	10.9	72	<0.1	29.9	14.7	352	3.77	4.9	0.9	1.3	9.7	14	<0.1	0.3	0.1	70	0.19	0.055
1385015	Soil			0.7	30.2	12.4	98	<0.1	39.9	19.8	500	4.72	4.2	1.2	<0.5	15.8	21	<0.1	0.2	0.1	79	0.34	0.096
1385037	Soil			2.0	44.7	25.9	73	<0.1	35.6	11.0	394	3.21	62.1	1.6	3.2	8.7	36	0.1	1.9	0.2	69	0.29	0.047
1385040	Soil			1.0	33.0	50.8	71	<0.1	21.9	6.5	199	2.82	179.7	1.1	0.7	8.2	16	<0.1	5.1	0.5	34	0.11	0.020
1385016	Soil			0.9	21.9	12.9	66	<0.1	27.7	12.1	307	3.56	6.1	1.3	0.8	9.6	24	<0.1	0.2	0.1	69	0.28	0.050
1385012	Soil			1.1	21.8	11.1	69	<0.1	30.4	14.6	417	3.96	6.9	0.8	1.2	9.2	14	<0.1	0.4	0.1	70	0.15	0.038
1385036	Soil			1.7	56.4	22.8	88	0.1	42.9	20.5	845	4.87	64.2	1.5	1.4	5.7	23	0.1	3.1	0.2	78	0.47	0.047
1385039	Soil			1.1	20.0	42.7	77	<0.1	25.2	8.1	394	2.60	59.0	1.3	<0.5	9.1	19	0.1	4.8	0.3	34	0.13	0.034
1385022	Soil			0.5	13.9	13.2	62	<0.1	16.0	8.7	265	2.32	6.4	1.0	1.2	4.2	17	0.1	0.3	0.1	43	0.19	0.051
1385013	Soil			1.1	19.2	15.5	72	<0.1	24.4	14.6	378	3.65	7.0	1.1	1.2	8.7	18	<0.1	0.5	0.1	53	0.17	0.044
1385038	Soil			1.4	35.6	17.8	67	<0.1	39.1	13.7	919	3.42	55.7	1.6	2.2	9.6	22	<0.1	1.3	0.1	45	0.19	0.042
1385042	Soil			0.7	28.9	26.5	58	<0.1	29.4	9.7	255	2.83	25.5	1.8	2.9	10.7	24	<0.1	0.9	0.2	51	0.28	0.032
1385021	Soil			0.9	14.9	11.8	64	<0.1	16.5	8.8	250	2.49	9.1	0.8	2.1	4.4	18	0.1	0.4	0.1	54	0.21	0.051
1385011	Soil			1.2	35.4	10.4	66	<0.1	39.9	15.2	340	3.83	6.4	1.1	33.4	7.9	19	<0.1	0.4	0.1	83	0.20	0.043
1385035	Soil			1.1	55.5	18.4	112	<0.1	71.4	24.2	627	4.79	56.6	0.8	1.9	11.5	48	<0.1	1.4	0.1	85	1.23	0.071
1385041	Soil			0.7	38.3	28.0	106	<0.1	40.9	17.4	488	4.57	28.2	0.9	1.1	11.5	20	0.1	0.9	0.3	64	0.30	0.063
1385023	Soil			0.8	22.2	12.2	80	<0.1	25.7	14.0	541	2.77	8.2	1.1	3.3	6.1	29	0.2	0.6	0.2	53	0.36	0.071
1385024	Soil			0.9	46.9	11.0	86	<0.1	44.0	17.6	285	3.86	8.9	1.2	2.6	17.2	77	<0.1	0.5	0.1	64	0.36	0.020
1385020	Soil			0.7	12.7	11.4	57	<0.1	14.6	8.5	243	2.28	7.5	0.7	1.8	5.0	17	<0.1	0.4	0.1	48	0.21	0.046
1385018	Soil			0.9	15.8	10.7	60	<0.1	18.4	9.8	252	2.92	9.1	0.8	1.8	7.2	18	<0.1	0.5	0.1	58	0.21	0.044
1385027	Soil			1.0	21.9	18.1	71	<0.1	31.9	13.9	388	3.59	8.6	0.8	1.0	10.5	26	<0.1	0.6	0.2	60	0.31	0.023
1385026	Soil			1.5	42.0	18.4	99	<0.1	52.5	21.9	538	5.17	6.8	1.4	<0.5	18.8	23	<0.1	0.5	0.2	59	0.20	0.031
1385031	Soil			1.3	46.8	41.2	104	0.1	50.9	18.3	817	4.53	26.6	2.5	3.1	16.6	74	0.1	1.3	0.4	58	0.75	0.156
1385017	Soil			0.9	18.4	11.7	67	<0.1	21.2	10.5	291	3.25	8.5	0.9	2.9	7.7	16	<0.1	0.4	0.1	57	0.17	0.055
1385025	Soil			0.8	41.6	11.6	83	<0.1	41.7	17.2	259	3.68	8.7	1.2	1.7	16.6	69	<0.1	0.5	0.1	60	0.34	0.020
1385034	Soil			1.2	37.2	23.0	84	<0.1	38.4	16.4	496	3.80	56.2	0.8	3.5	8.4	24	<0.1	3.9	0.2	64	0.32	0.019
1385033	Soil			0.8	59.8	20.9	109	<0.1	83.1	26.9	986	6.28	17.1	1.1	0.6	14.7	26	<0.1	0.7	0.1	108	0.37	0.031
1385019	Soil			0.6	14.7	9.8	61	<0.1	17.6	8.8	212	2.61	6.8	0.8	2.1	7.5	14	0.1	0.4	<0.1	49	0.18	0.043
1385028	Soil			2.1	40.4	16.9	79	<0.1	41.1	16.2	762	4.75	48.3	1.9	1.4	11.2	26	<0.1	0.9	0.1	46	0.30	0.035
1385032	Soil			1.0	36.9	15.7	67	<0.1	37.9	13.6	482	3.19	32.7	0.7	2.4	5.9	46	<0.1	1.7	0.2	60	1.66	0.034

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Project: YELLOW  
Report Date: September 04, 2014

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ201																	
		La	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	ppm	
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1385014	Soil	19	63	0.88	207	0.169	1	1.95	0.009	0.53	0.2	0.02	4.9	0.4	<0.05	7	<0.5	<0.2	
1385015	Soil	36	93	1.20	340	0.234	1	2.47	0.010	0.88	0.2	0.02	6.5	0.5	<0.05	9	<0.5	<0.2	
1385037	Soil	23	38	0.43	607	0.056	1	1.30	0.011	0.23	0.1	0.08	7.7	0.2	<0.05	4	1.1	<0.2	
1385040	Soil	12	21	0.13	262	0.003	2	0.91	0.003	0.08	<0.1	0.07	5.5	0.1	<0.05	2	<0.5	<0.2	
1385016	Soil	33	62	0.75	319	0.140	2	2.06	0.010	0.36	0.1	0.05	5.9	0.3	<0.05	8	<0.5	<0.2	
1385012	Soil	22	73	0.72	179	0.109	1	1.95	0.008	0.30	0.1	0.02	5.3	0.3	<0.05	7	<0.5	<0.2	
1385036	Soil	17	42	0.42	520	0.009	2	1.18	0.007	0.27	<0.1	0.14	18.6	0.2	<0.05	3	0.8	<0.2	
1385039	Soil	15	22	0.20	232	0.013	1	0.74	0.004	0.10	<0.1	0.04	4.0	0.1	<0.05	3	<0.5	<0.2	
1385022	Soil	17	27	0.41	171	0.061	2	1.38	0.009	0.12	0.1	0.06	3.8	0.2	<0.05	5	<0.5	<0.2	
1385013	Soil	23	37	0.50	177	0.062	2	1.65	0.008	0.24	0.1	0.06	4.4	0.2	<0.05	6	<0.5	<0.2	
1385038	Soil	19	31	0.26	361	0.031	2	1.09	0.006	0.13	<0.1	0.07	6.6	0.1	<0.05	3	<0.5	<0.2	
1385042	Soil	33	47	0.54	361	0.076	1	1.46	0.009	0.17	0.1	0.05	7.4	0.2	<0.05	5	<0.5	<0.2	
1385021	Soil	16	28	0.40	172	0.060	2	1.27	0.007	0.14	0.2	0.06	3.6	0.2	<0.05	5	<0.5	<0.2	
1385011	Soil	25	87	0.86	279	0.140	2	2.17	0.010	0.35	0.1	0.06	5.9	0.3	<0.05	8	<0.5	<0.2	
1385035	Soil	32	98	1.23	423	0.122	2	1.96	0.014	0.66	<0.1	0.07	11.5	0.4	<0.05	7	<0.5	<0.2	
1385041	Soil	17	58	0.89	266	0.130	2	2.48	0.008	0.67	0.1	0.02	6.0	0.6	<0.05	8	<0.5	<0.2	
1385023	Soil	25	30	0.55	271	0.088	1	1.35	0.019	0.17	0.2	0.05	4.7	0.2	<0.05	5	<0.5	<0.2	
1385024	Soil	67	48	1.00	251	0.133	3	2.14	0.016	0.55	0.1	0.02	6.8	0.4	<0.05	7	<0.5	<0.2	
1385020	Soil	16	25	0.39	154	0.069	2	1.25	0.010	0.10	0.2	0.07	3.2	0.1	<0.05	4	<0.5	<0.2	
1385018	Soil	18	32	0.42	199	0.080	1	1.59	0.010	0.12	0.2	0.03	3.9	0.1	<0.05	5	<0.5	<0.2	
1385027	Soil	21	45	0.66	294	0.099	2	2.01	0.008	0.38	0.1	<0.01	5.2	0.2	<0.05	7	<0.5	<0.2	
1385026	Soil	34	53	0.91	277	0.124	<1	2.33	0.008	0.76	<0.1	0.02	9.0	0.5	<0.05	8	<0.5	<0.2	
1385031	Soil	45	41	0.54	454	0.055	2	1.42	0.006	0.49	<0.1	0.23	10.5	0.4	<0.05	6	<0.5	<0.2	
1385017	Soil	21	31	0.50	148	0.102	1	1.59	0.008	0.30	0.2	0.02	4.1	0.3	<0.05	6	<0.5	<0.2	
1385025	Soil	63	45	1.00	244	0.135	3	2.06	0.014	0.58	0.1	0.02	6.4	0.5	<0.05	7	<0.5	<0.2	
1385034	Soil	20	42	0.48	273	0.050	2	1.43	0.010	0.34	0.1	0.11	10.4	0.2	<0.05	4	0.5	<0.2	
1385033	Soil	49	120	1.42	543	0.149	2	2.49	0.010	1.21	<0.1	0.09	16.7	0.8	<0.05	9	<0.5	<0.2	
1385019	Soil	19	29	0.41	177	0.088	1	1.45	0.009	0.15	0.1	0.05	3.6	0.2	<0.05	5	<0.5	<0.2	
1385028	Soil	26	32	0.32	299	0.026	3	1.18	0.006	0.22	0.1	0.08	9.4	0.2	<0.05	4	<0.5	<0.2	
1385032	Soil	20	36	0.54	408	0.055	3	1.45	0.019	0.19	0.2	0.07	7.3	0.1	<0.05	4	<0.5	<0.2	

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Project: YELLOW  
Report Date: September 04, 2014

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## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1385030	Soil	2.4	40.5	16.8	78	0.1	136.3	26.9	947	4.73	13.5	3.0	3.7	13.5	326	0.1	0.8	0.1	64	6.49	0.347
1385029	Soil	1.8	60.4	26.2	89	0.1	57.0	16.6	671	3.74	95.4	1.3	4.4	8.9	48	0.1	3.8	0.2	54	1.08	0.055
1349426	Soil	1.0	23.3	15.0	62	<0.1	24.1	11.4	383	2.92	20.0	1.2	2.9	5.9	39	0.1	0.9	0.1	44	0.49	0.058
1349441	Soil	1.2	47.2	18.0	99	0.1	240.5	32.9	817	5.05	57.6	2.3	1.6	6.2	54	0.1	3.6	0.2	84	1.11	0.096
1349428	Soil	0.6	31.8	8.7	64	<0.1	26.2	9.6	346	2.57	14.8	2.0	2.6	4.2	59	0.3	1.0	0.1	50	1.18	0.068
1349436	Soil	0.8	26.6	10.7	62	<0.1	27.3	10.7	511	3.47	13.9	1.7	1.6	8.6	69	<0.1	0.9	0.1	62	0.65	0.125
1349427	Soil	0.8	21.4	15.1	63	<0.1	24.5	10.3	231	2.97	15.7	1.2	3.8	6.7	27	0.1	0.8	0.1	46	0.36	0.043
1349440	Soil	3.1	61.0	35.1	91	0.3	78.7	18.3	686	3.85	88.3	2.4	3.1	6.3	58	0.5	3.8	0.3	71	0.93	0.094
1349433	Soil	1.5	37.9	18.1	88	<0.1	44.0	19.2	613	4.76	60.4	1.8	2.4	14.8	25	<0.1	1.7	<0.1	27	0.30	0.021
1349438	Soil	2.1	40.8	24.8	77	<0.1	46.0	12.1	508	4.38	561.4	1.8	3.7	10.4	17	<0.1	6.0	0.3	33	0.16	0.017
1334272	Soil	1.6	19.1	15.1	64	<0.1	33.1	12.3	363	2.97	27.5	0.8	3.2	7.3	25	0.1	1.1	0.1	46	0.39	0.077
1349439	Soil	1.5	44.9	14.2	75	0.2	80.4	16.0	576	3.40	84.7	0.8	16.6	3.7	45	0.2	1.8	0.2	53	1.01	0.063
1349434	Soil	0.8	55.2	15.1	77	0.1	69.2	23.0	906	4.78	31.3	1.1	5.2	8.1	97	0.1	1.4	0.1	72	3.84	0.102
1349437	Soil	2.8	30.5	26.7	65	0.1	26.4	11.7	521	3.32	25.4	0.7	1.0	2.9	20	0.2	1.4	0.3	71	0.25	0.079
1334274	Soil	0.7	22.6	11.7	56	<0.1	25.5	9.4	258	2.78	15.3	0.9	1.8	7.8	25	<0.1	0.9	0.1	46	0.34	0.052
1334261	Soil	1.1	22.3	11.9	31	0.1	15.2	6.3	154	1.94	74.1	0.9	3.9	2.6	14	<0.1	2.3	0.2	37	0.12	0.029
1349432	Soil	1.2	38.2	19.3	86	<0.1	41.7	15.4	636	4.12	44.2	1.2	2.6	11.8	31	<0.1	1.9	<0.1	37	0.37	0.036
1349435	Soil	0.7	53.9	16.0	93	<0.1	87.7	25.0	1174	5.25	66.0	2.8	3.7	16.3	381	<0.1	2.2	0.1	72	4.86	0.591
1334267	Soil	0.6	18.0	19.5	54	<0.1	32.9	10.1	349	3.26	46.6	1.0	1.9	7.2	51	<0.1	1.9	0.2	30	0.43	0.031
1334260	Soil	1.1	16.2	13.1	52	<0.1	17.6	8.1	253	2.56	27.9	0.5	1.4	2.0	14	<0.1	1.4	0.2	56	0.17	0.024
1349431	Soil	1.3	36.8	16.5	76	<0.1	29.0	13.6	487	3.95	29.9	1.2	1.4	14.2	23	<0.1	1.1	<0.1	27	0.31	0.018
1334275	Soil	0.6	25.1	11.2	61	<0.1	27.3	10.0	309	3.16	18.0	1.1	3.0	9.5	27	<0.1	1.0	0.1	46	0.33	0.048
1334271	Soil	1.1	23.6	13.2	85	<0.1	104.8	23.0	601	4.47	32.7	0.8	1.2	6.2	31	<0.1	1.6	0.3	64	0.52	0.112
1334266	Soil	0.6	21.1	16.3	68	<0.1	35.1	12.1	326	3.51	47.3	1.0	4.4	9.4	21	<0.1	1.5	0.1	43	0.25	0.032
1334264	Soil	0.8	21.1	20.1	52	<0.1	24.8	8.4	283	2.74	142.5	0.8	4.0	5.4	21	<0.1	4.3	0.2	40	0.19	0.021
1349429	Soil	1.5	22.6	12.7	70	<0.1	29.4	12.3	321	3.55	36.9	1.0	2.6	9.5	19	<0.1	1.3	0.1	46	0.24	0.015
1334270	Soil	1.9	32.1	16.4	64	0.1	38.0	12.7	370	3.17	66.1	1.1	4.5	4.7	45	0.1	2.3	0.1	45	0.40	0.095
1334268	Soil	0.7	31.2	17.2	69	0.1	49.5	13.0	722	3.25	37.2	2.3	4.3	7.2	105	0.2	2.3	0.2	30	1.22	0.055
1334262	Soil	1.0	9.9	11.1	29	<0.1	10.3	5.9	246	2.00	22.5	0.3	3.6	1.5	8	<0.1	0.9	0.2	58	0.09	0.026
1349430	Soil	0.6	33.0	16.2	107	<0.1	47.8	19.5	570	4.93	19.9	1.2	2.6	19.7	18	<0.1	0.7	<0.1	47	0.24	0.026

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## CERTIFICATE OF ANALYSIS

WHI14000102.1

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1385030	Soil			81	139	1.84	624	0.072	3	1.72	0.011	0.42	0.1	0.16	11.8	0.3	<0.05	6	<0.5
1385029	Soil			25	39	0.36	352	0.012	2	1.23	0.010	0.23	0.1	0.32	9.4	0.2	<0.05	4	0.6
1349426	Soil			26	25	0.40	412	0.033	1	1.26	0.009	0.16	0.2	0.05	4.5	0.2	<0.05	4	<0.5
1349441	Soil			26	165	1.77	434	0.082	2	1.84	0.010	0.22	0.1	0.17	11.6	0.3	<0.05	7	1.0
1349428	Soil			15	25	0.54	339	0.063	3	1.14	0.024	0.09	0.2	0.04	4.6	<0.1	<0.05	4	0.6
1349436	Soil			40	33	0.57	666	0.058	1	1.56	0.018	0.15	0.1	0.07	6.7	0.1	<0.05	6	<0.5
1349427	Soil			24	28	0.49	331	0.028	2	1.52	0.009	0.12	0.1	0.05	4.8	0.2	<0.05	4	<0.5
1349440	Soil			32	62	0.72	383	0.032	3	1.35	0.011	0.22	0.1	0.14	11.2	0.2	<0.05	5	0.9
1349433	Soil			22	20	0.21	326	0.008	1	0.90	0.004	0.24	<0.1	0.08	8.5	0.2	<0.05	3	<0.5
1349438	Soil			34	26	0.26	249	0.011	2	0.89	0.005	0.08	<0.1	0.14	6.2	0.1	<0.05	2	<0.5
1334272	Soil			20	40	0.48	227	0.040	1	1.27	0.009	0.12	0.2	0.06	3.9	0.1	<0.05	4	<0.5
1349439	Soil			19	43	0.55	548	0.027	3	1.41	0.015	0.10	0.2	0.18	6.9	0.1	<0.05	4	<0.5
1349434	Soil			29	72	0.93	531	0.046	3	1.64	0.014	0.38	0.1	0.08	11.3	0.3	<0.05	5	<0.5
1349437	Soil			10	32	0.33	148	0.035	<1	1.05	0.006	0.07	0.2	0.07	4.2	0.1	<0.05	4	<0.5
1334274	Soil			19	32	0.45	388	0.061	2	1.29	0.012	0.13	0.1	0.06	5.6	0.2	<0.05	4	<0.5
1334261	Soil			11	19	0.21	299	0.019	1	1.05	0.006	0.07	0.2	0.07	2.7	0.2	<0.05	3	<0.5
1349432	Soil			23	27	0.31	283	0.011	3	0.98	0.012	0.12	0.1	0.06	8.4	0.1	<0.05	3	<0.5
1349435	Soil			83	69	1.05	640	0.026	5	1.41	0.006	0.41	<0.1	0.18	9.3	0.3	<0.05	4	<0.5
1334267	Soil			17	19	0.25	441	0.006	2	1.04	0.005	0.14	<0.1	0.04	5.0	0.2	<0.05	3	<0.5
1334260	Soil			11	25	0.28	227	0.030	2	1.32	0.007	0.05	0.1	0.03	2.8	<0.1	<0.05	5	<0.5
1349431	Soil			19	18	0.19	237	0.006	2	0.84	0.006	0.14	0.1	0.02	7.2	0.1	<0.05	2	<0.5
1334275	Soil			22	33	0.46	531	0.059	2	1.27	0.011	0.17	0.1	0.06	6.9	0.2	<0.05	4	<0.5
1334271	Soil			24	74	0.73	204	0.063	2	1.32	0.007	0.25	0.2	0.06	5.7	0.2	<0.05	6	<0.5
1334266	Soil			22	32	0.56	315	0.063	2	1.48	0.009	0.25	0.1	0.05	5.1	0.3	<0.05	5	<0.5
1334264	Soil			12	23	0.27	226	0.022	1	1.05	0.006	0.09	0.1	0.09	3.7	0.3	<0.05	3	<0.5
1349429	Soil			19	30	0.38	174	0.053	2	1.31	0.007	0.19	0.1	0.02	4.7	0.2	<0.05	4	<0.5
1334270	Soil			18	29	0.34	232	0.019	2	1.12	0.009	0.13	0.2	0.06	4.9	0.2	0.06	4	<0.5
1334268	Soil			35	31	0.50	724	0.011	3	1.21	0.009	0.18	<0.1	0.09	7.7	0.2	<0.05	3	<0.5
1334262	Soil			8	20	0.19	151	0.036	<1	1.06	0.008	0.04	0.1	0.02	1.7	0.1	<0.05	5	<0.5
1349430	Soil			44	40	0.70	378	0.095	1	1.65	0.010	0.66	<0.1	0.04	8.5	0.5	<0.05	5	<0.5

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Project: YELLOW  
Report Date: September 04, 2014

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## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1334269	Soil	0.8	23.7	12.6	67	0.1	55.8	16.2	687	2.93	37.6	1.1	4.9	5.3	51	0.2	1.6	0.1	43	0.83	0.076
1334265	Soil	0.6	29.3	18.0	85	<0.1	39.2	15.0	452	4.07	56.1	1.2	3.5	11.7	21	0.1	1.7	0.2	44	0.30	0.045
1334263	Soil	1.2	17.5	19.6	44	<0.1	21.7	9.1	467	2.22	97.6	0.7	3.8	2.9	18	<0.1	3.7	0.2	44	0.19	0.033
1334273	Soil	0.9	14.2	8.5	46	<0.1	18.5	8.5	218	2.37	11.6	0.6	2.9	3.6	24	0.1	0.6	0.1	53	0.35	0.051
1351421	Soil	1.7	46.0	20.6	77	<0.1	49.2	15.8	508	3.62	24.4	1.0	3.3	8.6	43	<0.1	0.7	0.2	56	0.46	0.043
1364446	Soil	2.4	51.1	27.2	138	0.1	63.7	18.5	890	4.99	76.0	1.6	1.5	8.5	22	0.3	2.2	0.2	65	0.17	0.046
1364441	Soil	0.6	41.2	14.3	58	<0.1	35.7	12.0	410	2.86	23.8	0.6	4.0	4.9	31	<0.1	0.8	0.2	59	0.60	0.034
1364449	Soil	1.4	24.6	12.5	60	0.1	26.5	10.4	264	2.81	85.9	0.7	3.0	3.4	15	0.1	2.8	0.1	56	0.14	0.030
1364436	Soil	1.2	48.6	25.4	104	<0.1	63.4	20.3	982	5.36	15.3	1.7	3.4	18.9	37	<0.1	0.5	0.2	73	0.40	0.047
1364448	Soil	1.0	12.3	11.1	54	0.1	23.9	11.1	1101	2.36	6.8	0.4	1.7	3.2	23	0.1	0.5	0.1	56	0.35	0.026
1364447	Soil	1.2	28.8	18.7	75	<0.1	33.4	11.6	317	3.47	41.8	1.0	2.0	7.9	18	<0.1	2.5	0.2	53	0.20	0.033
1364445	Soil	0.9	23.1	12.1	53	<0.1	32.1	11.3	358	2.96	13.7	0.7	5.1	5.2	19	<0.1	0.7	0.2	59	0.26	0.026
1351423	Soil	1.1	28.3	9.5	73	<0.1	98.7	19.2	285	3.98	5.2	1.0	1.7	9.7	21	<0.1	0.3	0.1	70	0.28	0.037
1364427	Soil	1.0	26.1	11.6	70	<0.1	28.4	13.7	313	3.68	5.8	1.2	2.0	12.6	18	<0.1	0.3	0.1	54	0.20	0.029
1364443	Soil	0.8	35.1	25.2	57	<0.1	31.3	11.8	403	3.24	23.2	1.1	2.2	9.7	29	<0.1	0.7	0.3	48	0.29	0.028
1364429	Soil	1.1	23.8	15.6	56	<0.1	25.6	10.0	297	3.13	6.0	1.6	2.3	7.0	17	0.1	0.3	0.1	53	0.14	0.038
1364431	Soil	1.7	56.3	14.7	83	<0.1	41.5	18.5	394	4.25	12.9	1.3	1.7	8.2	21	0.1	0.4	0.1	91	0.21	0.062
1364434	Soil	0.7	31.7	9.7	65	<0.1	28.0	10.3	398	2.60	12.4	1.5	2.6	4.8	56	<0.1	0.8	0.1	55	0.67	0.077
1364440	Soil	2.3	40.2	19.8	78	<0.1	43.1	16.5	836	4.00	37.9	1.4	2.4	9.3	30	<0.1	1.2	0.2	58	0.35	0.055
1364444	Soil	1.3	52.2	16.7	85	<0.1	66.3	17.8	417	4.45	30.6	1.5	2.1	11.3	21	<0.1	0.8	0.2	64	0.25	0.033
1348829	Soil	0.7	45.2	12.0	79	<0.1	177.9	27.0	806	4.23	26.8	1.7	2.8	10.5	410	0.2	1.2	0.1	74	4.78	0.509
1374913	Soil	1.5	21.3	14.2	64	<0.1	27.9	10.9	317	3.16	10.5	1.0	6.3	9.7	21	<0.1	0.4	0.1	57	0.28	0.033
1374908	Soil	1.9	23.4	16.2	60	<0.1	25.1	10.6	391	3.01	24.0	1.0	2.8	6.1	19	<0.1	0.7	0.2	66	0.26	0.039
1374905	Soil	1.3	24.9	11.5	64	<0.1	26.9	10.6	242	2.93	14.5	1.0	2.4	6.3	22	<0.1	0.5	0.2	70	0.28	0.045
1348830	Soil	0.7	45.4	10.9	62	0.1	40.6	13.9	441	3.05	22.3	0.6	3.1	3.9	41	<0.1	0.8	0.1	78	0.83	0.053
1374912	Soil	1.1	21.5	11.0	79	<0.1	28.6	13.2	384	3.47	6.4	1.0	2.1	10.0	21	<0.1	0.2	0.1	60	0.25	0.037
1374914	Soil	1.2	25.7	9.9	75	<0.1	30.7	15.1	366	3.87	7.9	1.0	1.2	11.5	21	<0.1	0.3	0.1	60	0.29	0.051
1374906	Soil	2.2	38.4	17.7	87	<0.1	38.1	12.0	453	3.65	86.0	1.2	3.2	10.0	30	0.2	2.4	0.2	66	0.36	0.071
1348828	Soil	1.6	35.1	25.3	71	<0.1	49.1	14.2	441	3.52	156.5	1.0	2.0	7.0	52	<0.1	2.0	0.2	59	0.41	0.051
1348826	Soil	1.2	31.5	12.5	67	<0.1	36.9	15.4	490	3.85	33.4	1.0	1.2	10.3	28	<0.1	1.1	0.1	51	0.36	0.025

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Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1334269	Soil			19	43	0.55	348	0.037	2	1.19	0.014	0.12	0.2	0.09	5.7	0.1	<0.05	3	<0.5
1334265	Soil			27	36	0.53	373	0.054	2	1.48	0.007	0.37	0.1	0.06	6.3	0.3	<0.05	4	<0.5
1334263	Soil			11	23	0.27	287	0.026	2	1.02	0.007	0.07	0.2	0.08	2.9	0.2	<0.05	4	<0.5
1334273	Soil			13	29	0.43	202	0.048	2	1.34	0.011	0.05	0.2	0.02	3.0	<0.1	<0.05	4	<0.5
1351421	Soil			24	40	0.56	271	0.057	1	1.40	0.019	0.18	0.1	0.17	7.8	0.2	<0.05	4	<0.5
1364446	Soil			15	37	0.10	322	0.002	2	0.61	0.002	0.10	<0.1	0.25	10.9	0.2	<0.05	2	<0.5
1364441	Soil			17	33	0.57	279	0.060	2	1.26	0.019	0.09	0.2	0.07	5.8	<0.1	<0.05	4	<0.5
1364449	Soil			12	28	0.36	847	0.037	2	1.27	0.007	0.06	0.1	0.05	2.9	0.1	<0.05	4	<0.5
1364436	Soil			47	72	1.02	346	0.173	3	2.37	0.010	0.91	0.1	0.04	11.5	0.5	<0.05	9	<0.5
1364448	Soil			11	43	0.38	470	0.050	2	1.43	0.010	0.09	0.1	0.02	3.5	0.1	<0.05	5	<0.5
1364447	Soil			15	39	0.52	315	0.063	1	1.50	0.006	0.29	0.1	0.04	6.1	0.3	<0.05	5	<0.5
1364445	Soil			16	46	0.48	242	0.065	2	1.62	0.008	0.19	0.2	0.03	6.9	0.1	<0.05	5	<0.5
1351423	Soil			27	128	1.18	210	0.166	2	2.23	0.010	0.41	<0.1	0.02	5.5	0.3	<0.05	8	<0.5
1364427	Soil			27	39	0.61	172	0.129	2	1.72	0.008	0.42	<0.1	0.02	5.0	0.3	<0.05	6	<0.5
1364443	Soil			25	31	0.36	223	0.027	2	1.15	0.008	0.15	0.1	0.10	8.4	<0.1	<0.05	3	0.6
1364429	Soil			23	40	0.42	202	0.041	2	2.02	0.010	0.15	0.1	0.06	5.0	0.2	<0.05	6	<0.5
1364431	Soil			24	58	0.78	212	0.114	1	2.32	0.013	0.29	<0.1	0.03	7.3	0.3	<0.05	8	<0.5
1364434	Soil			19	32	0.63	327	0.079	3	1.33	0.029	0.07	0.2	0.05	4.5	<0.1	<0.05	4	<0.5
1364440	Soil			17	40	0.39	299	0.040	2	1.24	0.011	0.22	0.1	0.06	8.1	0.1	<0.05	5	<0.5
1364444	Soil			28	60	0.54	229	0.057	2	1.74	0.007	0.35	<0.1	0.07	10.7	0.2	<0.05	6	0.7
1348829	Soil			71	189	2.99	745	0.121	3	2.26	0.030	0.74	0.1	0.07	7.5	0.3	<0.05	7	<0.5
1374913	Soil			24	44	0.56	202	0.066	2	1.71	0.009	0.16	0.1	0.03	4.5	0.2	<0.05	5	<0.5
1374908	Soil			23	43	0.57	208	0.056	2	1.78	0.009	0.11	0.1	0.05	4.8	0.1	<0.05	7	<0.5
1374905	Soil			23	48	0.80	175	0.117	1	2.03	0.011	0.13	0.2	0.04	4.5	0.2	<0.05	7	<0.5
1348830	Soil			23	47	0.76	429	0.074	4	1.40	0.024	0.14	0.1	0.08	7.2	0.1	<0.05	5	<0.5
1374912	Soil			32	46	0.81	275	0.121	<1	1.96	0.009	0.41	<0.1	0.03	5.3	0.3	<0.05	7	<0.5
1374914	Soil			32	42	0.73	263	0.136	<1	1.86	0.010	0.43	0.1	0.02	4.9	0.3	<0.05	7	<0.5
1374906	Soil			32	53	0.80	253	0.069	1	1.80	0.009	0.19	0.1	0.05	6.1	0.2	<0.05	7	0.6
1348828	Soil			25	51	0.56	384	0.048	2	1.30	0.012	0.20	0.1	0.04	6.2	0.2	<0.05	4	<0.5
1348826	Soil			19	33	0.41	273	0.038	2	1.33	0.012	0.20	<0.1	0.02	8.3	0.1	<0.05	4	<0.5

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	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1374910	Soil	1.0	23.3	11.1	68	<0.1	26.4	12.4	354	3.19	10.5	1.1	1.2	8.6	22	<0.1	0.5	0.1	56	0.29	0.045
1374907	Soil	2.4	38.7	19.8	95	0.1	41.9	16.7	651	3.88	40.6	1.1	1.6	7.7	25	0.2	1.4	0.2	72	0.32	0.067
1348832	Soil	1.3	33.7	12.7	59	<0.1	34.5	11.2	355	2.97	99.8	1.0	3.0	7.7	29	<0.1	3.2	0.1	53	0.31	0.026
1348834	Soil	1.6	46.7	35.1	141	0.1	37.7	14.3	442	3.98	93.1	1.4	1.8	9.1	16	<0.1	5.5	0.4	63	0.18	0.018
1374911	Soil	1.0	22.9	8.8	95	<0.1	35.1	15.2	441	4.05	5.7	1.0	1.0	10.4	19	0.1	0.3	<0.1	58	0.24	0.049
1374909	Soil	1.6	21.2	14.8	69	<0.1	24.3	10.7	324	3.39	17.1	0.8	3.2	7.2	21	<0.1	0.6	0.2	64	0.25	0.046
1364442	Soil	1.2	31.9	23.6	66	<0.1	33.5	15.4	443	3.83	32.5	0.7	0.9	5.0	26	<0.1	0.6	0.2	72	0.33	0.037
1351417	Soil	2.5	34.3	24.3	104	0.2	37.5	14.9	819	3.10	14.7	1.8	1.1	5.3	120	0.4	0.5	0.2	56	1.31	0.084
1364432	Soil	2.2	57.1	20.3	101	0.1	65.4	24.3	798	4.99	16.0	1.6	4.3	8.6	32	0.2	0.4	0.2	111	0.34	0.082
1364435	Soil	1.4	57.9	24.3	134	0.1	134.5	33.1	521	6.29	11.8	1.6	1.5	16.0	89	<0.1	0.5	0.1	85	1.56	0.079
1364433	Soil	0.8	30.2	8.1	63	<0.1	26.1	10.3	414	2.37	9.9	0.8	2.7	4.3	62	0.3	0.7	0.1	53	1.56	0.088
1364439	Soil	2.5	32.3	30.2	80	<0.1	33.4	14.9	762	3.84	106.7	2.0	1.1	13.4	28	<0.1	1.7	0.1	42	0.30	0.021
1364438	Soil	1.7	40.1	17.0	82	<0.1	46.9	17.3	590	4.29	20.8	2.0	2.0	17.3	25	<0.1	0.7	0.1	57	0.31	0.022
1351420	Soil	1.4	46.1	16.5	82	<0.1	76.7	22.0	577	4.75	7.0	1.3	1.7	11.9	115	<0.1	0.4	0.1	64	0.65	0.127
1345721	Soil	2.3	67.0	14.0	122	<0.1	40.5	10.1	233	3.98	50.0	1.2	0.8	8.0	20	<0.1	2.7	0.2	84	0.10	0.054
1351419	Soil	1.6	43.9	16.8	86	<0.1	67.6	19.5	755	4.56	7.0	2.1	2.3	17.6	114	<0.1	0.6	0.1	68	0.90	0.256
1364430	Soil	1.4	26.1	15.0	75	<0.1	30.7	15.4	423	3.98	8.5	1.1	2.5	8.0	21	<0.1	0.3	0.1	61	0.18	0.040
1364426	Soil	1.1	23.9	11.2	77	<0.1	37.0	14.2	323	4.16	7.0	1.2	1.9	11.4	23	<0.1	0.4	0.1	63	0.28	0.034
1345725	Soil	2.2	63.4	14.6	113	0.1	39.1	9.0	213	3.82	46.7	1.1	<0.5	6.7	22	<0.1	2.4	0.2	81	0.11	0.053
1351422	Soil	2.6	83.9	16.4	121	0.1	498.7	68.5	1282	8.77	33.6	2.0	2.4	7.8	145	0.2	1.6	0.2	83	1.00	0.072
1364428	Soil	1.0	27.7	12.5	83	<0.1	30.9	14.7	412	3.72	5.4	1.4	0.7	12.6	20	<0.1	0.4	0.1	48	0.19	0.041
1351418	Soil	1.5	56.7	18.2	75	0.2	55.4	19.2	641	3.82	11.5	2.3	2.5	7.0	82	0.2	0.5	0.2	62	0.80	0.072
1345696	Soil	2.0	33.7	26.5	103	0.1	66.4	19.2	637	4.79	120.0	1.3	1.0	9.5	29	0.2	2.1	0.2	79	0.48	0.067
1345713	Soil	1.6	34.8	17.5	82	0.1	28.8	13.1	343	3.88	31.2	1.0	0.7	4.3	25	<0.1	1.1	0.2	88	0.31	0.084
1345716	Soil	1.3	20.6	15.2	57	<0.1	20.9	7.5	241	2.65	26.5	0.7	0.7	4.2	19	0.1	0.8	0.2	67	0.17	0.025
1345719	Soil	1.9	58.2	54.1	49	<0.1	18.5	5.1	100	2.29	77.8	1.7	<0.5	6.6	31	0.2	7.9	0.3	45	0.10	0.035
1345695	Soil	1.5	33.6	20.0	76	<0.1	30.9	12.6	494	3.54	41.4	1.6	1.2	6.7	35	0.2	1.3	0.2	72	0.53	0.043
1345711	Soil	1.8	30.8	24.4	83	0.2	31.0	10.8	382	3.11	39.0	1.0	6.7	3.6	28	0.2	1.6	0.3	72	0.26	0.053
1345710	Soil	1.1	34.0	29.5	97	0.2	44.5	12.7	417	3.55	64.3	1.7	<0.5	7.2	51	0.3	2.1	0.2	76	0.90	0.108
1345718	Soil	1.7	61.9	66.0	128	<0.1	50.9	14.0	323	4.41	49.4	1.9	<0.5	11.2	30	0.1	2.0	0.5	102	0.14	0.050

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Project: YELLOW  
Report Date: September 04, 2014

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## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201																	
		La	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	ppm	
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1374910	Soil	28	40	0.66	240	0.080	2	1.74	0.010	0.17	0.1	0.04	4.8	0.2	<0.05	5	<0.5	<0.2	
1374907	Soil	29	59	0.79	280	0.081	1	1.92	0.010	0.28	<0.1	0.04	6.6	0.2	<0.05	7	<0.5	<0.2	
1348832	Soil	14	32	0.45	180	0.045	2	1.14	0.011	0.09	0.1	0.08	5.5	<0.1	<0.05	3	<0.5	<0.2	
1348834	Soil	25	38	0.37	339	0.025	<1	1.47	0.006	0.05	0.1	0.32	7.0	0.1	<0.05	4	0.6	<0.2	
1374911	Soil	28	50	0.84	249	0.145	<1	2.09	0.011	0.63	<0.1	0.04	5.6	0.4	<0.05	7	<0.5	<0.2	
1374909	Soil	23	45	0.61	202	0.054	2	2.12	0.008	0.12	0.1	0.06	4.0	0.2	<0.05	7	<0.5	<0.2	
1364442	Soil	15	41	0.47	363	0.070	<1	1.40	0.011	0.27	0.1	0.04	7.8	0.1	<0.05	5	<0.5	<0.2	
1351417	Soil	23	43	0.63	310	0.047	2	1.22	0.013	0.22	<0.1	0.28	6.0	0.3	0.09	4	0.6	<0.2	
1364432	Soil	30	94	0.99	268	0.134	2	2.05	0.012	0.41	0.1	0.07	8.7	0.3	<0.05	8	0.6	<0.2	
1364435	Soil	49	161	1.70	543	0.162	2	2.40	0.018	0.93	<0.1	0.08	12.6	0.7	<0.05	9	<0.5	<0.2	
1364433	Soil	14	27	0.72	267	0.086	3	1.10	0.030	0.10	0.3	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2	
1364439	Soil	29	28	0.30	270	0.018	2	1.17	0.008	0.14	<0.1	0.07	7.2	0.1	<0.05	3	<0.5	<0.2	
1364438	Soil	35	48	0.59	320	0.144	2	1.86	0.010	0.64	0.1	0.04	8.8	0.4	<0.05	7	0.6	<0.2	
1351420	Soil	41	61	0.68	523	0.073	2	1.78	0.011	0.37	0.1	0.07	10.1	0.2	<0.05	6	<0.5	<0.2	
1345721	Soil	15	60	0.98	323	0.142	<1	1.86	0.009	0.73	<0.1	0.04	5.9	0.5	0.14	6	1.0	<0.2	
1351419	Soil	64	70	0.91	594	0.101	2	2.06	0.016	0.37	0.1	0.09	8.7	0.2	<0.05	7	<0.5	<0.2	
1364430	Soil	27	45	0.56	227	0.106	2	2.05	0.009	0.33	0.1	0.03	5.0	0.3	<0.05	7	<0.5	<0.2	
1364426	Soil	26	54	0.69	246	0.120	2	2.05	0.011	0.29	0.1	0.03	5.3	0.2	<0.05	7	<0.5	<0.2	
1345725	Soil	15	57	0.90	327	0.126	<1	1.87	0.009	0.64	<0.1	0.04	5.2	0.4	0.13	6	0.9	<0.2	
1351422	Soil	30	328	1.19	542	0.039	2	1.58	0.006	0.44	<0.1	0.13	17.4	0.3	<0.05	5	<0.5	<0.2	
1364428	Soil	27	40	0.53	199	0.096	<1	1.49	0.008	0.38	<0.1	0.03	5.8	0.3	<0.05	5	<0.5	<0.2	
1351418	Soil	43	49	0.61	480	0.052	2	1.52	0.012	0.25	0.1	0.28	10.3	0.2	<0.05	4	0.7	<0.2	
1345696	Soil	23	139	1.05	505	0.102	1	1.89	0.012	0.44	<0.1	0.06	10.3	0.3	<0.05	6	<0.5	<0.2	
1345713	Soil	16	32	0.84	447	0.131	1	1.69	0.014	0.33	0.1	0.06	5.6	0.2	<0.05	7	<0.5	<0.2	
1345716	Soil	13	35	0.49	232	0.060	2	1.48	0.009	0.10	0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2	
1345719	Soil	22	24	0.21	281	0.010	<1	0.95	0.004	0.10	<0.1	0.09	4.2	0.1	<0.05	3	1.1	<0.2	
1345695	Soil	24	50	0.60	649	0.082	2	1.71	0.017	0.20	0.1	0.05	6.9	0.2	<0.05	6	<0.5	<0.2	
1345711	Soil	17	34	0.43	521	0.054	1	1.32	0.010	0.17	<0.1	0.06	4.8	0.2	<0.05	5	<0.5	<0.2	
1345710	Soil	28	41	0.62	957	0.062	2	1.71	0.012	0.21	0.1	0.15	8.5	0.3	<0.05	5	0.8	<0.2	
1345718	Soil	24	65	0.73	360	0.091	1	1.84	0.007	0.30	<0.1	0.06	9.2	0.3	<0.05	7	0.5	<0.2	

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Project: YELLOW  
Report Date: September 04, 2014

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Part: 1 of 2

## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
1345694	Soil	1.4	28.9	17.8	65	<0.1	29.5	13.9	505	3.05	26.8	0.9	<0.5	5.7	28	0.2	1.0	0.2	67	0.38	0.043
1345709	Soil	0.9	42.7	18.1	99	0.2	36.1	12.1	638	2.92	45.4	1.6	<0.5	3.7	58	0.6	1.6	0.2	56	1.23	0.058
1345712	Soil	2.1	27.9	23.5	69	0.2	23.4	14.9	775	2.55	38.8	1.1	<0.5	2.3	26	0.3	0.8	0.2	62	0.21	0.062
1345717	Soil	1.4	38.0	31.9	100	<0.1	41.1	11.6	324	3.86	71.4	1.0	<0.5	5.4	20	0.2	2.2	0.3	84	0.19	0.053
1345693	Soil	1.5	32.7	26.3	66	0.2	29.1	16.3	806	3.47	37.2	1.2	1.7	5.8	45	0.2	1.3	0.2	73	0.74	0.043
1345697	Soil	2.6	74.1	33.2	114	0.1	83.2	25.6	870	4.61	111.0	1.4	1.5	8.2	88	0.3	3.3	0.2	110	1.59	0.120
1345714	Soil	1.6	28.1	19.6	73	0.1	24.6	7.3	243	3.01	32.9	1.0	<0.5	4.7	22	0.1	1.8	0.2	72	0.13	0.047
1345715	Soil	1.8	32.3	16.3	80	<0.1	26.5	6.6	189	2.92	39.0	1.1	<0.5	4.5	20	0.1	1.0	0.2	79	0.11	0.047
1345708	Soil	1.8	43.4	21.8	147	<0.1	43.2	17.9	1257	4.50	19.7	1.1	<0.5	7.9	26	0.2	0.8	0.2	104	0.43	0.078
1345699	Soil	1.0	39.6	13.5	84	0.1	19.4	21.3	646	4.19	6.5	1.1	<0.5	4.1	46	0.1	0.3	0.1	90	0.79	0.057
1345687	Soil	1.3	32.8	21.6	85	<0.1	37.4	17.0	474	4.51	33.5	0.9	<0.5	9.4	19	<0.1	1.8	0.2	70	0.18	0.028
1345692	Soil	1.3	42.5	18.6	72	0.2	39.2	15.1	539	3.75	24.7	1.3	3.5	8.8	37	<0.1	0.9	0.2	74	0.62	0.053
1345707	Soil	1.4	17.4	22.5	45	0.1	15.0	5.5	229	2.08	54.1	0.7	<0.5	3.3	22	0.2	1.0	0.2	60	0.16	0.028
1345702	Soil	1.0	44.3	53.8	77	0.2	49.3	17.6	716	3.88	19.0	3.1	<0.5	9.6	79	0.3	0.7	0.5	71	0.90	0.055
1374651	Rock Pulp	2.5	24.9	2.5	44	0.3	23.2	10.6	399	2.25	4.7	0.3	<0.5	1.0	42	0.2	0.3	<0.1	67	0.83	0.060
1345691	Soil	1.1	33.4	17.5	73	0.1	35.8	14.3	428	3.26	37.9	1.0	<0.5	5.6	46	0.2	1.2	0.2	73	0.84	0.061
1345706	Soil	1.6	34.1	42.7	87	0.1	35.0	12.6	393	3.59	43.3	1.5	2.2	10.4	32	0.2	1.5	0.4	69	0.28	0.055
1345722	Soil	1.1	19.9	14.6	57	<0.1	24.2	10.6	641	2.64	29.3	0.5	<0.5	3.3	22	0.1	0.7	0.2	69	0.24	0.053
1345688	Soil	1.4	34.8	38.9	69	0.2	37.4	18.3	935	3.77	147.8	1.5	<0.5	7.1	56	0.1	1.9	0.3	66	1.06	0.050
1345690	Soil	0.9	43.2	22.0	77	0.2	37.0	15.1	471	3.66	16.1	2.0	<0.5	8.1	51	0.1	1.0	0.3	93	0.84	0.063
1345705	Soil	1.3	40.3	29.2	64	0.2	37.5	12.8	370	2.94	13.5	2.2	<0.5	7.5	53	0.2	0.5	0.2	64	0.56	0.052
1345720	Soil	7.6	54.1	32.7	162	<0.1	64.6	7.1	242	3.81	152.4	4.0	<0.5	8.1	45	0.3	10.1	0.3	310	0.98	0.533
1345700	Soil	0.6	30.3	24.9	73	0.2	36.4	15.3	879	3.04	17.8	2.2	<0.5	8.1	92	0.2	0.6	0.2	59	0.97	0.048
1345689	Soil	1.0	56.2	20.9	67	0.2	65.1	20.4	591	3.87	49.0	3.2	<0.5	6.9	66	0.1	1.5	0.2	89	1.42	0.048
1374921	Soil	1.0	26.4	9.3	64	<0.1	30.5	12.2	293	3.56	11.4	1.1	<0.5	12.1	26	<0.1	0.7	0.1	58	0.37	0.014
1374923	Soil	1.5	30.3	16.8	68	<0.1	33.5	14.3	682	3.56	15.2	1.6	1.2	17.1	22	<0.1	0.7	0.1	47	0.35	0.042
1348833	Soil	0.8	19.2	9.7	40	<0.1	18.3	7.9	252	2.22	15.6	0.7	1.0	4.3	20	<0.1	0.6	0.1	47	0.25	0.026
1345698	Soil	0.9	24.0	30.4	118	<0.1	110.1	25.2	608	4.44	7.3	0.9	0.8	6.2	29	<0.1	0.3	0.2	109	0.41	0.057
1374919	Soil	1.1	36.4	12.9	59	<0.1	34.5	11.1	503	3.10	34.7	1.3	3.8	7.4	36	<0.1	1.4	0.1	57	0.46	0.019
1374925	Soil	0.7	24.7	10.6	51	<0.1	27.2	10.8	380	2.71	13.1	0.8	1.6	5.4	29	<0.1	0.8	0.2	57	0.46	0.019

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Project: YELLOW  
Report Date: September 04, 2014

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Part: 2 of 2

## CERTIFICATE OF ANALYSIS

WHI14000102.1

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
1345694	Soil			18	47	0.59	503	0.084	1	1.63	0.016	0.15	0.1	0.04	5.0	0.1	<0.05	5	<0.5
1345709	Soil			16	34	0.51	782	0.056	3	1.34	0.019	0.22	0.1	0.17	6.2	0.2	<0.05	4	1.0
1345712	Soil			15	31	0.36	326	0.045	2	1.13	0.009	0.14	0.2	0.05	3.6	0.2	<0.05	5	<0.5
1345717	Soil			14	45	0.61	255	0.055	1	1.76	0.007	0.17	<0.1	0.02	6.0	0.2	<0.05	5	<0.5
1345693	Soil			22	52	0.61	520	0.067	2	1.89	0.017	0.25	0.1	0.05	7.0	0.2	<0.05	6	<0.5
1345697	Soil			31	95	1.10	494	0.032	3	1.39	0.009	0.48	<0.1	0.21	14.2	0.4	<0.05	5	1.1
1345714	Soil			17	38	0.48	370	0.064	1	1.46	0.008	0.18	0.1	0.06	4.6	0.2	<0.05	5	<0.5
1345715	Soil			16	40	0.53	406	0.088	<1	1.56	0.011	0.26	<0.1	0.03	4.3	0.3	<0.05	7	<0.5
1345708	Soil			18	79	1.28	488	0.168	1	2.63	0.010	0.67	0.1	0.01	7.2	0.5	<0.05	9	<0.5
1345699	Soil			14	40	1.27	237	0.211	2	2.13	0.015	0.55	0.1	0.04	6.0	0.2	<0.05	7	<0.5
1345687	Soil			21	58	0.63	225	0.098	<1	1.79	0.008	0.36	<0.1	0.02	6.6	0.2	<0.05	6	<0.5
1345692	Soil			33	60	0.84	448	0.123	2	1.96	0.017	0.43	0.1	0.07	8.5	0.2	<0.05	6	<0.5
1345707	Soil			12	23	0.29	436	0.053	2	1.02	0.008	0.11	0.1	0.03	2.5	0.1	<0.05	4	<0.5
1345702	Soil			45	63	0.97	479	0.141	2	1.94	0.017	0.46	<0.1	0.07	7.7	0.3	0.07	6	<0.5
1374651	Rock Pulp			4	33	0.82	94	0.128	4	1.56	0.086	0.13	12.4	0.01	4.8	<0.1	0.05	5	<0.5
1345691	Soil			19	49	0.65	385	0.082	1	1.52	0.019	0.18	0.2	0.06	7.4	<0.1	<0.05	5	<0.5
1345706	Soil			28	49	0.69	500	0.111	<1	1.66	0.010	0.40	<0.1	0.05	5.6	0.4	<0.05	6	<0.5
1345722	Soil			11	36	0.45	310	0.054	2	1.74	0.009	0.06	0.1	0.02	3.1	0.1	<0.05	5	<0.5
1345688	Soil			25	60	0.79	493	0.084	2	1.95	0.013	0.42	0.1	0.08	8.5	0.3	<0.05	6	<0.5
1345690	Soil			35	60	0.79	400	0.117	1	1.85	0.019	0.30	0.1	0.05	9.0	0.2	<0.05	6	<0.5
1345705	Soil			65	54	0.71	485	0.122	2	1.72	0.015	0.38	0.1	0.05	5.9	0.3	<0.05	6	0.5
1345720	Soil			23	170	0.89	396	0.039	1	1.91	0.005	0.21	0.1	0.08	7.2	0.2	0.10	5	3.9
1345700	Soil			34	44	0.74	532	0.114	2	1.55	0.015	0.38	0.1	0.09	6.6	0.2	0.07	5	<0.5
1345689	Soil			32	69	0.80	624	0.094	3	1.73	0.017	0.34	<0.1	0.11	12.3	0.2	<0.05	6	0.8
1374921	Soil			18	41	0.55	261	0.118	2	1.72	0.011	0.38	0.1	0.02	6.0	0.3	<0.05	5	<0.5
1374923	Soil			48	39	0.39	301	0.059	2	1.34	0.013	0.37	<0.1	0.01	7.1	0.3	<0.05	5	<0.5
1348833	Soil			13	26	0.38	278	0.037	1	1.29	0.011	0.05	0.1	0.02	3.6	<0.1	<0.05	4	<0.5
1345698	Soil			15	472	2.43	215	0.196	2	2.77	0.012	0.52	<0.1	0.02	7.3	0.5	<0.05	11	<0.5
1374919	Soil			22	32	0.44	361	0.053	5	1.53	0.018	0.14	0.2	0.08	7.2	0.1	<0.05	4	0.6
1374925	Soil			19	33	0.48	347	0.067	2	1.48	0.019	0.15	0.2	0.03	6.0	<0.1	<0.05	4	<0.5

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Project: YELLOW  
Report Date: September 04, 2014

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## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1348831	Soil	1.3	35.6	12.8	57	<0.1	30.7	9.4	441	2.83	31.7	0.9	2.9	5.5	33	0.1	1.4	0.2	61	0.41	0.043
1345703	Soil	1.0	28.3	30.3	74	0.1	37.2	13.6	471	3.44	16.4	1.4	2.2	7.5	43	0.2	0.7	0.3	67	0.50	0.047
1374915	Soil	1.2	23.0	11.9	67	0.1	25.4	11.1	300	3.11	7.2	1.2	2.0	8.0	19	<0.1	0.3	0.1	51	0.21	0.051
1374920	Soil	1.0	26.0	12.3	54	<0.1	25.8	9.9	313	2.91	15.6	0.9	1.9	7.1	31	<0.1	0.8	0.1	55	0.50	0.023
1348827	Soil	1.4	25.1	19.2	57	<0.1	34.3	12.7	563	3.27	96.4	1.3	2.9	10.1	36	<0.1	1.8	0.1	41	0.32	0.026
1345704	Soil	1.1	36.2	29.4	87	0.2	36.2	14.3	525	3.62	18.0	2.0	3.9	9.5	53	0.1	0.8	0.3	73	0.57	0.057
1374918	Soil	1.4	37.2	12.5	100	0.2	43.7	20.3	784	4.06	16.7	1.2	1.6	9.5	32	<0.1	0.6	0.2	91	0.34	0.074
1374924	Soil	0.6	26.0	10.6	51	<0.1	28.0	11.2	424	2.85	13.3	0.8	2.3	5.5	30	<0.1	0.9	0.2	58	0.47	0.020
1374922	Soil	1.1	21.9	9.6	53	<0.1	25.8	11.7	677	2.75	12.0	0.6	4.7	4.5	25	<0.1	0.9	0.3	61	0.40	0.017
1348835	Soil	1.3	15.8	17.5	54	<0.1	17.0	7.4	264	2.78	12.8	0.4	2.3	2.6	15	<0.1	1.1	0.2	71	0.19	0.034
1374917	Soil	2.0	46.7	15.8	93	0.2	45.4	24.0	1121	3.80	28.3	1.4	0.9	10.7	57	0.1	0.7	0.2	68	0.58	0.080
1374916	Soil	1.0	32.6	13.0	97	<0.1	35.0	14.3	530	3.81	15.5	1.3	4.2	13.1	25	0.1	0.8	0.1	47	0.30	0.061

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Project: YELLOW  
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## CERTIFICATE OF ANALYSIS

WHI14000102.1

	Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	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	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1348831	Soil	17	39	0.47	309	0.070	3	1.53	0.012	0.11	0.1	0.05	6.7	<0.1	<0.05	4	0.7	<0.2
1345703	Soil	23	54	0.86	390	0.133	3	1.69	0.016	0.45	0.1	0.04	5.8	0.4	<0.05	6	<0.5	<0.2
1374915	Soil	30	37	0.60	277	0.087	1	1.82	0.011	0.32	<0.1	0.04	4.6	0.3	<0.05	7	<0.5	<0.2
1374920	Soil	21	34	0.45	353	0.056	3	1.47	0.013	0.16	0.1	0.05	6.0	0.1	<0.05	5	<0.5	<0.2
1348827	Soil	25	33	0.31	312	0.019	2	1.13	0.011	0.20	<0.1	0.09	8.0	0.2	<0.05	3	<0.5	<0.2
1345704	Soil	30	53	0.88	484	0.130	2	1.81	0.019	0.46	0.1	0.08	7.2	0.4	<0.05	7	<0.5	<0.2
1374918	Soil	32	76	1.33	462	0.148	2	2.47	0.016	0.60	0.1	0.06	6.3	0.4	<0.05	9	0.7	<0.2
1374924	Soil	20	33	0.47	360	0.069	2	1.48	0.020	0.14	0.1	0.02	6.0	<0.1	<0.05	4	<0.5	<0.2
1374922	Soil	14	34	0.42	342	0.059	2	1.64	0.014	0.15	0.1	0.02	5.0	0.2	<0.05	5	<0.5	<0.2
1348835	Soil	10	36	0.44	162	0.068	1	1.46	0.008	0.15	0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
1374917	Soil	44	58	1.16	500	0.109	3	2.07	0.014	0.61	<0.1	0.08	6.5	0.4	0.07	8	0.6	<0.2
1374916	Soil	35	37	0.64	305	0.093	1	1.49	0.011	0.41	0.1	0.05	6.2	0.4	<0.05	5	<0.5	<0.2

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## QUALITY CONTROL REPORT

WHI14000102.1

Method Analyte Unit MDL		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	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	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1385015	Soil	0.7	30.2	12.4	98	<0.1	39.9	19.8	500	4.72	4.2	1.2	<0.5	15.8	21	<0.1	0.2	0.1	79	0.34	0.096
REP 1385015	QC	0.7	28.5	12.0	94	<0.1	37.4	18.9	476	4.50	3.9	1.2	0.6	15.5	21	0.1	0.2	0.1	76	0.33	0.092
1349440	Soil	3.1	61.0	35.1	91	0.3	78.7	18.3	686	3.85	88.3	2.4	3.1	6.3	58	0.5	3.8	0.3	71	0.93	0.094
REP 1349440	QC	3.0	60.8	34.4	92	0.2	79.3	18.6	679	3.90	89.3	2.4	2.5	6.2	58	0.4	3.7	0.3	73	0.97	0.103
1364427	Soil	1.0	26.1	11.6	70	<0.1	28.4	13.7	313	3.68	5.8	1.2	2.0	12.6	18	<0.1	0.3	0.1	54	0.20	0.029
REP 1364427	QC	0.9	25.9	11.1	68	<0.1	27.9	13.3	307	3.58	5.6	1.2	1.9	12.1	19	<0.1	0.3	0.1	55	0.19	0.028
1345725	Soil	2.2	63.4	14.6	113	0.1	39.1	9.0	213	3.82	46.7	1.1	<0.5	6.7	22	<0.1	2.4	0.2	81	0.11	0.053
REP 1345725	QC	2.2	60.1	14.2	111	<0.1	37.9	9.2	215	3.83	47.1	1.1	<0.5	6.6	21	0.1	2.5	0.2	79	0.11	0.051
1374916	Soil	1.0	32.6	13.0	97	<0.1	35.0	14.3	530	3.81	15.5	1.3	4.2	13.1	25	0.1	0.8	0.1	47	0.30	0.061
REP 1374916	QC	1.0	31.5	13.2	94	<0.1	34.6	14.6	521	3.73	16.1	1.3	2.5	13.2	25	<0.1	0.8	0.1	45	0.29	0.060
Reference Materials																					
STD DS10	Standard	14.9	157.1	153.3	373	2.0	78.8	13.2	889	2.81	45.6	2.6	72.8	7.4	62	2.5	9.0	11.9	46	1.07	0.073
STD DS10	Standard	15.3	159.0	152.4	367	1.9	75.1	13.4	872	2.81	45.9	3.0	80.0	8.5	71	2.6	10.5	12.5	48	1.09	0.074
STD DS10	Standard	15.2	154.6	152.1	358	1.8	73.5	13.1	837	2.77	44.7	2.9	87.9	8.3	67	2.4	9.7	11.6	47	1.06	0.074
STD DS10	Standard	15.7	159.8	151.0	383	1.8	78.2	13.4	915	2.79	44.5	3.0	71.2	8.4	70	2.5	9.2	11.7	48	1.05	0.075
STD DS10	Standard	15.7	162.9	157.2	380	1.9	77.3	13.9	917	2.86	46.7	3.0	63.2	8.5	76	2.7	9.8	13.0	50	1.05	0.082
STD OXC109	Standard	1.5	35.8	11.1	43	<0.1	76.5	20.2	416	2.99	0.7	0.6	202.0	1.5	138	<0.1	<0.1	<0.1	49	0.67	0.107
STD OXC109	Standard	1.5	34.6	12.2	42	<0.1	70.8	19.4	407	2.92	0.5	0.7	195.3	1.6	143	<0.1	<0.1	<0.1	52	0.70	0.105
STD OXC109	Standard	1.5	37.0	12.0	42	<0.1	74.7	20.3	421	3.03	0.7	0.7	204.3	1.6	139	<0.1	<0.1	<0.1	54	0.73	0.110
STD OXC109	Standard	1.4	38.4	11.6	40	<0.1	75.1	19.8	400	2.93	0.8	0.6	179.0	1.6	131	<0.1	<0.1	<0.1	51	0.67	0.102
STD OXC109	Standard	1.4	37.2	12.0	39	<0.1	74.2	19.8	404	2.94	0.8	0.6	194.5	1.5	149	<0.1	<0.1	<0.1	52	0.74	0.106
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	2.59	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073
STD OXC109 Expected													201								
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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## QUALITY CONTROL REPORT

WHI14000102.1

	Method Analyte Unit MDL	AQ201																
		La	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	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1385015	Soil	36	93	1.20	340	0.234	1	2.47	0.010	0.88	0.2	0.02	6.5	0.5	<0.05	9	<0.5	<0.2
REP 1385015	QC	35	87	1.15	327	0.229	1	2.44	0.010	0.88	0.2	0.01	6.0	0.5	<0.05	8	<0.5	<0.2
1349440	Soil	32	62	0.72	383	0.032	3	1.35	0.011	0.22	0.1	0.14	11.2	0.2	<0.05	5	0.9	<0.2
REP 1349440	QC	32	62	0.73	385	0.031	3	1.39	0.011	0.23	0.2	0.14	11.0	0.3	<0.05	4	1.1	<0.2
1364427	Soil	27	39	0.61	172	0.129	2	1.72	0.008	0.42	<0.1	0.02	5.0	0.3	<0.05	6	<0.5	<0.2
REP 1364427	QC	26	39	0.57	170	0.128	<1	1.71	0.009	0.39	0.1	0.02	4.8	0.3	<0.05	6	<0.5	<0.2
1345725	Soil	15	57	0.90	327	0.126	<1	1.87	0.009	0.64	<0.1	0.04	5.2	0.4	0.13	6	0.9	<0.2
REP 1345725	QC	14	56	0.90	337	0.128	<1	1.89	0.008	0.64	<0.1	0.04	5.4	0.5	0.13	6	0.6	<0.2
1374916	Soil	35	37	0.64	305	0.093	1	1.49	0.011	0.41	0.1	0.05	6.2	0.4	<0.05	5	<0.5	<0.2
REP 1374916	QC	34	36	0.63	301	0.091	1	1.47	0.011	0.39	0.1	0.05	6.1	0.3	<0.05	5	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	17	57	0.77	368	0.073	7	1.01	0.067	0.32	3.3	0.30	2.8	5.2	0.29	4	2.3	5.0
STD DS10	Standard	19	57	0.76	366	0.081	7	1.07	0.070	0.34	3.6	0.31	3.0	5.3	0.26	5	2.4	5.3
STD DS10	Standard	19	55	0.78	381	0.082	8	1.04	0.063	0.33	3.4	0.30	3.2	5.0	0.27	5	2.2	5.0
STD DS10	Standard	20	58	0.81	345	0.093	8	1.14	0.073	0.33	3.2	0.28	3.1	5.2	0.31	4	1.9	5.1
STD DS10	Standard	20	60	0.82	375	0.092	6	1.13	0.071	0.34	3.2	0.29	3.0	4.7	0.29	5	1.8	5.0
STD OXC109	Standard	12	60	1.49	56	0.345	1	1.52	0.700	0.42	0.2	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	13	59	1.42	56	0.376	2	1.44	0.665	0.40	0.2	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	13	62	1.51	57	0.399	1	1.53	0.670	0.40	0.2	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	13	58	1.47	52	0.392	2	1.52	0.657	0.38	0.2	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	13	62	1.39	59	0.396	<1	1.56	0.661	0.41	0.2	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OXC109 Expected																		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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.



ALS USA Inc.  
4977 Energy Way  
Reno NV 89502  
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To: KINROSS GOLD CORPORATION  
9400 GATEWAY DRIVE, SUITE C  
RENO NV 89521

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Account: KGOLCO

**CERTIFICATE FA14128270**

P.O. No.: Yellow Project, Yukon  
This report is for 49 Rock samples submitted to our lab in Fairbanks, AK, USA on  
20- AUG- 2014.

The following have access to data associated with this certificate:

SELENE HOLDINGS

DAVID SZUMIGALA

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- 22c	Crush entire sample > 70% - 19 mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES

To: KINROSS GOLD CORPORATION  
ATTN: SELENE HOLDINGS  
9400 GATEWAY DRIVE, SUITE C  
RENO NV 89521

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





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CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP22 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	<10	10	<0.5	<2	0.01	<0.5	<1	15	3	0.01
W14843		2.34	0.002	<0.2	0.02	2	<10	10	<0.5	<2	0.05	<0.5	<1	15	3	0.32
W14844		1.34	0.003	1.3	0.07	9	<10	210	<0.5	7	0.04	<0.5	3	14	20	0.60
W14845		1.65	0.001	<0.2	0.08	38	<10	380	<0.5	<2	0.01	<0.5	1	16	21	0.73
W14864		1.95	0.005	<0.2	0.12	83	<10	240	<0.5	<2	0.01	<0.5	1	18	16	0.98
W14865		2.34	0.001	<0.2	0.22	<2	<10	130	<0.5	<2	0.06	<0.5	<1	5	2	0.28
W14866		2.06	0.001	<0.2	0.17	2	<10	30	<0.5	<2	0.07	<0.5	2	16	5	0.50
W14867		1.69	0.001	<0.2	0.16	<2	<10	10	<0.5	<2	0.02	<0.5	1	17	2	0.31
W14868		1.75	0.002	<0.2	0.27	2	<10	640	<0.5	<2	0.07	<0.5	2	9	3	0.60
W14869		0.31	0.001	<0.2	0.06	2	<10	30	<0.5	<2	0.02	<0.5	1	13	3	0.50
W14870		2.79	0.033	0.5	0.16	88	<10	180	<0.5	<2	0.02	<0.5	<1	15	6	0.52
W14871		0.93	0.001	<0.2	0.16	9	<10	80	<0.5	<2	0.03	<0.5	2	11	7	0.74
W14872		0.71	0.001	<0.2	0.04	2	<10	50	<0.5	<2	0.03	<0.5	1	13	5	0.36
W14873		1.95	0.001	<0.2	0.12	<2	<10	20	<0.5	<2	0.04	<0.5	2	15	7	0.36
W14874		1.33	0.001	0.4	0.18	<2	<10	1280	<0.5	2	0.03	<0.5	<1	10	2	0.50
W14875		2.29	0.001	<0.2	0.01	3	<10	420	<0.5	<2	0.04	<0.5	<1	17	1	0.33
W14876		1.22	0.001	<0.2	0.31	2	<10	140	<0.5	<2	0.02	<0.5	1	17	10	0.87
W14877		1.39	0.001	<0.2	0.10	5	<10	2270	<0.5	<2	0.25	<0.5	3	21	8	0.91
W14878		0.70	0.001	<0.2	0.23	7	<10	2310	0.7	<2	0.05	<0.5	11	50	31	2.15
W14879		0.73	0.001	<0.2	0.12	2	<10	330	<0.5	<2	0.01	<0.5	1	11	1	0.44
W14880		1.20	0.001	<0.2	0.13	<2	<10	70	<0.5	<2	0.08	<0.5	1	16	4	0.55
W14881		1.49	0.001	<0.2	0.19	2	<10	150	<0.5	<2	0.02	<0.5	1	9	8	0.82
W14882		0.11	1.005													
W16173		1.96	0.010	0.3	0.19	234	<10	1500	<0.5	2	0.01	<0.5	1	17	59	1.37
W16174		2.50	0.001	<0.2	1.46	17	<10	150	0.7	<2	2.81	<0.5	24	14	13	6.18
W16175		3.15	0.001	<0.2	0.24	<2	<10	1110	<0.5	<2	0.02	<0.5	<1	4	1	0.31
W16176		1.43	0.001	<0.2	0.36	2	<10	70	<0.5	<2	0.37	<0.5	4	21	14	1.22
W16177		2.51	0.001	<0.2	0.14	<2	<10	550	<0.5	2	0.46	<0.5	<1	8	3	0.40
W16178		1.70	0.001	<0.2	0.68	<2	<10	60	<0.5	2	0.07	<0.5	5	19	10	1.38
W16179		1.94	<0.001	<0.2	0.27	8	<10	80	<0.5	<2	0.03	<0.5	12	20	24	2.27
W16180		2.09	0.002	<0.2	0.81	4	<10	80	<0.5	<2	0.04	<0.5	8	14	30	2.17
W16181		2.24	0.001	<0.2	0.15	38	<10	130	<0.5	<2	0.01	<0.5	3	17	7	0.78
W16182		2.30	0.001	<0.2	0.15	8	<10	120	<0.5	2	0.02	<0.5	3	10	125	1.53
W16183		1.06	0.036	<0.2	0.92	<2	<10	140	0.5	<2	0.75	<0.5	3	5	1	1.89
W16184		1.01	0.001	<0.2	0.18	2	<10	100	<0.5	<2	0.03	<0.5	2	18	4	0.64
W16185		0.79	0.001	<0.2	0.18	12	<10	260	<0.5	<2	3.15	<0.5	54	863	9	3.59
W16186		2.48	0.001	<0.2	0.33	55	<10	60	<0.5	<2	0.08	<0.5	9	15	19	1.49
W16187		0.32	0.001	<0.2	0.07	37	<10	180	<0.5	<2	0.03	<0.5	1	12	5	0.52
W16188		2.38	<0.001	<0.2	0.17	3	<10	190	<0.5	<2	0.03	<0.5	2	5	7	0.74
W16189		1.58	<0.001	<0.2	0.27	2	<10	120	<0.5	<2	0.12	<0.5	6	13	5	1.37
W16190		1.95	<0.001	<0.2	0.03	<2	<10	300	<0.5	<2	0.17	<0.5	1	21	4	0.58

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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RENO NV 89521

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Plus Appendix Pages  
Finalized Date: 11- SEP- 2014  
Account: KGOLCO

# CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
W14843		<10	<1	0.01	<10	0.01	35	<1	<0.01	2	10	<2	<0.01	<2	<1	2
W14844		<10	<1	0.04	<10	0.01	56	<1	<0.01	8	80	134	0.03	<2	1	5
W14845		<10	<1	0.03	<10	<0.01	31	<1	<0.01	2	120	7	0.03	<2	1	16
W14864		<10	<1	0.07	<10	0.01	91	1	<0.01	16	130	24	<0.01	2	2	7
W14865		<10	<1	0.18	<10	0.01	28	<1	0.03	1	170	12	0.01	<2	<1	16
W14866		<10	<1	0.10	<10	0.06	84	<1	0.01	3	90	4	<0.01	<2	1	14
W14867		<10	<1	0.06	<10	0.03	41	<1	0.02	2	40	3	<0.01	<2	<1	5
W14868		<10	<1	0.06	<10	0.03	163	<1	<0.01	5	110	38	0.01	<2	1	12
W14869		<10	<1	0.02	<10	0.01	49	<1	<0.01	2	70	5	<0.01	<2	<1	8
W14870		<10	<1	0.11	<10	0.01	32	1	<0.01	10	30	5	0.04	12	1	17
W14871		<10	<1	0.07	<10	0.02	85	<1	<0.01	4	70	14	<0.01	2	1	4
W14872		<10	<1	0.02	<10	0.01	41	<1	<0.01	3	120	5	<0.01	<2	<1	4
W14873		<10	<1	0.03	<10	0.01	30	<1	0.06	3	180	<2	<0.01	<2	<1	8
W14874		<10	<1	0.11	<10	0.05	128	1	0.03	1	50	51	0.03	<2	<1	50
W14875		<10	<1	0.01	<10	<0.01	67	<1	<0.01	1	10	2	0.01	<2	<1	9
W14876		<10	<1	0.16	<10	0.13	127	<1	0.02	6	130	11	0.02	<2	1	15
W14877		<10	<1	0.02	<10	0.07	361	<1	<0.01	13	60	11	0.06	<2	1	35
W14878		<10	<1	0.05	<10	0.06	423	<1	0.01	40	160	7	0.05	<2	6	40
W14879		<10	<1	0.05	<10	0.01	65	<1	0.02	1	20	<2	<0.01	<2	<1	7
W14880		<10	<1	0.04	<10	0.09	76	<1	0.02	2	50	<2	<0.01	<2	1	8
W14881		<10	<1	0.08	10	0.04	49	2	0.07	1	80	9	0.12	<2	1	20
W14882		<10	<1	0.08	<10	0.01	32	2	<0.01	10	190	11	0.06	7	1	27
W16173		10	<1	0.22	30	1.66	1145	1	0.20	11	5870	6	0.13	2	12	263
W16174		<10	<1	0.11	<10	0.01	31	1	0.01	1	20	2	0.04	<2	<1	18
W16175		<10	<1	0.22	<10	0.24	192	<1	0.01	7	120	2	<0.01	<2	1	9
W16176		<10	<1	0.11	<10	0.01	235	<1	0.02	1	50	13	0.01	<2	<1	51
W16177		<10	<1	0.42	10	0.26	177	<1	0.02	10	230	10	<0.01	<2	2	6
W16178		<10	<1	0.11	10	0.05	233	<1	0.02	21	120	11	<0.01	<2	5	17
W16179		<10	<1	0.26	20	0.29	167	1	0.01	18	200	2	<0.01	<2	2	7
W16180		<10	<1	0.09	<10	0.01	206	<1	<0.01	5	30	10	<0.01	<2	1	7
W16181		<10	<1	0.14	<10	0.01	184	<1	0.01	6	70	6	<0.01	<2	1	22
W16182		10	<1	0.36	30	0.38	431	2	0.06	2	670	11	0.03	2	2	66
W16183		<10	1	0.07	10	0.05	92	<1	0.01	4	40	3	0.01	2	1	7
W16184		<10	<1	0.01	<10	12.30	786	<1	<0.01	1030	20	<2	0.07	<2	5	810
W16185		<10	1	0.11	<10	0.08	309	<1	<0.01	15	50	10	0.01	7	2	9
W16186		<10	<1	0.02	<10	0.02	64	<1	<0.01	3	30	3	0.02	2	<1	7
W16187		<10	<1	0.09	<10	0.02	108	<1	0.03	4	100	9	0.02	<2	1	27
W16188		<10	<1	0.18	10	0.03	286	<1	0.02	9	530	10	0.01	3	2	37
W16189		<10	<1	0.01	<10	0.02	172	<1	<0.01	4	30	2	0.02	<2	<1	4
W16190		<10	<1	0.01	<10	0.02	172	<1	<0.01	4	30	2	0.02	<2	<1	4

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Account: KGOLCO

CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
W14843		<20	<0.01	<10	<10	1	<10	2
W14844		<20	<0.01	<10	<10	6	<10	10
W14845		<20	<0.01	<10	<10	18	<10	6
W14864		<20	<0.01	<10	<10	15	<10	56
W14865		<20	<0.01	<10	<10	1	<10	3
W14866		<20	0.03	<10	<10	10	<10	6
W14867		<20	<0.01	<10	<10	1	<10	2
W14868		<20	<0.01	<10	<10	5	<10	9
W14869		<20	<0.01	<10	<10	4	<10	3
W14870		<20	<0.01	<10	<10	9	<10	12
W14871		<20	<0.01	<10	<10	4	<10	11
W14872		<20	<0.01	<10	<10	4	<10	4
W14873		<20	<0.01	<10	<10	2	<10	2
W14874		<20	<0.01	<10	<10	13	<10	21
W14875		<20	<0.01	<10	<10	<1	<10	<2
W14876		<20	0.02	<10	<10	11	<10	18
W14877		<20	<0.01	<10	<10	8	<10	15
W14878		<20	0.01	<10	<10	47	<10	46
W14879		<20	<0.01	<10	<10	2	<10	2
W14880		<20	0.02	<10	<10	12	<10	6
W14881		<20	0.02	<10	<10	5	<10	3
W14882		<20	<0.01	<10	<10	16	<10	37
W16173		<20	0.18	<10	<10	143	<10	129
W16174		<20	<0.01	<10	<10	<1	<10	2
W16175		<20	<0.01	<10	<10	<1	<10	2
W16176		<20	0.05	<10	<10	22	<10	14
W16177		<20	<0.01	<10	<10	1	<10	20
W16178		<20	0.06	<10	<10	13	<10	20
W16179		<20	0.01	<10	<10	26	<10	54
W16180		<20	0.02	<10	<10	10	<10	45
W16181		<20	<0.01	<10	<10	4	<10	10
W16182		<20	<0.01	<10	<10	46	<10	23
W16183		20	0.12	<10	<10	29	<10	48
W16184		<20	0.01	<10	<10	5	<10	7
W16185		<20	<0.01	<10	<10	20	<10	17
W16186		<20	<0.01	<10	<10	9	<10	27
W16187		<20	<0.01	<10	<10	4	<10	4
W16188		<20	<0.01	<10	<10	15	<10	24
W16189		<20	<0.01	<10	<10	11	<10	26
W16190		<20	<0.01	<10	<10	4	<10	4

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CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP22 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W16191		1.65	0.001	<0.2	0.17	6	<10	2640	<0.5	<2	0.02	<0.5	1	9	1	0.46
W16192		1.61	0.001	<0.2	1.30	<2	<10	350	<0.5	<2	1.02	<0.5	18	17	40	3.17
W16193		0.11	0.415													
W18613		1.97	0.001	<0.2	0.05	4	<10	20	<0.5	<2	0.02	<0.5	1	23	2	0.24
W18614		2.27	0.001	<0.2	0.05	5	<10	20	<0.5	<2	0.01	<0.5	1	19	2	0.32
W24397		2.01	0.001	<0.2	0.18	3	<10	20	<0.5	<2	0.03	<0.5	1	15	1	0.56
W24398		2.73	0.001	<0.2	0.71	<2	<10	80	<0.5	<2	0.06	<0.5	5	28	8	1.47
W24399		1.39	0.001	<0.2	0.04	2	<10	40	<0.5	<2	0.01	<0.5	<1	14	2	0.42
W24400		1.73	0.001	<0.2	0.21	5	<10	150	<0.5	<2	0.02	<0.5	2	12	6	1.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS USA Inc.  
4977 Energy Way  
Reno NV 89502  
Phone: 775 356 5395 Fax: 775 355 0179 www.alsglobal.com

To: KINROSS GOLD CORPORATION  
9400 GATEWAY DRIVE, SUITE C  
RENO NV 89521

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Total # Pages: 3 (A - C)  
Plus Appendix Pages  
Finalized Date: 11- SEP- 2014  
Account: KGOLCO

CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
W16191		<10	<1	0.10	<10	0.01	135	<1	<0.01	1	20	5	0.07	2	<1	26
W16192		10	<1	0.42	<10	0.93	410	<1	0.14	7	650	<2	0.02	<2	7	36
W16193																
W18613		<10	<1	0.01	<10	0.01	33	<1	0.01	1	30	<2	0.01	<2	<1	2
W18614		<10	<1	0.03	<10	0.02	33	<1	<0.01	1	10	<2	0.01	<2	<1	1
W24397		<10	1	0.11	<10	0.07	95	<1	0.01	2	60	<2	0.01	<2	<1	2
W24398		<10	1	0.47	10	0.32	225	<1	0.03	11	170	7	0.02	2	3	8
W24399		<10	1	0.01	<10	0.01	44	<1	<0.01	2	20	<2	0.01	2	<1	1
W24400		<10	<1	0.14	<10	0.02	69	<1	0.02	5	200	8	0.02	2	1	12

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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CERTIFICATE OF ANALYSIS FA14128270

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
W16191		<20	<0.01	<10	<10	3	<10	6
W16192		<20	0.21	<10	<10	109	<10	36
W16193								
W18613		<20	<0.01	<10	<10	1	<10	<2
W18614		<20	<0.01	<10	<10	1	<10	<2
W24397		<20	0.01	<10	<10	3	<10	3
W24398		<20	0.09	<10	<10	20	<10	22
W24399		<20	<0.01	<10	<10	2	<10	2
W24400		<20	0.01	<10	<10	12	<10	23

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 11-SEP-2014  
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CERTIFICATE OF ANALYSIS FA14128270

	CERTIFICATE COMMENTS			
	LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Fairbanks located at 1060 Bush Street, Fairbanks, AK, USA.			
	CRU- 22c	CRU- 31	CRU- QC	LOG- 21
	LOG- 24	PUL- 31	PUL- QC	SPL- 21
	WEI- 21			
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au- ICP22	ME- ICP41		

## 6.6 Appendix 6: Statement of expenditure.



QUARTZ MINING ACT FORM 4 SECTION 56  
APPLICATION FOR A CERTIFICATE OF WORK

I, David L. Emmons,

of Reno, Nevada, US

Phone 1-303-802-1455

Client I.D. Number: \_\_\_\_\_

make oath and say that:

Office Date Stamp

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work, on the following mineral claim(s): (Here list claims on which work was actually done by number and name)

Work was done on 35 claims: see attached list.

situated at West of the Yukon River Claim sheet No. 115005

in the Dawson Mining District, to the value of at least \$36,853.57 dollars,

since the 10 day of July 20 14,

to represent the following mineral claims under the authority of Grouping Certificate No. HD03161.

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

See attached list Yellow Group: 166 claims

Note: Expenditures are sufficient for more than two year's of work requirements, through February 15, 2017

and February 15, 2018. See attached claim list with new requested renewal dates per claim.

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).

Analytical Assays of soil and rock samples: Acme Labs and ALS Minerals

Soils Geochemical Survey: Ground Truth Exploration, Dawson

Transport: Trans North Helicopters, Dawson

Fieldwork, data preparation, and reporting: Szumigala, Colburn, Emmons (geologists) -- See details attached.

Sworn before me at State of Nevada, Washoe County this 8th day of January 20 15.

[Signature] Notary Public  
OMAR LOPEZ  
NOTARY PUBLIC  
STATE OF NEVADA  
APPT No 13-9862-2  
MY APPT EXPIRES APR 30 2018  
David L. Emmons  
Owner or Authorized Agent

Access to Information and Protection of Privacy Act

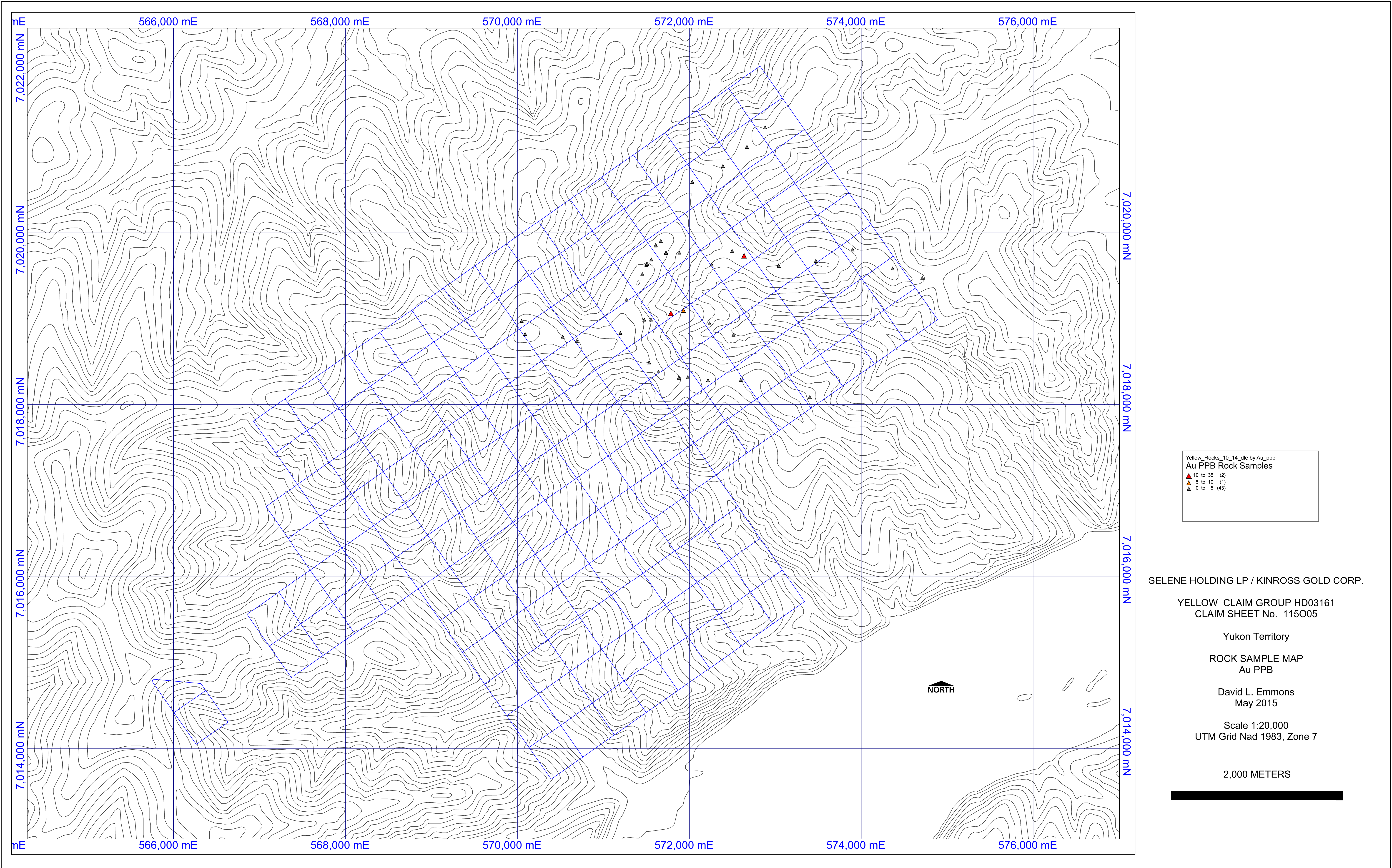
The personal information requested on this form is collected under the authority of and used for the purpose of administering the Quartz Mining Act. Questions about the collection and use of this information can be directed to the Mining Records Office, Mineral Resources, Department of Energy, Mines and Resources, Yukon Government, Box 2703, Whitehorse, Yukon Territory, Y1A 2C6 (867) 667-3190

Claims	White Gold Project, Yukon 2014-2015 Exploration Expenditures				
<b>Yellow</b>	<b>Item</b>	<b>Number Samples</b>	<b>Cost</b>	<b>Invoice</b>	<b>Date</b>
<b>166 claims</b>	Ground Truth	161	\$ 3,089.36	GT-YEL2014-01	22-Aug-14
	Trans North Helicopters		\$ 16,936.84	2585, 2593	15-Aug-14
	Acme Labs - Soils		\$ 3,066.40	VANI209642	23-Sep-14
	ALS Minerals - Rocks	49	\$ 1,332.97	3196937	11-Sep-14
	Geologist Time & Expenses		\$ 12,428.00	See Detail Spreadsheet	
	<b>Total</b>		\$ 36,853.57		
	Note: The number of samples includes standards and blanks.				
			\$ 16,600.00	Required for 1 year	
			\$ 33,200.00	Required for 2 years	
			\$ 3,653.57	Overspent for 2 years	

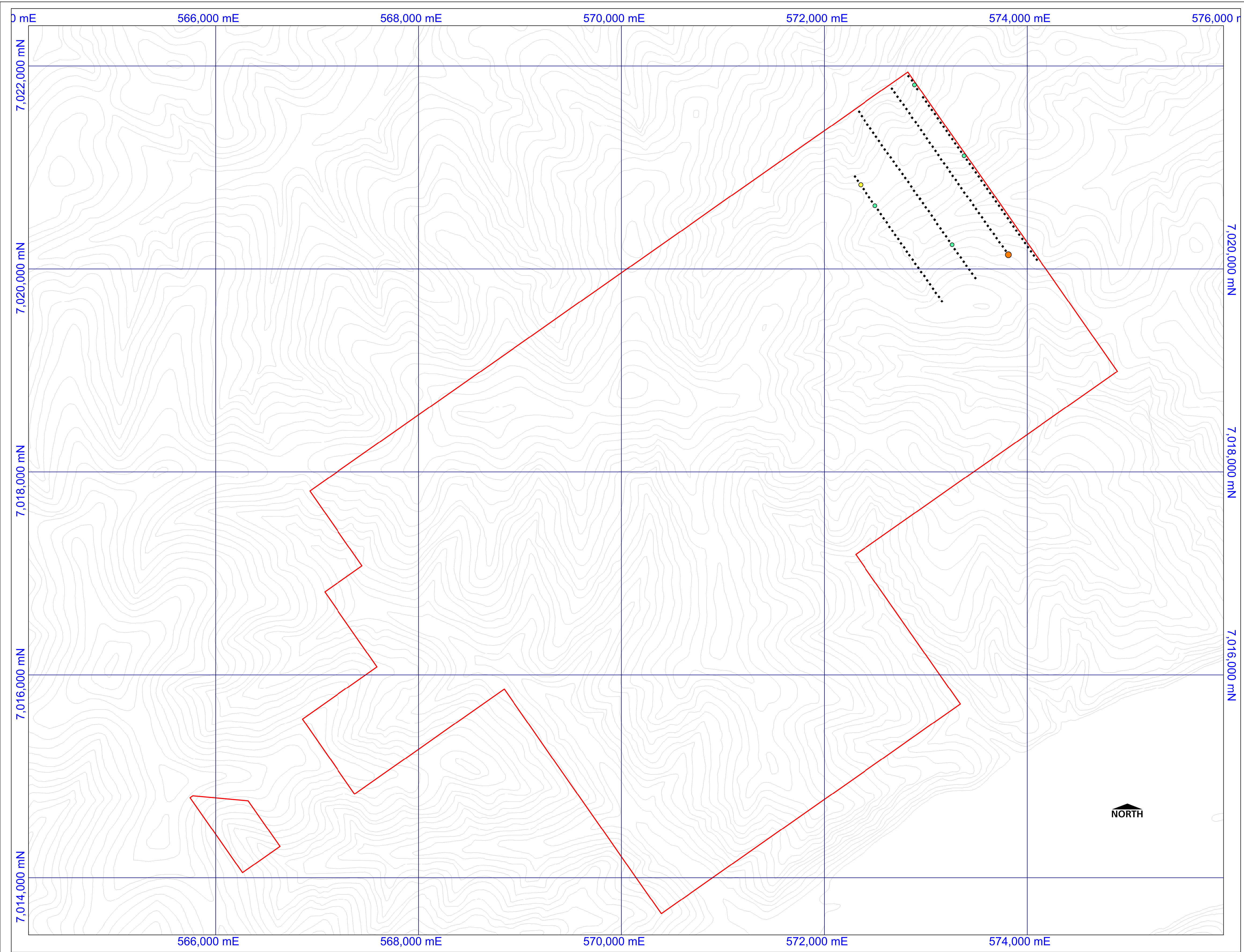
Detail of time sheet Yellow Claims					
Date	Geologist	Title	Cost	Location	Description
8/7/14 - 8/10/14	David Szumigala	Principal Exploration Geologist, Alaska	\$ 3,920.00	Yellow Claims & Dawson	Fieldwork - rock sampling.
8/7/14 - 8/10/14	Shawn Colburn	Geologist	\$ 2,360.00	Yellow Claims & Dawson	Fieldwork - rock sampling.
7/22/14, 8/13/14 - 8/14/14	Shawn Colburn	Geologist	\$ 1,416.00	Fairbanks (Yellow)	Planning, data compilation, field preparation
8/13/14 - 8/14/14, 8/18/14-8/21/14	David Szumigala	Principal Exploration Geologist, Alaska	\$ 1,960.00	Fairbanks	Sample Preparation, write sample descriptions
7/10/14, 7/11/14, 8/1/14	David Szumigala	Principal Exploration Geologist, Alaska	\$ 980.00	Fairbanks	Planning, geological research, field preparation
8/4/2014	David Szumigala	Principal Exploration Geologist, Alaska	\$ 196.00	Yukon Territory	Drive from Fairbanks to Dawson
8/4/2014	Shawn Colburn	Geologist	\$ 118.00	Yukon Territory	Drive from Fairbanks to Dawson
8/11/2014	David Szumigala	Principal Exploration Geologist, Alaska	\$ 392.00	Dawson	prepare for travel, drive from Dawson
8/11/2014	Shawn Colburn	Geologist	\$ 236.00	Dawson	prepare for travel, drive from Dawson
12/11/2014	David Emmons	Senior Exploration Manager	\$ 850.00	Reno, Nevada	Preparation of "Application for a Certificate of Work"
Total Yellow Claims			\$ 12,428.00		
David Szumigala, Principal Geologist, Fairbanks Gold Mining, Kinross Gold Corp, Fairbanks, Alaska					
Shawn Colburn, Geologist, Fairbanks Gold Mining, Kinross Gold Corp, Fairbanks, Alaska					
David Emmons, Sr. Exploration Manager, Kinross Gold Corp, Reno, Nevada					

## 6.7 Appendix 7: Thematic maps for Au









Yellow\_RP\_2014SoilsMerged\_dle by Au\_PPb  
Au PPB Soil Samples

●	30 to 100	(1)
●	10 to 30	(4)
●	5 to 10	(30)
●	-999 to 5	(417)

SELENE HOLDING LP / KINROSS GOLD CORP.

YELLOW CLAIM GROUP HD03161  
CLAIM SHEET No. 115005

Yukon Territory

SOIL SAMPLE MAP  
Au PPB

David L. Emmons  
May 2015

Scale 1:20,000  
UTM Grid Nad 1983, Zone 7



2,000 METERS



## 6.8 Appendix 8: Digital copy