

<b>TYPE OF REPORT (type of survey(s))</b>	<b>TOTAL COST</b>	<b>\$32,585.34</b>
Geochemical Sampling and Mapping		

AUTHOR(S) \_\_\_\_\_ SIGNATURE(S) \_\_\_\_\_  
R. T. Henneberry "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S) \_\_\_\_\_ YEAR OF WORK 2014

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 5518840

PROPERTY NAME Princeton Project

CLAIM NAME(S) (on which work was done) Placer Creek 1 577664, Placer Creek 2 577665, Placer Creek 4 577668  
Placer Mountain 1 577671, Placer Mountain 2 577672, Placer Mountain 6 577679, Placer Mountain 4 600232, Placer  
Creek East 629212, Placer Mountain A 706153, Placer Creek 3 712302

COMMODITIES SOUGHT Gold

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN \_\_\_\_\_

MINING DIVISION Similkameen

NTS: 092H/01, 092H/02 TRIM 092H018

LATITUDE \_\_\_\_\_ LONGITUDE \_\_\_\_\_ (at centre of work)  
NORTHING 5448000 EASTING 684500 UTM ZONE 10 MAP DATUM NAD 83

OWNER 1 Sydney Wilson OWNER 2 \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
1601 – 2075 Comox Street \_\_\_\_\_  
Vancouver, B.C. V6G 1S2 \_\_\_\_\_

OPERATORS (who paid for work) \_\_\_\_\_  
1007879 B.C. Ltd. \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
Suite 1780 – 400 Burrard Street \_\_\_\_\_  
Vancouver, B.C. V6C 3A6 \_\_\_\_\_

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)  
The Princeton Project is largely underlain by Triassic Nicola Group volcanics in the northwest and Eocene  
Princeton volcanics and intrusives over the remainder of the claim block, based on geological mapping. Road  
soil sampling was completed over outer areas from the main quartz vein zone.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS  
30654, 31762, 31933, 31962, 32838, 34468

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (In Metric Units)	On Which Claims	Project Costs Apportioned
GEOLOGICAL (scale, area)			
Ground, mapping		All claims	
Photo Interpretation			
GEOPHYSICAL (line kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Siesmic			
Other			
Airborne			
GEOCHEMICAL			
(number of samples analyzed for)			
Soil	383	All except 577672	
Silt			
Rock	7	577665, 577672, 629212, 712302	
Other			
DRILLING			
(total metres, number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / assaying			
Petrographic			
Mineralogical			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATION / PHYSICAL			
Line/grid (kilometres)			
Topographic / Photogrammatic (scale, area)			
Legal Surveys (scale, area)			
Road, local access (kilometres)			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	<b>\$32,585.34</b>

# **MAMMOTH GEOLOGICAL LTD.**

2446 Bidston Road,  
Mill Bay, B.C. Canada V0R 2P4

Phone: (250) 743-8228 Fax: (250) 743-4430  
email : mammothgeo@shaw.ca

**BC Geological Survey  
Assessment Report  
35073**

## 2014 GEOLOGICAL AND GEOCHEMICAL REPORT

### PRINCETON PROJECT

Located in the Princeton Area, British Columbia  
Similkameen Mining Division  
TRIM Sheet 092H018  
UTM (NAD 83) ZONE 10 684500E 5448000N

FOR

**1007879 B.C. Ltd.**  
Suite 1780 - 400 Burrard Street  
Vancouver, BC V6C 3A6

By: R. Tim Henneberry, P.Geo.  
August 25, 2014

## SUMMARY

The Princeton Property is being explored for auriferous, polymetallic, quartz vein mineralization. The 3,443 hectare property is road accessible and located approximately 35 kilometres south of Princeton, British Columbia. 1007879 B.C. Ltd. is earning a 100% interest, subject to a 2% Net Smelter Return (NSR) royalty by issuing 2,500,000 shares and completing \$2,000,000 in exploration expenditures over the next 4 years.

The Princeton Project lies within an area of high geological potential in the Princeton area. While most of the focus has been on porphyry copper, prior exploration conducted by the property vendor and on the vendor's behalf by Windfire Capital Corp., suggests that the Princeton Project and surrounding area have excellent potential to host vein-hosted gold mineralization.

The 2014 program that forms the basis of this report was directed at following up some of the lesser rock sampling anomalies and testing much of the remainder of the property by road soil sampling, in addition to preliminary mapping of the property. The July 2014 program consisted of geological mapping and the collection of 383 road soil samples and 8 grab rock samples.

The mapping showed the property is by underlain Triassic Nicola Group volcanics in the northwest and Eocene Princeton Group volcanics and intrusives throughout the remainder of the property. The road soil sampling showed the Nicola volcanics are anomalous in gold and copper, with a large 300 metre by 300 metre area of anomalous copper soil values highlighted. Gold anomalies in the Nicola volcanics consisted of numerous spot anomalies. Very few gold anomalies and minimal copper anomalies were located in the Princeton Group rocks. The rock sampling found one weakly anomalous gold value in a bleached area within Princeton volcanics.

The target on the Princeton Project remains Area 2, where 2010 and 2011 grab and chip rock sampling found 13 of 36 samples returning gold values in excess of 10,000 ppb gold, or 10 grams per tonne, to a maximum of 66,237 ppb or 66.2 grams per tonne gold. The samples were collected from three separate areas enclosing sub rounded to angular quartz float and outcrop comprising rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite. Several of the samples exhibit remnant vugs or cellular box work structure. Follow up 2011 grid soil sampling surveys indicate Area 2 hosts multiple, linear, parallel gold-in-soil anomalies with the strongest anomaly striking a minimum of 500 metres to a maximum of 650 metres in a northwestern direction.

Further exploration, consisting of geological mapping on the grid area, prospecting and hand trenching of the other 2011 anomalies and excavator trenching of the Area 2 veins is recommended at a cost of \$240,000. Diamond drilling will follow based on the trenching results.

The cost of the July 2014 mapping and road soil sampling program was \$32,585.34.



## TABLE OF CONTENTS

INTRODUCTION .....	4
RELIANCE ON OTHER EXPERTS .....	4
PROPERTY DESCRIPTION AND LOCATION .....	5
ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY .....	8
HISTORY .....	8
GEOLOGICAL SETTING .....	10
Princeton Property Area Geology .....	11
Princeton Property Geology .....	12
Mineralization .....	14
DEPOSIT TYPES .....	15
EXPLORATION .....	18
DRILLING .....	23
SAMPLE PREPARATION, ANALYSES AND SECURITY .....	23
DATA VERIFICATION .....	25
MINERAL PROCESSING AND METALLURGICAL TESTING .....	25
MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES .....	25
ADJACENT PROPERTIES .....	26
OTHER RELEVANT DATA AND INFORMATION .....	26
INTERPRETATION AND CONCLUSIONS .....	26
RECOMMENDATIONS .....	27
REFERENCES .....	29
CERTIFICATE .....	30
STATEMENT OF COSTS .....	31

## LIST OF FIGURES

Figure 1. Property Location .....	4
Figure 2. Claim Location (092H018) .....	7
Figure 3. Regional Geology .....	10
Figure 4. Princeton Property Geology .....	14
Figure 5. Mineralized Areas .....	16
Figure 6. Road Soil Sample Locations .....	18
Figure 7a. Nicola Group Road Soils Gold .....	19
Figure 7b. Nicola Group Road Soils Copper .....	20
Figure 7c. Princeton Group West Road Soils Gold .....	20
Figure 7d. Princeton Group West Road Soils Copper .....	21
Figure 7e. Princeton Group East Road Soils Gold .....	22
Figure 8. Rock Sampling ppb Au .....	23
Figure 9. Outcrop Locations .....	24
Figure 10. 2011 Mineralized Areas .....	26

## LIST OF TABLES

Table 1a. List of Current Mineral Tenures .....	5
Table 1b. List of Mineral Tenures after November 30, 2014 .....	6
Table 2. 1007879 B.C. Ltd. Princeton Project Agreement Terms .....	6
Table 3. 2011 Rock Sampling Highlights .....	15
Table 4. Geochemical Statistics for Soil Sampling .....	19
Table 5. 2014 Grab Rock Samples .....	21
Table 6. CDN Blank Standard Performance .....	25
Table 7. Breakdown of Budget .....	28

## LIST OF PLATES

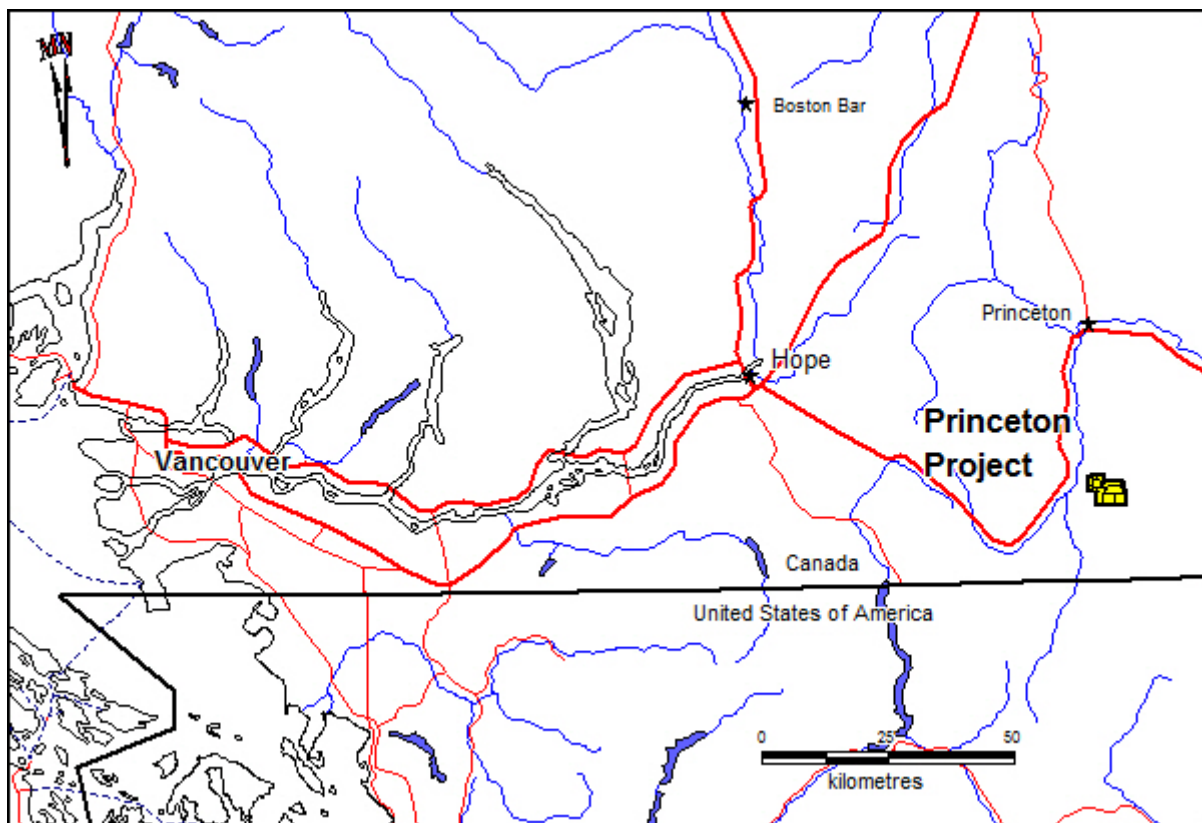
Plate 1. Nicola Volcaniclastics .....	12
Plate 2. Princeton Rock Units .....	13

## INTRODUCTION

The purpose of this Technical Report is to compile the results from the 2014 exploration program for assessment credits and make recommendations for further exploration. This report was commissioned by Mr. Sydney Wilson, the principal of 1007879 B.C. Ltd...

The author's geological consulting company completed a program of road soil sampling, rock sampling and mapping over the revised Princeton Project during late July 2014. The data presented in this report was collected during this program.

The author, R. Tim Henneberry, P.Geo., who serves as the Qualified Person for this technical report, undertook the 2014 program assisted by John Taylor between July 16 and July 24, 2014.



Projection NAD 83 Zone 10

Figure 1. Property Location

## RELIANCE ON OTHER EXPERTS

The author is not relying on a report or opinion of any experts. The ownership of the claims, comprising the property, and the ownership of surrounding claims has been taken from the Mineral Titles Online database maintained by the British Columbia Ministry of Energy and Mines. The database was examined on August 5, 2014 and data on this site is assumed to be correct.

The section concerning the History of the property area has been taken from the British Columbia Ministry of Energy and Mines Assessment Files. The geological assessment reports have been written by competent geologists and engineers in accordance with the industry standards of the day. Litho-geochemical, soil and stream silt analyses were completed by reputable Canadian assay labs, also, in accordance with industry standards of the day.

**Table 1a. Current List of Tenures**

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
571245	WILLIS 1	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.751
571246	WILLIS 2	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.543
571248	WILLIS 3	129188 (100%)	092H	2007/dec/03	2014/nov/15	379.436
571249	WILLIS 4	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.956
571250	WILLIS 5	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.747
571251	WILLIS 6	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.751
571252		129188 (100%)	092H	2007/dec/03	2014/nov/15	505.970
571253	WILLIS 7	129188 (100%)	092H	2007/dec/03	2014/nov/15	505.529
595948	WILLIS CREEK A	129188 (100%)	092H	2008/dec/12	2014/nov/15	526.455
595961	WILLIS CREEK C	129188 (100%)	092H	2008/dec/12	2014/nov/15	527.192
577664	PLACER CREEK 1	129188 (100%)	092H	2008/mar/01	2014/nov/15	527.911
577665	PLACER CREEK 2	129188 (100%)	092H	2008/mar/01	2014/nov/15	527.780
577668	PLACER CREEK 4	129188 (100%)	092H	2008/mar/01	2014/nov/15	527.795
577670	PLACER CREEK 5	129188 (100%)	092H	2008/mar/01	2014/nov/15	527.621
590051	PLACER CREEK WEST	129188 (100%)	092H	2008/aug/16	2014/nov/15	126.659
629212	PLACER CREEK EAST	129188 (100%)	092H	2009/sep/06	2014/nov/15	190.069
712302	PLACER CREEK 3	129188 (100%)	092H	2010/mar/03	2014/nov/15	422.449
577671	PLACER MOUNTAIN 1	129188 (100%)	092H	2008/mar/01	2014/nov/15	528.289
577672	PLACER MOUNTAIN 2	129188 (100%)	092H	2008/mar/01	2014/nov/15	528.289
577674	PLACER MOUNTAIN 3	129188 (100%)	092H	2008/mar/01	2014/nov/15	528.511
577679	PLACER MOUNTAIN 6	129188 (100%)	092H	2008/mar/01	2014/nov/15	528.118
600232	PLACER MOUNTAIN 4	129188 (100%)	092H	2009/mar/02	2014/nov/15	528.220
706153	PLACER MOUNTAIN A	129188 (100%)	092H	2010/feb/12	2014/nov/15	443.529
712262	PLACER LAKE	129188 (100%)	092H	2010/mar/03	2014/nov/15	507.562
712282	PLACER MOUNTAIN 5	129188 (100%)	092H	2010/mar/03	2014/nov/15	422.808
712322	PLACER MOUNTAIN 7	129188 (100%)	092H	2010/mar/03	2014/nov/15	317.044
826602	CONNECTOR	129188 (100%)	092H	2010/jul/25	2014/nov/15	464.402
	<b>27 claims</b>					<b>12620.384</b>

### PROPERTY DESCRIPTION AND LOCATION

The Princeton Project is located south of Princeton, British Columbia (Figure 1) on TRIM claim sheets 092H008, 092H018, 092H028, 092H029, 092H038 and 092H039 in the Similkameen Mining Division. The property currently consists of 27 claims totaling 12,620 hectares as shown in Table 1a and in pink on Figure 2.

After November 30, 2014 the property will consist of 10 claims totaling 3,443 hectares as shown in Table 1b and in yellow on Figure 2. The geographic center of the property after November 30, 2014 is approximately 684500E 5448000N (NAD 83) in UTM ZONE 10, with all the claims lying on TRIM Sheet 092H018.

**Table 1a. List of Tenures after November 15, 2014**

Tenure Number	Claim Name	Owner	Issue Date	Good To Date	Area (ha)
577664	PLACER CREEK 1	129188 (100%)	2008/mar/01	2016/nov/15*	126.7021
577665	PLACER CREEK 2	129188 (100%)	2008/mar/01	2016/nov/15*	126.6841
577668	PLACER CREEK 4	129188 (100%)	2008/mar/01	2016/nov/15*	232.2769
577671	PLACER MOUNTAIN 1	129188 (100%)	2008/mar/01	2016/nov/15*	528.289
577672	PLACER MOUNTAIN 2	129188 (100%)	2008/mar/01	2016/nov/15*	528.289
577679	PLACER MOUNTAIN 6	129188 (100%)	2008/mar/01	2016/nov/15*	528.118
600232	PLACER MOUNTAIN 4	129188 (100%)	2009/mar/02	2016/nov/15*	528.220
629212	PLACER CREEK EAST	129188 (100%)	2009/sep/06	2016/nov/15*	190.069
706153	PLACER MOUNTAIN A	129188 (100%)	2010/feb/12	2016/nov/15*	443.529
712302	PLACER CREEK 3	129188 (100%)	2010/mar/03	2016/nov/15*	211.2303
					<b>3443.408</b>

\* pending approval of 2014 assessment credits

All claims are held 100% by Mr. Sydney Wilson of Vancouver, B.C. Details pertaining to the claims are summarized in Tables 1a and 1b and shown in Figure 2. Mr. Sydney Wilson is not arm's length to 1007879 B.C. Ltd.

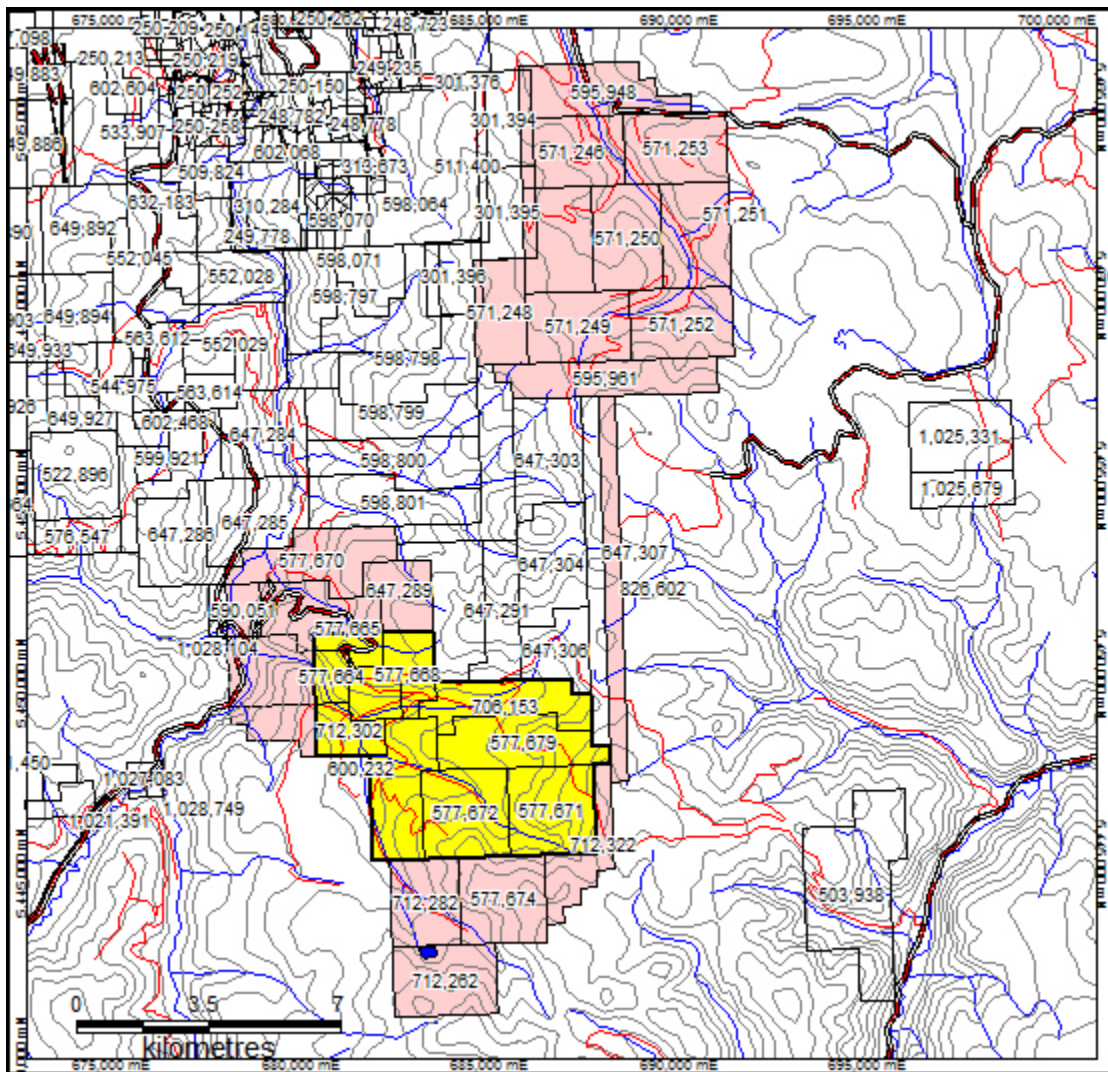
1007879 B.C. Ltd. is earning a 100% interest, subject to a 2% Net Smelter Return (NSR) royalty, in the Princeton Project by making cash payments and share issuances and completing exploration expenditures under the terms outlined in Table 2:

**Table 2. 1007879 B.C. Ltd. Princeton Project Agreement Terms**

Payments			Work Commitments	
Date	Cash	Shares	Expenditures of	Completed by
14-Jul-2014			\$25,000	14-Oct-2014
14-Jul-2015		250,000	\$50,000	14-Jul-2015
14-Jul-2016		500,000	\$250,000	14-Jul-2016
14-Jul-2017		750,000	\$500,000	14-Jul-2017
14-Jul-2018		1,000,000	\$1,175,000	14-Jul-2018
<b>Totals</b>		<b>2,500,000</b>	<b>\$2,000,000</b>	

1007879 B.C. Ltd. has the option to purchase up to 1/2 of the NSR in two increments (each 0.5%) for \$500,000 each, leaving Mr. Wilson with a 1% NSR.

The author is not aware of any environmental liabilities associated with the Princeton property. The next phase of exploration for the Princeton property will involve mechanical trenching followed by diamond drilling. These exploration activities require a permit obtained through the British Columbia Ministry of Energy and Mines Notice of Work process. A Mines Permit (MX-4-619) for the trenching and drilling was approved 27-February-2012 but has subsequently lapsed. The Company anticipates no difficulties in getting the permit reinstated.



Projection NAD 83 Zone 10

Figure 2: Claim Location (092H018)

The author is not aware of any other significant factors or risks that may affect access, title, or the right or ability to perform work on the Princeton property.

## **ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY**

The Princeton Project is located approximately 35 kilometres south of Princeton, British Columbia. Road access is via Highway 3 south from Princeton to the Placer Mountain Forest Service Road a distance of approximately 37 kilometres, thence approximately 13 kilometres along the Placer Mountain Forest Service Road in a generally easterly direction to the 2014 work sites.

Topographic relief on the Princeton Project is moderate to steep with elevations ranging from 1220 metres above sea level (ASL) on Placer Creek at the western claim boundary to 2105 metres ASL on Placer Mountain on the eastern claim boundary. Vegetation consists of thick stands of jack pine and spruce on north facing slopes and significantly sparser vegetation on remaining slopes. Jack pine stands are locally falling victim to the Mountain Pine Beetle infestation. Underbrush is limited but heavy deadfall is prevalent in many areas. Rock outcrops are rare except on ridges, in deep cut valleys and where recent clear cut logging and road building has exposed previously covered bedrock. Much of the property and surrounding region has been clear cut logged.

Climate conditions typify continental type characterized by generally warm, dry summers with field seasons extending from mid-May through to mid-October. Winters are cold with significant snow accumulations and temperatures dipping to minus 20° Celsius for extended periods.

As this is a greenfields exploration project, detailed surveys with respect to potential tailings storage areas, waste disposal areas, heap leach pad areas or potential processing plant areas have not been undertaken. The property is relatively close to the producing Copper Mountain Mine, lying 18 kilometres to the north. The claims are on crown land, so the surface rights are held by the crown. Power lines run down Highway 3 so power is within 13 kilometre of the property. Water is available from the numerous creeks throughout the claim block. Mining personnel, accommodation, heavy equipment, supplies and fuel are readily available locally in Princeton.

## **HISTORY**

According to the British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report Database, the ground presently comprising the Princeton Project has no exploration history prior to the work programs completed since 2008 by Mr. Sydney Wilson, the property vendor.

Since the Princeton Project is going to undergo a major downsizing in mid-November 2014, this history section will focus largely with the ground that will remain in good standing after a significant block of claims expire.

In the northern part of the Princeton property, known as the Willis Creek Block, a three year program of Mobile Metal Ion (MMI) soil geochemistry was completed. A total of 364 samples were collected over a grid measuring 4000 metres long by 2200 metres wide. The MMI soil sampling program successfully outlined an area 1800 metres long by 2200 metres wide that appears to be anomalous in copper, molybdenum, silver and gold. This area has been sampled at 100 to 150 metre sample spacings along 225 and 450 metre spaced lines (Henneberry and Wesa, 2010a). A detailed silt sampling and mapping program completed by the author in the fall of 2013 failed to locate any significant stream sediment anomalies. (Henneberry, 2013).

In the western part of the Princeton property, known as the Placer Creek Block, a three year program of Mobile Metal Ion (MMI) soil sampling was completed. A total of 296 samples were obtained over a 1000 metre long by 1500 metre grid. This program was successful in locating an open 1300 metre long by 50 to 500 metre wide silver anomaly and a two line Au cluster anomaly 250 metres wide by 300 metres long (Henneberry and Wesa, 2010b).

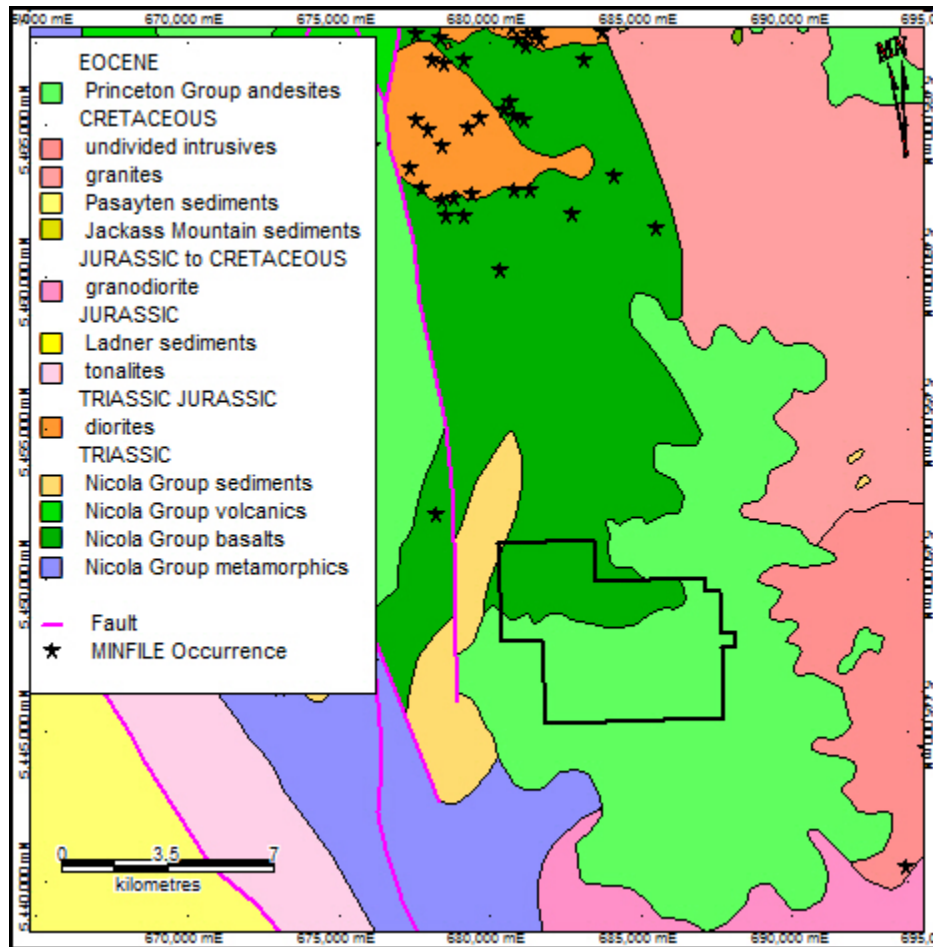
In the southern part of the Princeton property, known as the Placer Mountain Block, a north-south and an east-west reconnaissance MMI soil line was completed resulting in the collection of 59 Mobile Metal Ion (MMI) soil samples. Several multi-element spot anomalies and small cluster anomalies were located (Henneberry, 2008). A second phase of MMI soil sampling, consisting of four lines totaling 50 samples, was completed in the summer of 2010. This survey was followed by prospecting later in the fall resulting in discovery of quartz vein float that returned analytical values ranging from 10.3 ppb Au to 21 grams per tonne Au (Henneberry and Wesa, 2010c).

Wilson subsequently optioned the Willis Creek, Placer Creek and Placer Mountain blocks, collectively as the Princeton Project, to Windfire Capital Corp. in 2011 as Windfire's Qualifying Transaction for the TSX Venture Exchange. Windfire completed a two stage exploration program of grid soil sampling and rock sampling concentrating on the quartz vein float area on the Placer Mountain Block in 2011. The rock sampling included Area 2, where 13 of 36 samples of sub rounded to angular quartz float and outcrop comprising rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite returned gold values in excess of 10,000 ppb gold, or 10 grams per tonne, to a maximum of 66,237 ppb or 66.2 grams per tonne gold from three separate locations. Two phases of initial broad then follow up tighter grid soil sampling suggest that Area 2 hosts multiple, linear, parallel gold-in-soil anomalies with the strongest anomaly striking a minimum of 500 metres to a maximum of 650 metres in a northwestern direction. Road soil and rock geochemistry surveys and prospecting identified several other areas that also require follow up. (Henneberry and Wesa, 2012).



GEOLOGICAL SETTING  
(Summarized from MINFILE 092HSE)

The Princeton Project is located at the southern end of the Intermontane Belt and the adjoining eastern margin of the Coast Belt. The southern Intermontane Belt is dominated by volcanic rocks and sediments of the Upper Triassic Nicola Group, comprising the Quesnel Terrane. These rocks are intruded by co-magmatic plutons of the Late Triassic and Early Jurassic Copper Mountain and Hedley intrusions, and comprise a west-facing magmatic arc. The island arc assemblage is cut by post-accretionary intrusions of the Late Jurassic and Cretaceous Eagle Plutonic Complex and Osprey Lake Batholith, and is unconformably overlain by volcanic rocks and clastic sediments of the Cretaceous and Tertiary Spences Bridge and Princeton groups. This post-accretionary volcanism and sedimentation is, in part, controlled by a system of northerly striking strike-slip faults.



UTM NAD 83 Zone 10  
Geology from MapPlace, August 2014

Regional Geology  
Figure 3



The Methow Terrane lies across the Pasayten fault to the west and occupies the eastern margin of the Coast Belt in the Princeton map area. This terrane comprises a wedge of clastic sediments derived in part from Quesnellia rocks to the east. The sequence consists of fine grain sediments and mafic volcanics of the Lower to Middle Jurassic Ladner Group, overlain by a thin section of sandstone and conglomerate of the Upper Jurassic "Thunder Lake Sequence", which is, in turn, followed by a thick section of coarse clastics of the partly coeval Cretaceous Jackass Mountain and Pasayten Groups.

The oldest rocks in the Placer Mountain area belong to the Triassic Nicola Group. They consist of basaltic and undivided volcanics and overlying clastic sediments which are metamorphosed to amphibolite grade in the central portion of the map area.

The Nicola Group rocks have been intruded by early Jurassic granites and undivided intrusives, Jurassic tonalites and Jurassic to Cretaceous granodiorites. The youngest units are Eocene andesites of the Princeton Group.

The southwestern corner of the map area is transected by the Pasayten Fault and is underlain by clastic sediments of the Jurassic Ladner and Jackass Mountain Groups and the Cretaceous Pasayten Group.

### **Princeton Property Area Geology**

With the exception of government geological surveys there has been no mapping on the Princeton property, prior to the mapping completed by the author as part of the 2014 exploration program. The following unit descriptions are taken from the British Columbia Ministry of Energy, Mines and Petroleum Resources MapPlace website.

The oldest rocks are the Triassic Nicola Group which consists of three main units: a sedimentary unit comprised of shale, argillite, siltstone, sandstone, phyllite, tuff, local polymict conglomerate, limestone, greenstone and chloritic phyllite; the Eastern Volcanic Facies comprised of basaltic mafic breccia and tuff with augite and hornblende-phyric clasts; and local intercalated argillite and amphibolite, foliated diorite, mylonite and chlorite schist derived from Nicola Group.

The Nicola Group rocks have been intruded by Jurassic to Cretaceous and Cretaceous intrusives. The Jurassic to Cretaceous intrusions consist of granodioritic rocks, and the Cretaceous intrusions comprise granite and alkali feldspar granite rocks.

The youngest rocks on the property are the Eocene Princeton Group, consisting of intermediate, locally mafic and felsic, flows and volcanoclastic rocks.

The geological map of the area from the British Columbia Ministry of Energy and Mines MapPlace website (Figure 4) shows the Princeton Property is underlain largely by Eocene Princeton Group andesites and Triassic Nicola Group Eastern Facies basaltic rocks.

### Princeton Property Geology

One of the objectives of the 2104 exploration program was to initially map the Placer Mountain block. Mapping concentrated on the numerous logging roads cutting through the claims. The map is shown as Figure 4 and is based on 112 outcrop locations. The mapping showed the dominant unit to be the Eocene Princeton Group volcanics, with Nicola volcanics mapped on the northern section of the property. The actual contact of the Nicola volcanics appears to be further to the north than shown on the British Columbia Ministry of Energy, Mines and Petroleum Resources MapPlace website.

Plate 1. Nicola Volcaniclastics



Blocky exposure in rock quarry



Gossan in old trench

The Nicola Group rocks were mapped through the northern section of the claim group. The rock is grey weathering, dark grey green fine grained andesitic volcanics. Outcrop exposures varied from blocky to platy and fissile. Limonite and iron oxides were commonly noted especially along the northernmost exposures. In some instances the rock almost appeared gossanous and a couple of these locations were sampled. A few instances of bull quartz blow outs were noted with quartz approximately 1 to 4 metres long by 20 to 50 centimetres wide. One area of suspected previous trenching was noted in the more gossanous material. Mineralization ranged from nothing to disseminated pyrite in concentrations ranging from trace to 2% to 3%.

The Princeton Group rocks outcrop through the southern two-thirds of the claim block and consist of three main units: basalts, volcanics and dacitic intrusive. The basalt is a grey brown weathering, fine grained black rock that is blocky to semi-massive in outcrop. It lies in the northeast corner of the claim block.



The volcanoclastics is the most widespread of the Princeton units, covering the much of the southern claim block. It varies in composition from agglomerate to fragmental to fine grained and varies in form from blocky to platy to locally fissile. The agglomerate varies in color from black to hematitic red and contains rounded bombs from 10 to 20 centimetres in size.

**Plate 2. Princeton Rock Units**



basalt



Volcanoclastics agglomerate

The fragmental unit is a fine grained ground mass with 2 to 10 millimetre lath shards of grey white plagioclase forming <1% to 10% of the rock. Local horizons of 2 to 5 mm black hornblende lath shards up to 1% of the rock were noted as well. The rock is a dull grey color in outcrop and grey brown on fresh surfaces, though local hematitic red horizons were noted.

The platy to fissile unit is finer grained, light grey on weathered surface and light to medium brown on fresh surface. Local hematite red horizons were noted. Fracture epidote was also noted locally, as was fracture limonite.



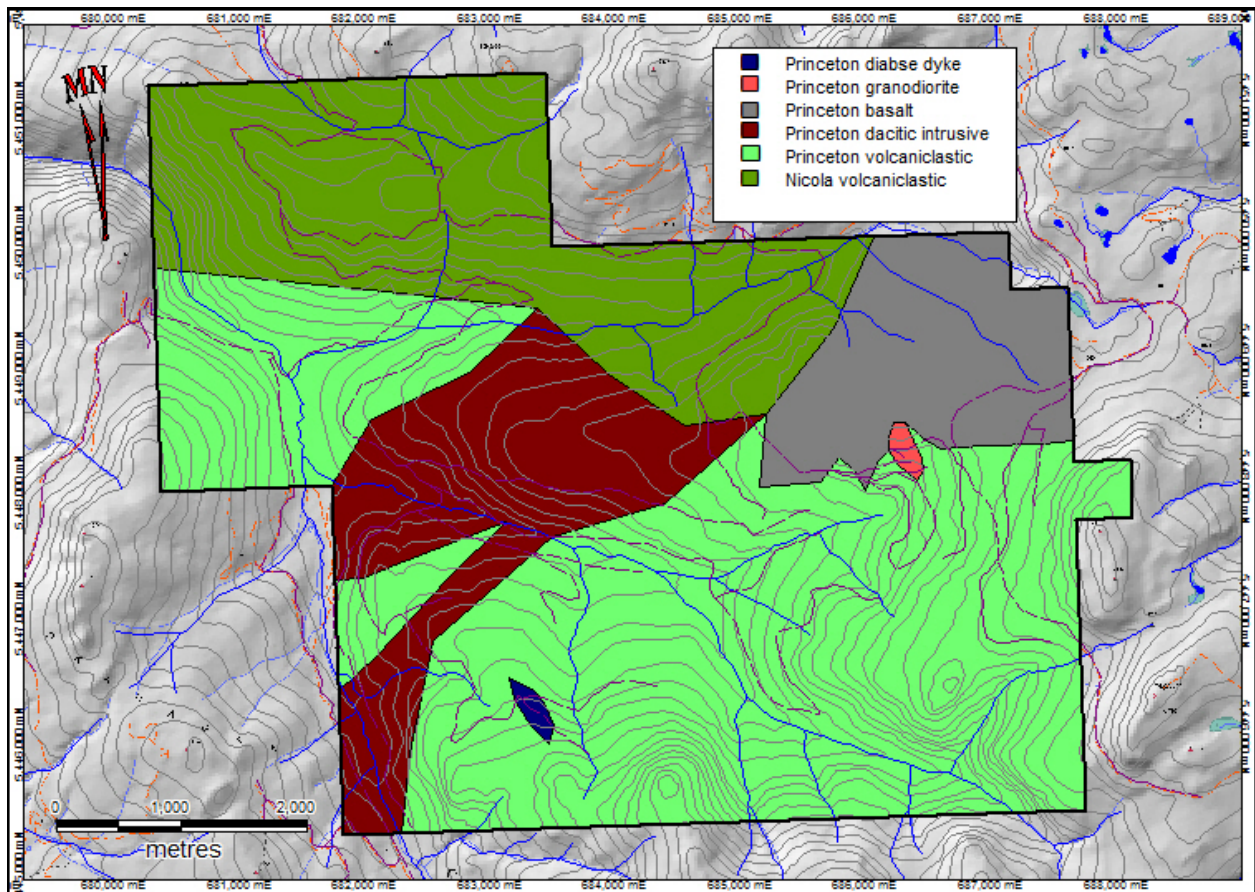
dacitic intrusive

Local zones of bleaching were noted in the fragmental and finer grained units, but over short (metres) intervals.

The dacitic intrusive is a dull grey brown color on weathered surface and cleaner grey brown on fresh surface. The rock displays plagioclase laths to 5 millimetres and hornblende laths to 5 millimetres. Biotite is also observed, though it has been weathered to limonite in some instances. Quartz eyes to 7 millimetres were also observed. Outcrop is typically blocky.

Two exposures of a grey black, fine to medium grained intrusive dyke were noted in the southwest section of the claim block. No contacts were noted.

A small granodiorite plug, which may be a more granodioritic phase of the Princeton Group dacitic intrusive, was noted in the eastern section of the claim block. The rock is grey white on both the weathered and fresh surface. It is coarse grained and carries quartz and feldspar. Hornblende laths to 1 centimetre were observed. The one exposed contact has considerable associated limonite and iron oxides.



UTM NAD 83 Zone 10

Princeton Project Geology Figure 4

### Mineralization

The Princeton Project is currently being explored for auriferous quartz vein mineralization. Grid soil sampling, road soil sampling and lithogeochemical sampling in 2011 was successful in locating three areas of anomalous gold-sulphide mineralization.



**Table 3. 2011 Rock Sampling Highlights**

Sample	Area	Description	ppb Au	Sample	Area	Description	ppb Au
PM11-EBR02	1	angular quartz boulder float	396.6	14806	2	0.5 m wide quartz vein	476.4
PM11-EBR03	1	angular quartz boulder float	272.2	PM11-EBR14	2	see Ed's notes	1644.8
PM11-EBR04	1	quartz vein in outcrop	102.3	PM11-EBR15	2	angular quartz vein float	115.2
PM11-EBR07	1	sub-angular quartz boulder float	332.5	PM11-EBR16	2	sub angular quartz vein float	12545.7
PM11-EBR09	1	quartz vein in altered granodiorite	163.4	PM11-EBR17	2	sub angular quartz vein float	3500.4
PM11-GWR01	2	0.65 m wide quartz vein	14937.1	PM11-EBR18	2	sub angular quartz vein float	1549.7
PM11-GWR02	2	0.5 m wide quartz vein	23149.2	PM11-EBR19	2	angular quartz vein float	1971.4
PM11-GWR03	2	0.55 m wide quartz vein	315.4	PM11-EBR20	2	angular quartz vein float	3395.1
PM11-GWR04	2	0.55 m wide quartz vein	4477.5	PM11-EBR22	2	angular quartz vein float	5028.4
PM11-GWR05	2	quartz vein grab	10074.9	PM11-EBR25	2	angular quartz vein float	30547.4
PM11-GWR06	2	1.0 m wide quartz vein	2606.7	PM11-EBR26	2	angular quartz vein float	19002.1
PM11-GWR07	2	quartz vein grab	9769.4	PM11-GWR01A	2	angular quartz vein float	5128.5
PM11-GWR08	2	2.5 m wide quartz vein	13831	PM11-GWR02A	2	quartz vein grab	8569
PM11-GWR09	2	0.5 m wide quartz vein	782	PM11-GWR02B	2	0.19 m brecciated andesite	600.5
PM11-GWR24	2	sub angular quartz vein float	1123.1	PM11-GWR02C	2	0.31 wide quartz vein	43799.2
PM11GWR65	2	angular quartz vein float	5535.7	PM11-GWR02D	2	0.18 m altered andesite	322.8
PM11GWR66	2	angular quartz vein float	25653.3	PM11-GWR02E	2	0.20 m altered argillite	166.5
PM11GWR67	2	angular quartz vein float	60707.5	PM11-GWR02F	2	0.48 m wide quartz vein	66236.9
PM11GWR68	2	angular quartz vein float	65938.5	PM11-EBR28	3	angular argillite float with quartz	934.5
PM11GWR69	2	angular quartz vein float	47900.1	PM11GWR70	4	sub angular quartz vein float	176.2
				PM11GWR71	4	sub angular quartz vein float	106

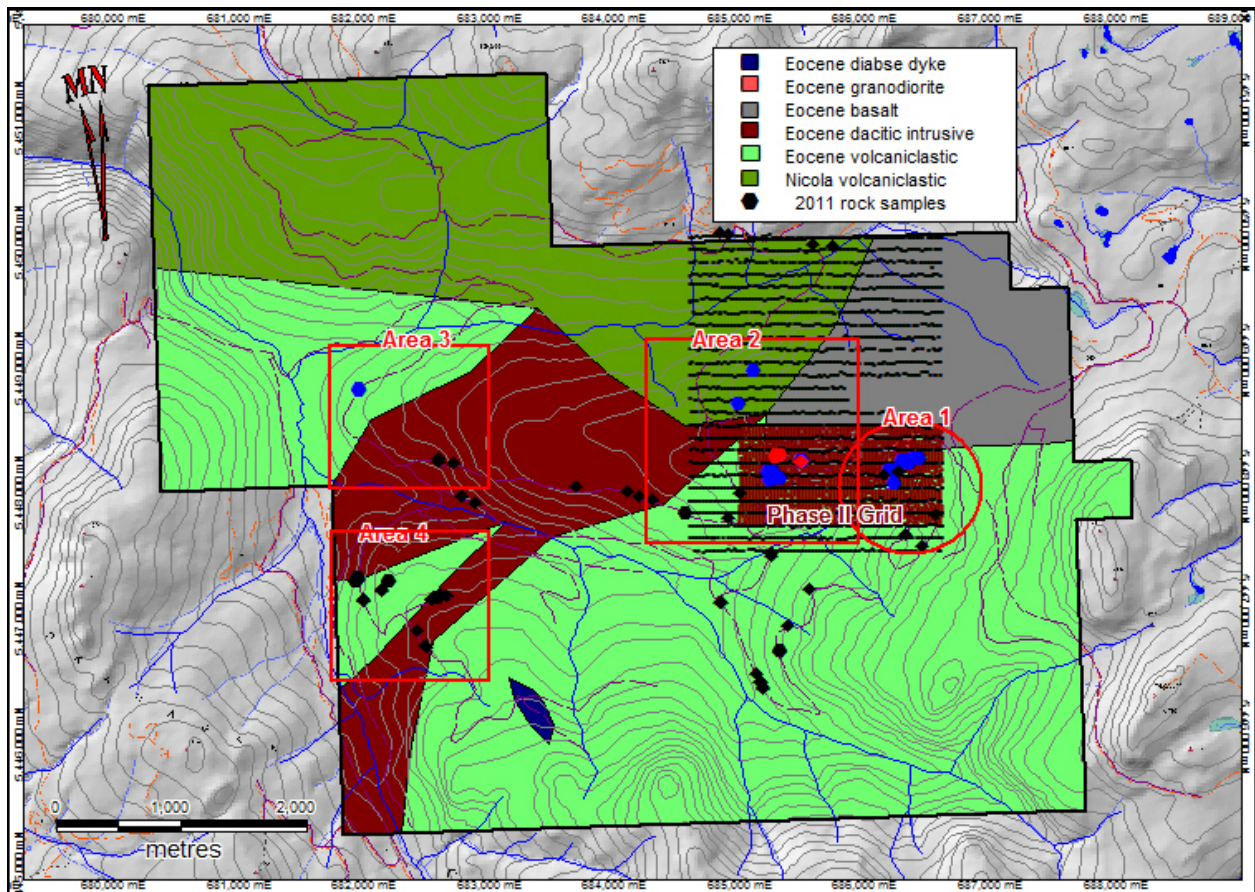
Table 3 presents highlights of the lithochemical analytical results within the claim block. Figure 5 shows the location of the mineralized areas relative to the property boundaries. Area 2 represents the dominant area on the property where 13 samples, collected from outcrop and sub angular to angular quartz float boulders, returned gold values in excess of 10 grams per tonne. Prospecting outlined three distinct areas of quartz float and outcrop composed of rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite. Quartz vein material locally exhibits remnant vugs and cellular box work texture.

Soil geochemistry conducted over Area 2 was successful in highlighting multiple, linear, parallel gold-in-soil anomalies with the largest being 500 to 650 metres in length.

### DEPOSIT TYPES

The Princeton Project is being explored for polymetallic quartz veins and porphyry Cu – Mo deposits. The following description of polymetallic quartz veins is condensed from British Columbia Ore Deposit Models (Lefebvre and Church, 1996).

Polymetallic veins occur in virtually all tectonic settings except oceanic, including continental margins, island arcs, continental volcanics and cratonic sequences. They are usually divided into metasediment hosted veins and igneous hosted veins. The polymetallic veins at Princeton would be classified as igneous. Veins typically occur in country rock marginal to an intrusive stock. Typically veins crosscut volcanic sequences and follow volcano- tectonic structures, such as caldera ring-faults or radial faults. In some cases the veins cut older intrusions. The age of these vein is Proterozoic or younger, though mainly Cretaceous to Tertiary in British Columbia.



UTM NAD 83 Zone 10

Figure 5. Mineralized Areas

Polymetallic veins are typically steeply dipping, narrow, tabular or splayed. They commonly occur as sets of parallel and offset veins. Individual veins vary from centimetres up to more than 3 metres wide and can be followed from a few hundred to more than 1000 metres in length and depth. Veins may widen to tens of metres in stockwork zones. Compound veins with a complex paragenetic sequence are common. The veins display a wide variety of textures, including cockade texture, colloform banding and crustifications and locally drusy. Veins may grade into broad zones of stockwork or breccia. Coarse grain sulphides occur as patches and pods, and fine grain disseminations are confined to veins.

Regional faults, fault sets and fractures are an important ore control; however, veins are typically associated with second order structures. Significant polymetallic veins are often restricted to competent lithologies. Dikes are often emplaced along the same faults and in some camps are believed to be roughly contemporaneous with mineralization. Some polymetallic veins are found surrounding intrusions with porphyry deposits or prospects.

Igneous hosted polymetallic veins are generally comprised of quartz, carbonate (rhodochrosite, siderite, calcite, dolomite), sometimes specular hematite, hematite, barite, fluorite. Carbonate species may correlate with distance from source of hydrothermal fluids with proximal calcium and magnesium-rich carbonates and distal iron and manganese-rich species.

Mineralization within the veins consists of: galena, sphalerite, tetrahedrite-tennantite, with lesser sulphosalts including pyrargyrite, stephanite, bournonite and acanthite, native silver, chalcopyrite, pyrite, arsenopyrite and stibnite. Silver minerals often occur as inclusions in galena. Some deposits include native gold and electrum. Rhythmic compositional banding is sometimes present in sphalerite. Some veins contain more chalcopyrite and gold at depth and Au grades are normally low for the amount of sulphides present.

Wall rock alteration is typically limited in extent (measured in metres or less). Metasediments typically display sericitization, silicification and pyritization. Thin veining of siderite or ankerite may be locally developed adjacent to veins.

Black manganese oxide stains are common weathering products and can be used as guide for prospecting. Polymetallic veins are generally strongly structurally controlled and commonly occur in clusters; therefore, the best place to explore for new veins is in the area of known veins. Geochemically, there are generally elevated levels of Zn, Pb, Ag, Mn, Cu, Ba and As associated with the veins. Geophysically, polymetallic veins may have elongate zones of low magnetic response and/or electromagnetic, self-potential or induced polarization anomalies related to ore zones.

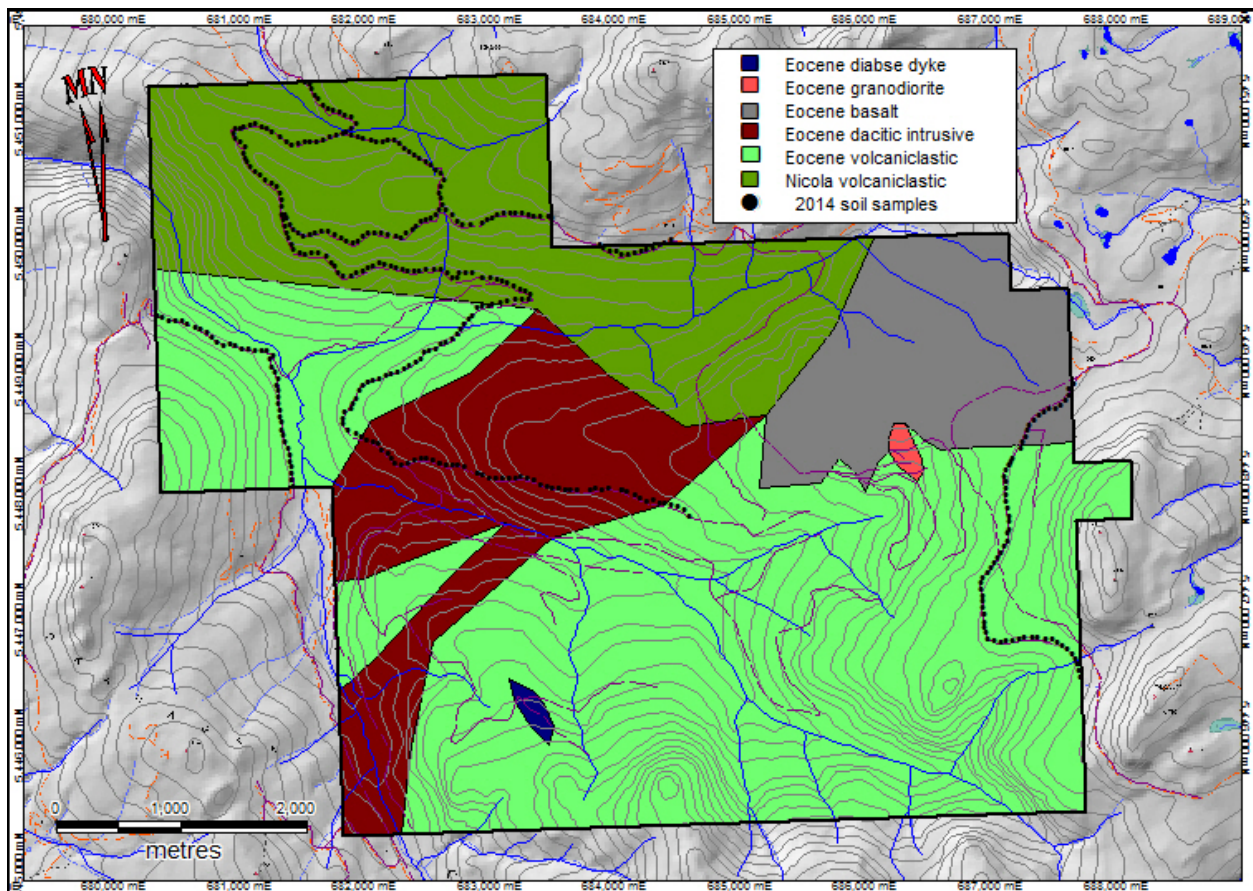
Individual vein systems range from several hundred to several million tonnes grading from 5 to 1500 g/t Ag, 0.5 to 20% Pb and 0.5 to 8% Zn. Average grades are strongly influenced by the minimum size of deposit included in the population. For B.C. deposits larger than 20,000 t the average size is 161,000 t with grades of 304 g/t Ag, 3.47 % Pb and 2.66 % Zn. Copper and gold are reported in less than half the occurrences, with average grades of 0.09 % Cu and 4.0 g/t Au.

Polymetallic veins usually support small to medium-size underground mines. The mineralization may contain arsenic which typically reduces smelting credits.

British Columbia examples of metasediment hosted polymetallic vein deposits include: the Slocan-New Denver-Ainsworth district, the Trout Lake Camp and St. Eugene Mine. Other examples are the Mayo District in the Yukon and the Couer d'Alene District in Idaho.

The 2014 exploration program on the Princeton Project consisted of roadside soil sampling, rock sampling and mapping. A total of 383 road samples and 7 rock samples were collected.

The road soil sampling concentrated in areas that were not sampled during the 2011 grid soil sampling and road soil sampling programs. Road soil samples were obtained from cut banks above the road at 50 metre intervals measured with a hip chain. A 500 to 1000 gram sample was collected from the "B" horizon and placed in pre-numbered soil bags. Each sample location was recorded as a waypoint in a GPS unit in the map datum NAD 83. Sample sites were then flagged with fluorescent ribbon and marked with the sample number.



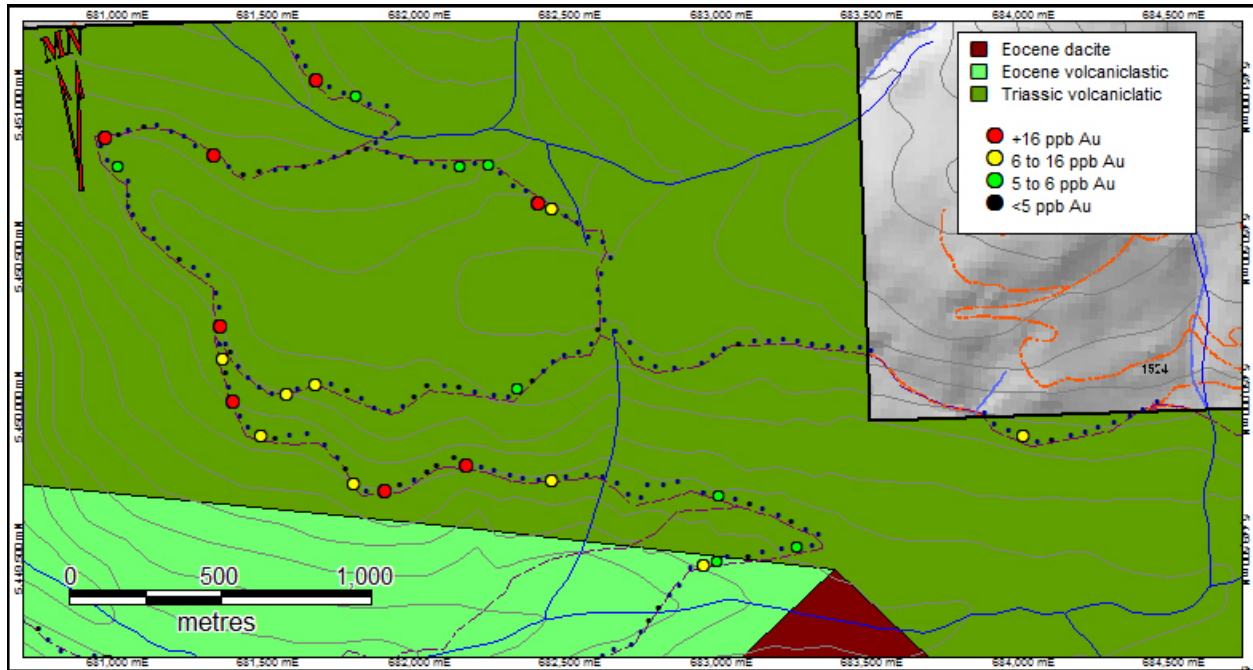
UTM NAD 83 Zone 10

Figure 6. Road Soil Sample Locations

Rock samples, ranging in weight from 1-3 kilograms, were collected from outcrop. Each sample was placed in a 6 mil poly sample bag along with a pre-numbered assay ticket. The sample site was marked with the assay ticket number on blue and orange flagging. The sample particulars along with the sample number were entered into a Trimble Juno GPS unit running Discover Mobile 3.6. The stream sediment, soil and rock sampling data were downloaded nightly into a computer. All samples were delivered to ACME Analytical Laboratories in Vancouver for analysis.



The author is not aware of any sampling or recovery factors that could materially impact the accuracy and reliability of the assay results. The author believes the samples taken to be representative and does not feel there are any factors that would cause sample bias.



UTM NAD 83 Zone 10

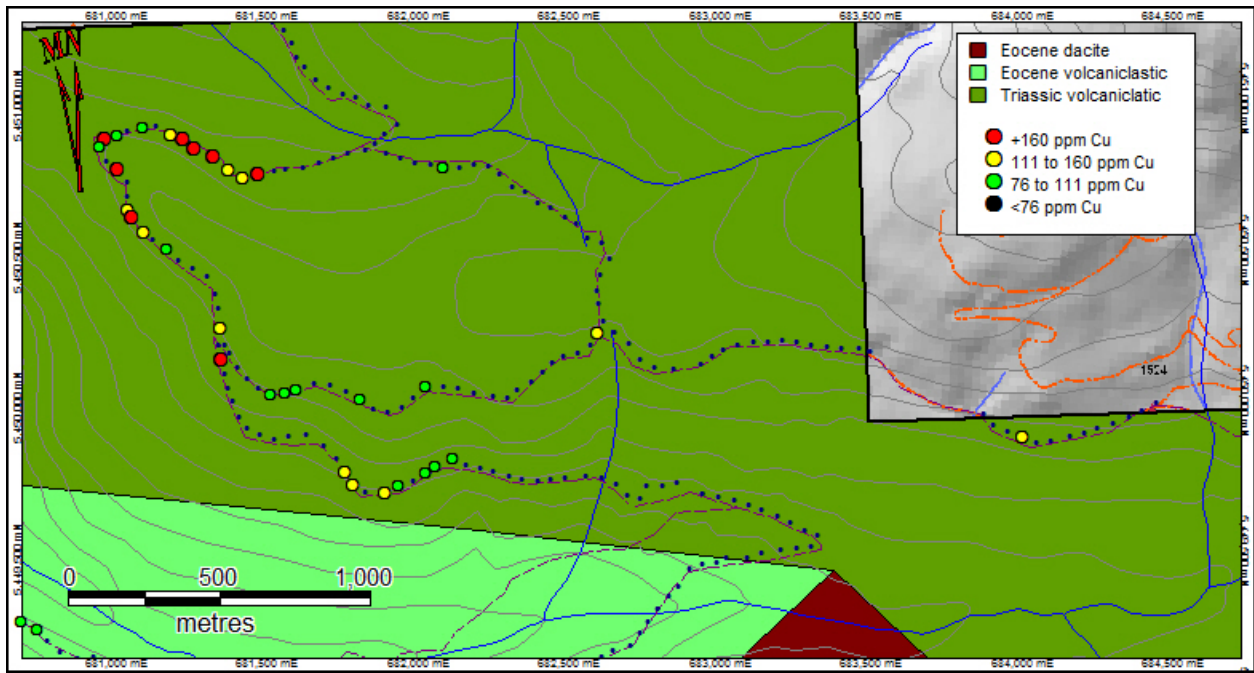
Figure 7a. Nicola Group Road Soils Gold

The gold road soil results for the Nicola Group are displayed in Figure 7a and the copper road soil results are displayed in Figure 7b. The gold soil results for the Princeton Group are displayed in Figure 7c and Figure 7e and the copper road soil results are displayed in Figure 7d. The soil statistics for gold and silver are found in Table 4.

Table 4: Geochemical Statistics for Soil Sampling

Percentile	75th	90th	95th	98th	Maximum	Count
Au ppb	3	5	6	16	43.5	383
Cu ppm	49	76	111	160	397	383

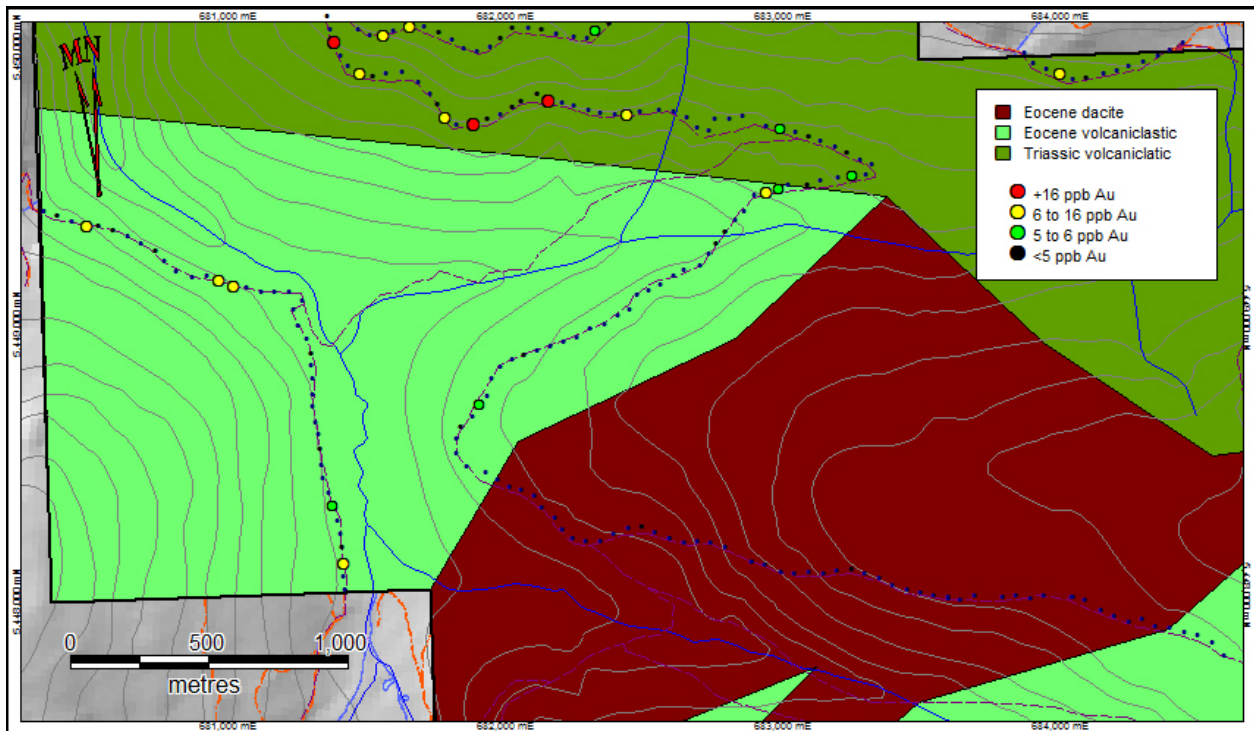
The Nicola Group gold plot (Figure 7a) has identified several spot anomalies and one two station cluster. It is difficult to ascertain any linear anomalies at this stage and each spot or cluster anomaly needs to be field checked. The Nicola Group copper plot (Figure 7b) shows a large cluster of anomalous values in the northwest corner of the property over an area approximately 300 metres by 300 metres. Mapping in this area located moderately to strongly siliceous volcaniclastics displaying limonite staining and strong to pervasive iron oxide staining and with local zones of weakly disseminated pyrite. An old trench from an earlier exploration program was also located through this area, suggesting follow up exploration is required.



UTM NAD 83 Zone 10

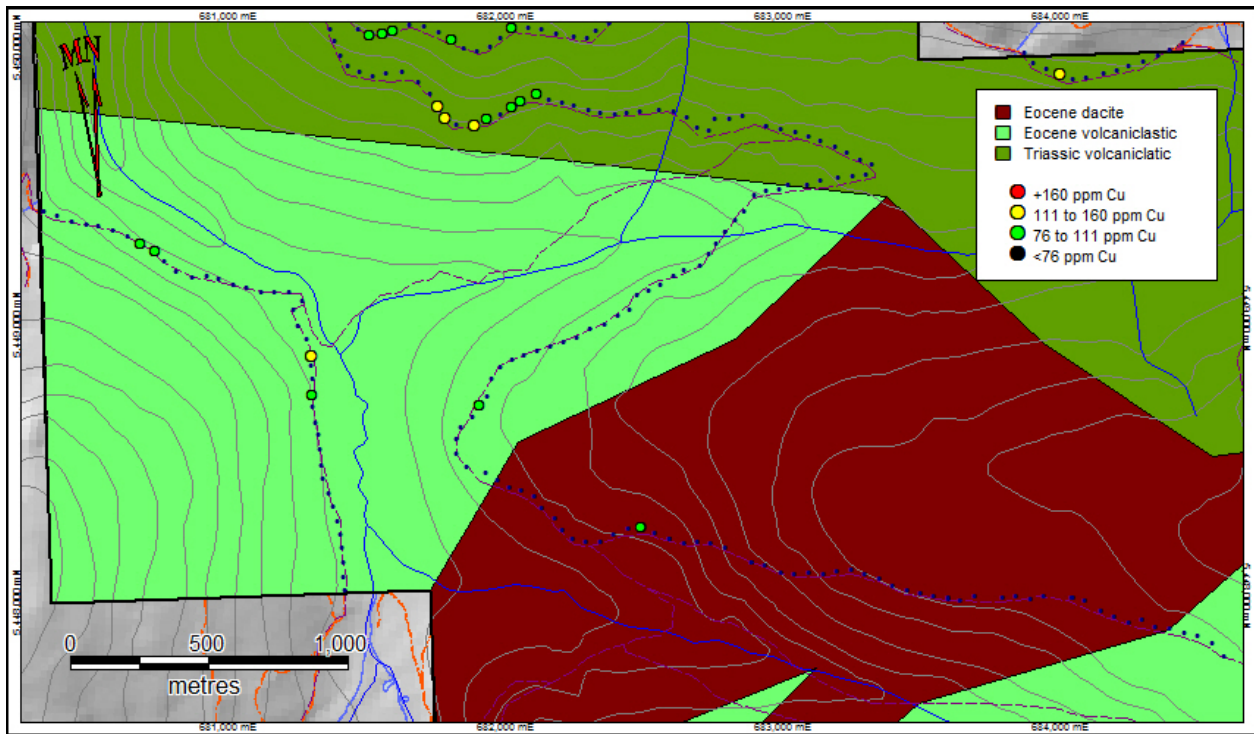
Figure 7b. Nicola Group Road Soils Copper

The western section of the Princeton Group showed only a few spot anomalies, both in gold (Figure 7c) and copper (Figure 7d).



UTM NAD 83 Zone 10

Figure 7c. Princeton Group West Road Soils Gold



UTM NAD 83 Zone 10

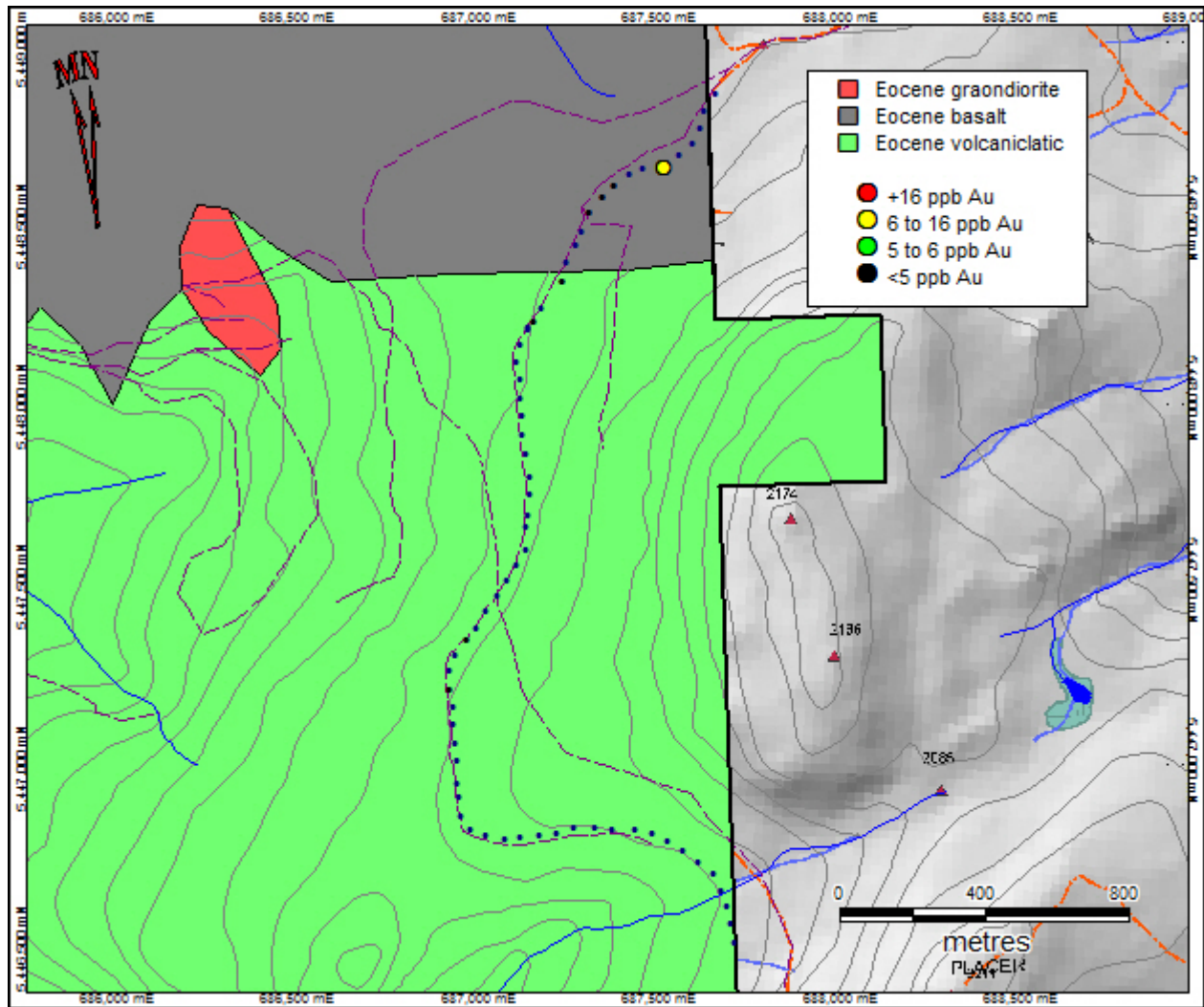
Figure 7d. Princeton Group West Road Copper

The eastern section of the Princeton Group showed one spot anomaly in gold (Figure 7e). There were no anomalous copper values so a plot for copper is not included.

A total of 7 rock samples were taken during the mapping and sampling program. The results are shown in Figure 8 and Table 5. Quartz, interesting alteration and/or visible mineralization were the catalysts for taking the samples.

Table 5. 2014 Grab Rock Samples

Sample No	Easting	Northing	Type	Alteration	Mineralization	ppm Cu	ppb Au
838451	680948	5450820	bull quartz	Feox	NVM	2.6	<0.5
838452	680989	5450889	alteration zone	silicic bleached Feox	traces pyrite	23.8	1.4
838453	681058	5450921	vuggy quartz	silicic Feox	weathered sulfide vugs	23.2	<0.5
838354	681316	5450826	silicified zone	silicic Feox	weak disseminated pyrite	70.4	1.5
838455	681333	5450173	alteration zone	silicic bleached Feox	weathered sulfide vugs	104.7	<0.5
838456	685392	5446904	alteration zone	silicic bleached Feox	traces pyrite	40.1	1.7
838457	681408	5448118	alteration zone	limonite bleached	weathered sulfide vugs	19.5	22.4



UTM NAD 83 Zone 10

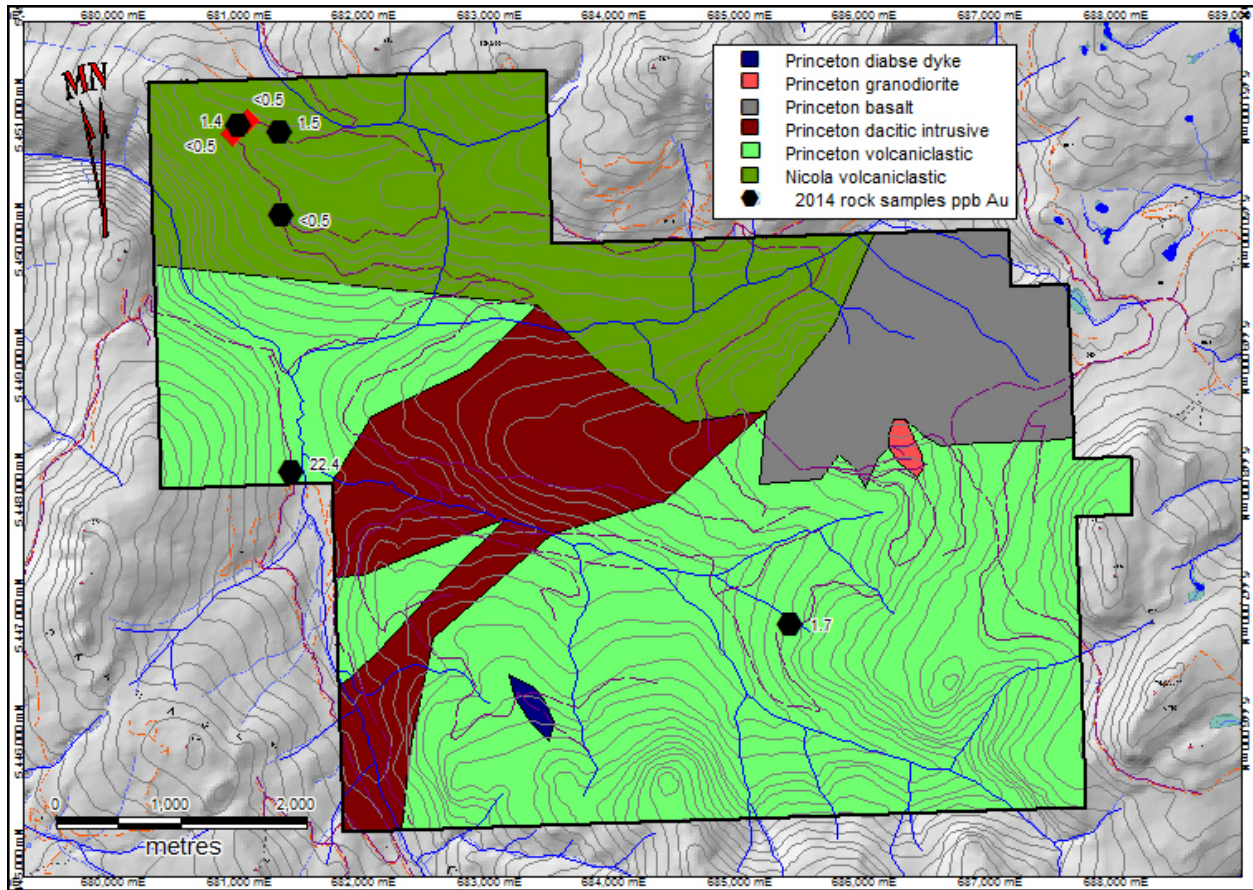
**Figure 7e. Princeton Group East Road Soils Gold**

Two samples of quartz subcrop, four samples of alteration zones with the Nicola volcanoclastics and one sample of an alteration zone within the Princeton volcanoclastics were taken. Only one of the samples, 8838457, exceeded background returning a value of 22.4 ppb Au. The sample was from a bleached fault zone showing limonite fractures and weathered sulfide vugs.

The mapping resulted in the logging of 112 separate outcrop locations as shown on Figure 9. The mapping was discussed under the property geology section.



There is no record of diamond drilling on the Princeton Project.



UTM NAD 83 Zone 10

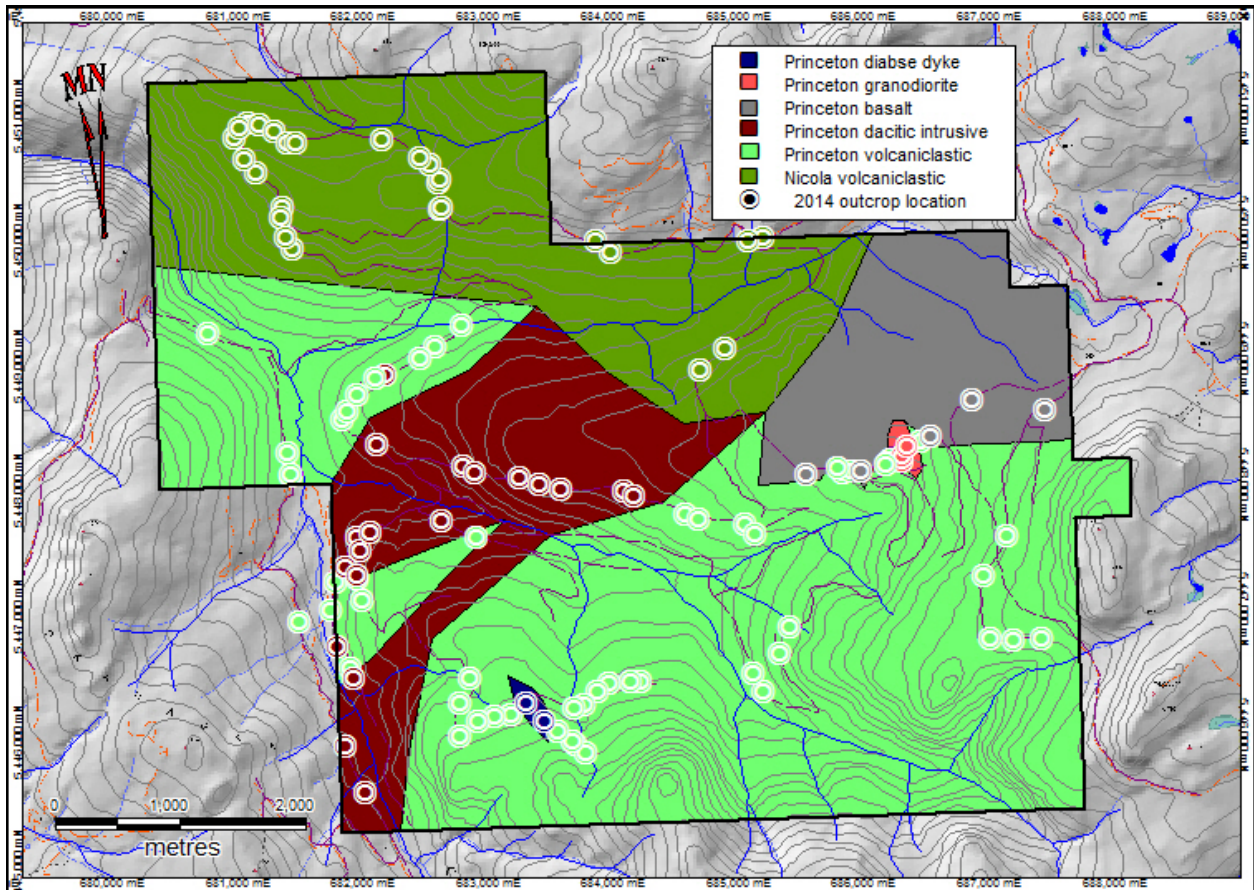
Figure 8. Rock Sampling ppb Au

### SAMPLE PREPARATION, ANALYSIS AND SECURITY

Samples were returned to Princeton on a daily basis where they were bagged and secured in the motel room. Upon returning to town daily, road soil samples were laid out in numbered sequence, to confirm complete sample succession, and placed in large plastic sample bags in groups of 10 to 15 per bag. Three to five plastic bags were then placed in a rice bag which was secured with a plastic ladder lock strap. The rock samples were similarly checked and placed sequentially into a rice bag which was secured with a plastic ladder lock strap. All samples delivered by the author at the completion of the program to ACME Analytical Laboratories in Vancouver, B.C.

Quality control procedures included the utilization of certified Standard blank samples prepared by CDN Resource Laboratories Ltd. of Langley, B.C. The Standard was weight-measured into sealed, heavy duty Ziploc bags and inserted into the sample stream.

No sample splitting or reduction was required since this program represented a preliminary survey.



UTM NAD 83 Zone 10

**Figure 9. Outcrop Locations**

All samples were analyzed at ACME Analytical Laboratories Ltd. in Vancouver, which is certified compliant with the International Standards Organization (ISO) 9001:2000 Model for Quality Assurance.

Wet or damp soil samples are dried at 60°C (Air dried or 40°C if specified by the client). Soil and sediment sieved to -80 mesh (SS80) or -230 mesh (SS230). Sieves cleaned by brush and compressed air between samples. The prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO<sub>3</sub> and DI H<sub>2</sub>O for one hour in a heating block or hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5 gram are analyzed with the option of 15 gram or 30 gram digestion available for AQ200. The solution is then analyzed utilizing 36 element ICP-MS.

Rock and Drill Core crushed to 70% passing 10 mesh (2mm), homogenized, riffle split (250g, 500g, or 1000g subsample) and pulverized to 85% passing 200 mesh (75 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite/Quartz wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite/Quartz is crushed and pulverized as first sample in sequence and carried through to analysis. The prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO<sub>3</sub> and DI H<sub>2</sub>O for one hour in a heating block or hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5 gram are analyzed with the option of 15 gram or 30 gram digestion available for AQ200. The solution is then analyzed utilizing 36 element ICP-MS.

The exploration program completed by 1007879 B.C. Ltd. consisted of preliminary surveys. Quality control procedures employed included a Blank Standard (CDN-BL-10) supplied by CDN Resource Labs which was inserted at regular intervals throughout the sample stream. The recommended value for the standard is <0.01 grams per tonne Au, equivalent to 10 parts per billion. The 9 analyses ranged from 0.8 ppb Au to 3.0 ppb Au (Table 6).

**Table 6. CDN Blank Standard Performance**

Sample No	ppb Au	Sample No	ppb Au	Sample No	ppb Au
RTH14-045B	2.5	RTH14-180B	2.7	PPJT-140B	2.0
RTH14-090B	1.4	PPJT-050B	3.0	PPJT-174B	0.8
RTH14-135B	1.2	PPJT-090B	1.5	838457B	1.8

The author feels that sample preparation, security and analytical procedures for the preliminary ground surveys on the Princeton property were adequate for this type of exploration program.

### **DATA VERIFICATION**

The author applied minimal verification procedures as he conducted the exploration program. The author either took the samples or supervised John Taylor as he took them. A review of the assay data shows no irregularities. The author is therefore satisfied that the data is adequate for the exploration programs it supports for the purpose of this technical report.

### **MINERAL PROCESSING AND METALLURGICAL TESTING**

There has been no mineral processing or metallurgical testing undertaken on the Princeton Project.

### **MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES**

There are presently no mineral reserves or mineral resources on the Princeton Project.

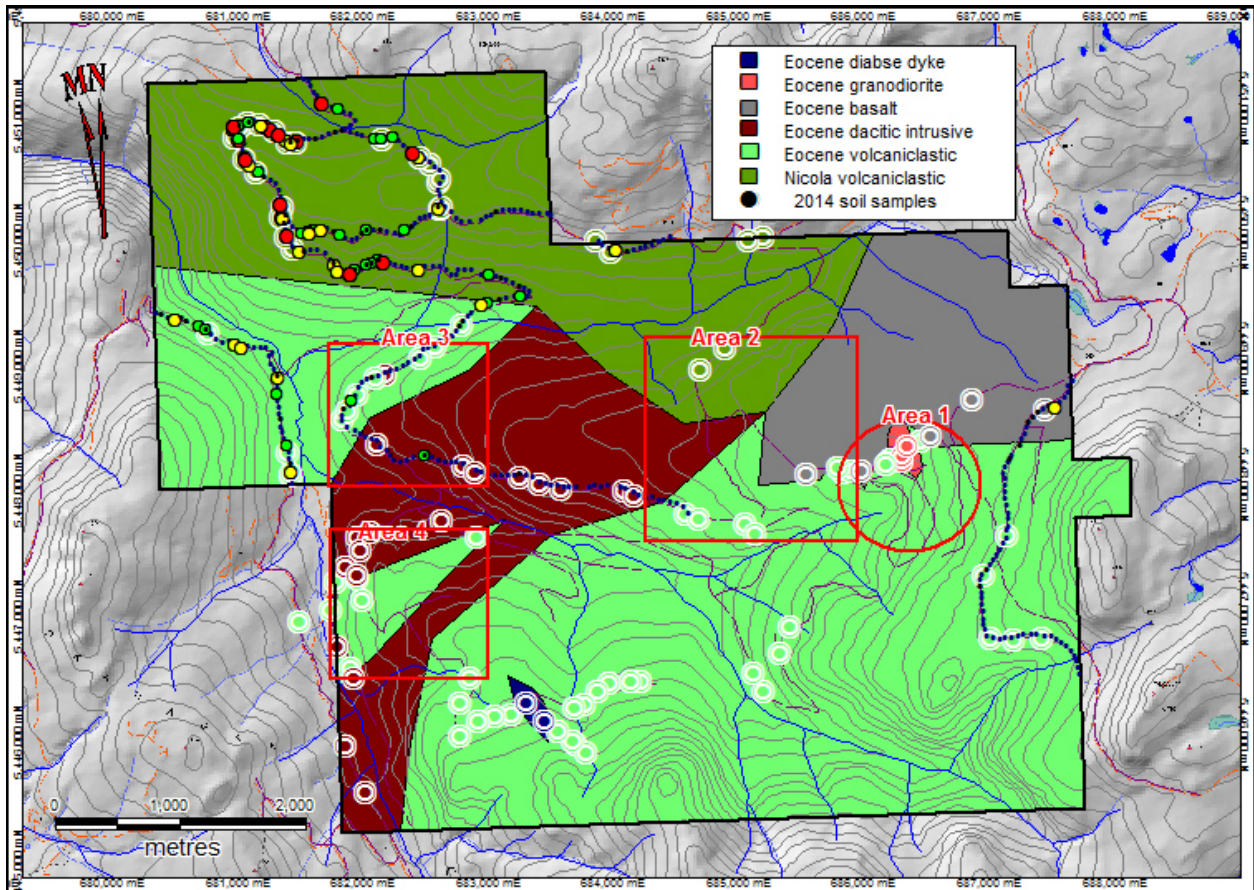


## ADJACENT PROPERTIES

This report is not relying on information from adjacent properties.

## OTHER RELEVANT DATA AND INFORMATION

There is no additional relevant data or information known that is not disclosed on the Princeton Project.



UTM NAD 83 Zone 10

Figure 10. 2011 Mineralized Areas

## INTERPRETATION AND CONCLUSIONS

The purpose of the July 2014 program was to evaluate areas of the Princeton Project that had not yet been explored to apply assessment credits. In addition, preliminary mapping was completed over the entire claim block. The mapping program indicates the Princeton Project claim block is underlain by Triassic Nicola Group volcaniclastics in the northwest and Eocene Princeton Group rocks throughout the remainder of the property. The road soil sampling completed over these areas identified anomalous values in both gold and copper in the Nicola Group and very little in the Princeton Group. The gold and copper anomalies should be field checked and then followed up with further sampling, if warranted.



The author is not aware of any significant risks and uncertainties that could reasonably be expected to affect the reliability or confidence in the exploration information.

The mapping program covered Area 1, Area 3 and Area 4 from the 2011 exploration program (Henneberry, and Wesa, 2012). Area 1 is underlain by Eocene volcanoclastic and basaltic rocks intruded by a small granodioritic plug. The contacts of the plug appear to be gossanous suggesting the presence of iron oxides. The sampling in 2011 located angular quartz cobbles and boulders. Very little quartz was noted in outcrop, suggesting the quartz was transported, though the angular nature of the quartz suggests a relatively proximal source.

Area 3 is underlain by Eocene volcanoclastics and dacites. Two samples of quartz veinlets within rusty volcanoclastics were taken. The road soil sampling in the area did not locate any significant anomalies.

Area 4 is underlain by the Eocene dacites and volcanoclastics. Zones of quartz veins up to 40 centimetres were sampled in 2011 with one returning a value in excess of 150 ppb Au. The area was not road soil sampled in the 2014 program as it was done in 2011, where anomalies along both roads sampled in the area could suggest linear structure. The anomalies need to be field checked.

However, the main focus of the Princeton Project continues to be the auriferous quartz veins discovered in 2010 and followed up in 2011. Complete details can be found in British Columbia Ministry of Energy Mines and Petroleum Resources Assessment Report 32838 (Henneberry and Wesa, 2012). As concluded in the 2012 report, *“an evaluation of 2010 and 2011 data suggests that quartz vein-hosted gold-sulphide mineralization may be associated with intermediate dikes and, also, may be structurally controlled, thus representing the surface expression of a larger, deeper gold bearing system. The presence of numerous surface gold-in-soil anomalies may be indicative of the potential for more substantial mineralization”*.

## RECOMMENDATIONS

The recommendations from Henneberry and Wesa's (2012) report remain more or less valid, though have been modified as some have been completed and are summarized below:

- 1) *Preliminary mapping to prepare a geological map and to establish the host lithology enclosing the quartz veins discovered during the 2011 field program (completed)*
- 2) *Prospect Areas 1 and 3, and a gold-in-soil anomaly in the northern portion of Phase I grid. (partially completed as Areas 1 and 3 were prospected)*
- 3) *Excavator trench to bedrock in the vicinity of Area 2 quartz veins and quartz float boulders, and possibly over other zones of elevated gold-in-soil values within the grid area. Chip sample all exposures.*
- 4) *Diamond drilling should follow up favourable chip sampling results.*
- 5) *Grid Induced Polarization (IP) survey the entire Phase 1 grid to detect buried structural features.*

**Table 7. Breakdown of Budget**

<b>Princeton Project Budget</b>						
Allow for 20 days of excavator trenching						
Allow for 500 rock samples						
Preliminary map of the property						
Prospect and sample all other anomalies						
Allow 100 rock samples and 400 soil samples						
Project Manager	20	days	@	\$ 750	/day	\$ 15,000
Contract geologist	40	days	@	\$ 650	/day	\$ 26,000
Contract geologist	16	days	@	\$ 650	/day	\$ 10,400
Assistant geologist	40	days	@	\$ 550	/day	\$ 22,000
Sampler	40	days	@	\$ 400	/day	\$ 16,000
Sampler	16	days	@	\$ 400	/day	\$ 6,400
Room & Board	172	days	@	\$ 100	/day	\$ 17,200
Vehicle + Fuel	76	days	@	\$ 200	/day	\$ 15,200
Trenching Mob / Demob						\$ 2,500
Excavator (all in)	200	hours	@	\$ 200	/hour	\$ 40,000
Analysis - rock	600	sample	@	\$ 35	/sample	\$ 21,000
Analysis - soil	400	sample	@	\$ 35	/sample	\$ 14,000
Data verification	30	sample	@	\$ 30	/sample	\$ 900
Permitting						\$ 10,000
Sundries						\$ 7,500
Documentation						\$ 9,000
Contingency						\$ 6,900
<b>Total Princeton Project Budget</b>						<b>\$ 240,000</b>

## REFERENCES

[www.em.gov.bc.ca/Mining/Geolsurv/Minfile/default.htm](http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile/default.htm). The British Columbia Ministry of Energy and Mines Minfile website provided a geological summary on the 092HSE map sheet.

[www.em.gov.bc.ca/Mining/Geolsurv/MapPlace/default.htm](http://www.em.gov.bc.ca/Mining/Geolsurv/MapPlace/default.htm). The British Columbia Ministry of Energy and Mines MapPlace website provided the regional geological map and legend.

Henneberry, R.T. (2008). Geological Report Placer Mountain Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 30654.

Henneberry, R.T. and Wesa, G.L. (2012). 2011 Geochemical Report Princeton Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 32838.

Henneberry, R.T. (2013). 2013 Geological and Geochemical Report Princeton Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 34468.

Henneberry, R.T. and Wesa, G.L. (2010a). 2010 Geochemical Report Willis Creek Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 31962.

Henneberry, R.T. and Wesa, G.L. (2010b). 2010 Geochemical Report Placer Creek Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 31762.

Henneberry, R.T. and Wesa, G.L. (2010c). 2010 Geochemical Report Placer Mountain Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 31933.

Lefebure, D.V. and Church, B. N. (1996): Polymetallic Veins Ag-Pb-Zn+/-Au, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Høy, T, Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1996-13, pages 67-70.

CERTIFICATE FOR R. TIMOTHY HENNEBERRY

I, R. Tim Henneberry, P. Geo., a consulting geologist with offices at 2446 Bidston Road, Mill Bay, B.C. V0R 2P4 do hereby certify that: I am the Qualified Person for:

**1007879 B.C. Ltd.**

1780 - 400 Burrard Street  
Vancouver, B.C. V6C 3A6

I earned a Bachelor of Science Degree majoring in geology from Dalhousie University, graduating in May 1980.

I am registered with the Association of Professional Engineers and Geoscientists in the Province of British Columbia as a Professional Geoscientist.

I have practiced my profession continuously for 34 years since graduation.

I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101. My relevant experience for the purpose of this Technical Report is:

- 34 years of exploration experience for base and precious metals in the Western Cordillera
- Continuing association with the various claim blocks of the Princeton Project since 2008

I am responsible for the preparation of the technical report titled "2014 Geological and Geochemical Report Princeton Project" and dated August 25, 2014 relating to the Princeton Project. I conducted the exploration program documented in this report between July 16 and July 24, 2014.

I have reviewed the data and written the assessment reports for the various claims of the Princeton Project since 2008, so I have had prior involvement with the property that is the subject of the Technical Report.

As of August 25, 2014, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

I am independent of the issuer after applying all of the tests in section 1.4 of NI 43-101.

I have read NI 43-101 and Form 43-101F, and the Technical Report has been prepared in compliance with that instrument and form.

I make this Technical Report effective August 25, 2014.

"signed and sealed"

---

R. Tim Henneberry, P. Geo

-31-  
STATEMENT OF COSTS

Field work was completed between July 16 and July 24, 2014.

<b>Field Crew</b>					\$18,275.00
Tim Henneberry	9 days	@	\$750 /day	\$6,750	
John Taylor	9 days	@	\$500 /day	\$4,500	
<b>Vehicle Rentals</b>					
Mammoth	9 days	@	\$100 /day	\$600	
<b>Documentation</b>					
Tim Henneberry	49 hours	@	\$125 /hour	\$6,125	
<b>Expenses</b>					\$4,225.79
Travel			\$143.80		
Hotel			\$2,203.64		
Meals			\$779.39		
Fuel			\$374.44		
Supplies			\$340.36		
Service charge			\$384.16		
<b>Analysis</b>					\$8,532.87
Work Order	Invoice				
VAN14002376	VANI206044		\$4,117.52		
VAN14002377	VANI206148		\$3,455.88		
VAN14002378	VANI206045		\$183.75		
Service (10%)			\$775.72		
<b>GST</b>					\$1,495.43
Services			\$913.75		
Expenses			\$211.29		
Analysis			\$426.64		
<b>Total Cost</b>					<b>\$32,585.34</b>

-31-  
STATEMENT OF COSTS

Field work was completed between July 16 and July 24, 2014.

<b>Field Crew</b>					\$18,275.00
Tim Henneberry	9 days	@	\$750 /day	\$6,750	
John Taylor	9 days	@	\$500 /day	\$4,500	
<b>Vehicle Rentals</b>					
Mammoth	9 days	@	\$100 /day	\$600	
<b>Documentation</b>					
Tim Henneberry	49 hours	@	\$125 /hour	\$6,125	
<b>Expenses</b>					\$4,225.79
Travel			\$143.80		
Hotel			\$2,203.64		
Meals			\$779.39		
Fuel			\$374.44		
Supplies			\$340.36		
Service charge			\$384.16		
<b>Analysis</b>					\$8,532.87
Work Order	Invoice				
VAN14002376	VANI206044		\$4,117.52		
VAN14002377	VANI206148		\$3,455.88		
VAN14002378	VANI206045		\$183.75		
Service (10%)			\$775.72		
<b>GST</b>					
Services					
Expenses					
Analysis					
<b>Total Cost</b>					<b>\$31,089.91</b>

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
RTH14-001	687703	5446504	1960	VAN14002376	0.5	13.2	5.5	25	<0.1	5	2.5	106	1.28	1.9	1.3	0.4	11	<0.1	<0.1	0.1	34
RTH14-002	687692	5446559	1955	VAN14002376	0.7	11.1	7.9	36	<0.1	8.6	3.9	222	1.47	1.7	<0.5	1.2	17	<0.1	<0.1	0.2	39
RTH14-003	687681	5446606	1953	VAN14002376	0.5	10.8	7.7	31	<0.1	7.2	3.3	159	1.22	1.5	0.5	0.9	15	<0.1	<0.1	0.1	34
RTH14-004	687668	5446649	1951	VAN14002376	0.2	11.5	7.3	27	<0.1	7.7	3.2	150	1.12	<0.5	2.9	1	48	<0.1	<0.1	0.2	31
RTH14-005	687642	5446695	1948	VAN14002376	0.5	7.8	5.5	25	<0.1	4.5	2.3	92	1.32	1.6	1	0.9	10	<0.1	0.1	0.2	31
RTH14-006	687602	5446726	1946	VAN14002376	0.4	8	5.2	20	<0.1	5.5	2.2	89	0.98	1.1	1.3	0.5	18	<0.1	<0.1	0.1	25
RTH14-007	687561	5446758	1943	VAN14002376	0.6	7.7	4.9	22	<0.1	6.3	2.6	66	1.41	1.4	<0.5	0.9	16	<0.1	<0.1	0.1	33
RTH14-008	687517	5446786	1940	VAN14002376	0.6	9.4	5.8	28	<0.1	8.1	3.7	207	1.42	0.9	2.8	1	26	<0.1	<0.1	0.1	37
RTH14-009	687477	5446806	1936	VAN14002376	0.6	13.6	6	35	<0.1	12	5	140	1.67	1.1	1.1	1.4	18	<0.1	<0.1	0.1	44
RTH14-010	687427	5446816	1937	VAN14002376	0.6	6.7	5.9	35	<0.1	5.5	3.4	224	1.27	1.8	<0.5	0.9	13	<0.1	<0.1	0.1	29
RTH14-011	686936	5446943	1915	VAN14002376	0.5	8.5	5.8	33	<0.1	10.9	4.1	139	1.6	1.4	0.8	1.1	16	<0.1	<0.1	<0.1	42
RTH14-012	686934	5447007	1916	VAN14002376	0.4	8.5	6.4	34	<0.1	10.8	3.6	159	1.41	1.3	1.8	1	17	<0.1	<0.1	0.2	35
RTH14-013	686930	5447057	1914	VAN14002376	0.8	4.6	5.2	20	<0.1	3.3	2.8	128	1.43	1.8	<0.5	1.1	12	<0.1	<0.1	0.1	30
RTH14-014	686927	5447109	1914	VAN14002376	0.5	5.4	5.7	27	<0.1	4.5	2.7	163	1.27	1.4	2.1	0.9	14	<0.1	<0.1	0.1	29
RTH14-015	686922	5447157	1913	VAN14002376	0.5	4.7	5.9	18	<0.1	2.4	1.8	119	1.28	1.3	1.2	0.8	12	<0.1	<0.1	0.1	30
RTH14-016	686916	5447203	1913	VAN14002376	0.6	5.8	5.3	22	<0.1	5.2	2.5	117	1.3	1.2	3	1.1	12	<0.1	<0.1	0.1	30
RTH14-017	686914	5447255	1915	VAN14002376	0.5	4.1	5.2	23	<0.1	4	2.2	73	1.42	2	2.9	1.1	11	<0.1	<0.1	<0.1	34
RTH14-018	686929	5447300	1915	VAN14002376	0.4	3.5	4.6	16	<0.1	2.7	1.2	44	0.99	0.9	1.8	0.6	11	<0.1	<0.1	0.1	24
RTH14-019	686962	5447341	1916	VAN14002376	0.4	5.1	5.1	19	<0.1	4.7	2.3	87	1.33	1.6	3.1	1.1	17	<0.1	<0.1	<0.1	34
RTH14-020	686989	5447374	1914	VAN14002376	0.6	5.2	5.2	20	<0.1	6	2.1	64	1.32	1.8	1.4	0.8	24	<0.1	<0.1	0.1	30
RTH14-021	687017	5447419	1917	VAN14002376	0.4	6.9	4.6	26	<0.1	8.3	3.1	61	1.46	0.9	2.5	0.7	35	<0.1	<0.1	<0.1	33
RTH14-022	687048	5447462	1921	VAN14002376	0.3	16.7	6.2	34	<0.1	17.4	6	224	1.83	1.3	1.3	1.9	68	<0.1	<0.1	0.1	48
RTH14-023	687073	5447503	1923	VAN14002376	0.5	7.7	5.1	29	<0.1	7.2	3.2	226	1.34	0.6	1.1	0.9	34	<0.1	<0.1	0.1	33
RTH14-024	687097	5447549	1925	VAN14002376	0.4	10.4	4.7	33	<0.1	10.1	4.4	109	1.57	1.5	2.4	1.2	21	<0.1	<0.1	0.1	42
RTH14-025	687124	5447592	1922	VAN14002376	0.4	15.3	6.2	47	<0.1	15	5.5	404	1.71	1.4	<0.5	1.2	55	<0.1	<0.1	0.1	49
RTH14-026	687128	5447653	1922	VAN14002376	0.4	9.2	5.1	27	<0.1	7.7	3.5	105	1.45	1.4	0.8	1.4	24	<0.1	<0.1	<0.1	36
RTH14-027	687133	5447687	1921	VAN14002376	0.3	13.1	7.1	29	<0.1	12.4	5	97	1.55	1.3	<0.5	1.7	34	<0.1	<0.1	0.1	42
RTH14-028	687136	5447744	1918	VAN14002376	0.3	6.1	6.1	14	<0.1	3.6	1.5	30	0.69	<0.5	0.9	0.5	19	<0.1	<0.1	0.1	14
RTH14-029	687134	5447789	1915	VAN14002376	0.3	9.1	6.2	35	<0.1	9.2	3.1	114	1.27	1.2	<0.5	1.1	22	<0.1	<0.1	0.1	33
RTH14-030	687226	5448330	1894	VAN14002376	0.2	20.1	8.6	32	<0.1	17.5	6.4	117	1.9	<0.5	3	2.5	58	<0.1	<0.1	0.2	52
RTH14-031	687239	5448386	1894	VAN14002376	0.3	9.2	7.3	25	<0.1	9.3	3.5	233	1.27	1.5	2.3	0.8	29	<0.1	<0.1	0.1	32
RTH14-032	687265	5448430	1890	VAN14002376	0.2	24.8	8.2	38	<0.1	17.3	7.6	472	1.72	0.6	1.3	2.4	115	<0.1	<0.1	<0.1	52
RTH14-033	687277	5448471	1891	VAN14002376	0.3	21.9	6.3	38	<0.1	17.7	6.7	246	2	1	2	2.2	61	0.1	<0.1	<0.1	61
RTH14-034	687299	5448519	1882	VAN14002376	0.3	18.3	6	46	<0.1	20.7	8.6	154	2.2	1	3.3	1.6	29	<0.1	<0.1	<0.1	61
RTH14-035	687335	5448562	1878	VAN14002376	0.3	14.1	6.2	35	<0.1	9.5	5.1	113	1.78	1.3	3.1	1.6	48	<0.1	<0.1	<0.1	48
RTH14-036	687368	5448596	1875	VAN14002376	0.2	21.9	7.3	40	<0.1	18.8	7.3	117	2.15	1.2	3.2	1.9	47	<0.1	<0.1	<0.1	60
RTH14-037	687410	5448625	1871	VAN14002376	0.4	16.8	6.7	36	<0.1	16.2	6.7	140	2.08	1.8	<0.5	1.5	29	<0.1	<0.1	0.1	54
RTH14-038	687451	5448645	1866	VAN14002376	<0.1	47.8	7	43	<0.1	17.4	9.8	424	2.14	0.9	1.7	3.3	129	<0.1	<0.1	<0.1	65
RTH14-039	687504	5448651	1865	VAN14002376	0.3	22.8	7.7	38	<0.1	18	8	230	2.24	2.6	6.3	2	34	<0.1	<0.1	0.1	69
RTH14-040	687551	5448678	1861	VAN14002376	0.3	21.4	8.1	44	<0.1	15.4	7.1	119	2.04	1.6	1.2	1.8	43	<0.1	<0.1	0.1	62
RTH14-041	687586	5448710	1854	VAN14002376	0.4	18.1	7.7	41	0.1	10.5	4.6	115	1.77	2	0.6	1.9	27	<0.1	<0.1	0.1	51
RTH14-042	687609	5448754	1851	VAN14002376	0.5	19.4	7.7	36	<0.1	15.8	5.8	115	1.93	2	1.3	1.5	29	<0.1	<0.1	0.1	53
RTH14-043	683864	5449964	1513	VAN14002376	1.9	30	6.2	114	0.2	33.4	12	609	2.55	3.6	2.1	1.6	41	1	0.3	<0.1	71
RTH14-044	683899	5449930	1512	VAN14002376	0.3	41.4	4.2	52	0.3	56.3	13.2	361	2.9	2.9	1.9	2.5	71	<0.1	0.1	<0.1	82
RTH14-045	683944	5449910	1512	VAN14002376	0.4	27.1	4.3	78	0.3	34.2	8.4	243	2.12	2.4	2.3	2.1	43	0.2	0.2	<0.1	62
RTH14-046	683995	5449899	1515	VAN14002376	3	147.7	24.7	289	0.7	156.7	49.6	1760	8.55	32.4	9	4.2	48	2.6	1.9	0.2	178
RTH14-047	684038	5449873	1511	VAN14002376	0.4	11.8	3.6	69	<0.1	14.3	4.3	412	1.52	1.3	1.4	0.9	34	0.1	<0.1	<0.1	36
RTH14-048	684088	5449878	1510	VAN14002376	0.7	40	5.3	67	0.1	48.7	12.2	426	2.75	3.9	3	2.3	70	0.2	0.2	<0.1	72
RTH14-049	683491	5450173	1521	VAN14002376	0.3	64.1	5.3	43	0.2	52.5	8.4	442	2.08	3.2	2.5	2.4	79	<0.1	<0.1	<0.1	48

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
RTH14-050	683455	5450181	1523	VAN14002376	0.6	12.8	3.8	47	<0.1	14.9	5.9	717	1.33	2.3	1.1	0.8	48	<0.1	<0.1	<0.1	35
RTH14-051	683395	5450185	1522	VAN14002376	0.7	12.1	3.8	74	<0.1	22.2	5.2	365	1.46	1.6	0.6	1.3	39	<0.1	<0.1	<0.1	38
RTH14-052	683345	5450188	1522	VAN14002376	1.2	12.3	4.8	55	<0.1	16.8	4.7	580	1.34	1.6	<0.5	0.9	38	<0.1	<0.1	<0.1	35
RTH14-053	683296	5450196	1526	VAN14002376	0.6	11.2	3.4	86	<0.1	15.7	3.9	572	1.34	1.7	2.1	0.8	37	0.2	<0.1	<0.1	31
RTH14-054	683248	5450205	1526	VAN14002376	1.3	13.9	3.9	71	<0.1	14.2	6	641	1.6	1.8	0.5	0.6	35	<0.1	<0.1	<0.1	40
RTH14-055	683197	5450208	1528	VAN14002376	0.8	16.6	4	63	0.1	16.9	7.4	572	1.68	2.3	<0.5	1.1	38	0.1	<0.1	<0.1	39
RTH14-056	683153	5450204	1527	VAN14002376	1.7	28.5	5.9	82	<0.1	28.8	9.9	660	2.03	4.2	1.3	1.2	40	0.2	0.1	<0.1	46
RTH14-057	683104	5450206	1528	VAN14002376	1.4	32.4	5	78	0.2	20.6	8.3	485	2.29	5.1	0.7	1.4	33	0.2	0.4	<0.1	50
RTH14-058	683050	5450195	1530	VAN14002376	1.3	14.9	4.7	103	0.1	14.4	6.5	558	1.74	3.1	4.3	0.8	24	0.2	0.2	<0.1	39
RTH14-059	683004	5450176	1531	VAN14002376	1.2	19.4	5.1	119	0.2	17.4	6.1	824	1.64	3	<0.5	1.1	29	0.2	0.1	<0.1	34
RTH14-060	682965	5450156	1534	VAN14002376	0.8	22.7	6.1	165	<0.1	25.1	7.2	895	1.9	2.9	1.4	1.5	63	0.6	0.1	<0.1	36
RTH14-061	682928	5450128	1535	VAN14002376	0.5	27	4.9	117	0.1	25.8	6.6	693	1.88	3.5	0.9	1.5	56	0.1	0.1	<0.1	35
RTH14-062	682840	5450116	1534	VAN14002376	0.3	29.1	5.7	89	0.1	21.7	7.6	508	2.35	2.1	2.3	2	50	0.1	<0.1	0.1	44
RTH14-063	682131	5450783	1487	VAN14002376	2.3	58.9	5.9	74	0.1	29.7	11.5	481	2.81	8.8	5	1.7	49	0.2	0.6	<0.1	74
RTH14-064	682079	5450779	1481	VAN14002376	1.7	76.4	7.7	77	0.3	39.5	8.7	475	2.76	4.2	2.3	1.9	54	0.4	0.2	0.1	51
RTH14-065	682037	5450793	1476	VAN14002376	1.4	34	5	82	0.3	26.4	10	221	2.4	4.7	2.9	1.5	29	0.4	0.3	<0.1	64
RTH14-066	681983	5450799	1470	VAN14002376	1.6	32	5.5	60	0.2	32.9	7.1	201	2.29	3.3	<0.5	1.4	33	0.4	0.3	<0.1	52
RTH14-067	681937	5450815	1467	VAN14002376	1	19.6	5.5	86	0.2	22.4	8.4	430	1.82	3.9	1.9	1.2	20	0.3	<0.1	<0.1	50
RTH14-068	681888	5450828	1461	VAN14002376	1.1	45.2	3.9	57	0.1	27	10.2	291	2.65	3.8	1.7	1.5	40	0.2	0.2	<0.1	82
RTH14-069	681848	5450860	1451	VAN14002376	0.5	14.7	4.8	26	<0.1	12.7	4.2	107	1.33	1.7	2.6	0.6	23	<0.1	<0.1	<0.1	38
RTH14-070	681883	5450890	1448	VAN14002376	2.4	52.3	6.3	77	0.3	35.2	13	690	2.9	4.8	1.9	2	49	0.7	0.4	<0.1	64
RTH14-071	681922	5450923	1444	VAN14002376	1.3	33.2	4.4	57	0.1	24.1	10.8	280	2.41	4.4	1.6	1.2	36	0.2	0.2	<0.1	65
RTH14-072	681885	5450981	1450	VAN14002376	0.6	19.7	4.1	44	<0.1	25.1	6.5	192	1.93	1	2.9	1.1	42	<0.1	0.1	<0.1	50
RTH14-073	681831	5450989	1443	VAN14002376	0.7	23	2.7	36	<0.1	25.4	7.7	197	1.88	1.3	2	1.2	53	<0.1	0.1	<0.1	62
RTH14-074	681786	5451012	1439	VAN14002376	0.3	23.7	2.8	32	<0.1	24.6	6.5	141	1.95	0.9	5.9	1.3	60	<0.1	0.2	<0.1	62
RTH14-075	681513	5451261	1410	VAN14002376	0.6	35.2	5.4	63	0.1	32.1	9	177	2.43	1.6	2.8	1.7	57	0.2	<0.1	<0.1	67
RTH14-076	681548	5451238	1417	VAN14002376	0.4	34.6	4.7	50	0.1	39.6	8	222	2.2	2.2	2.8	1.8	62	0.1	0.2	<0.1	60
RTH14-077	681573	5451195	1417	VAN14002376	0.2	14	3.4	48	<0.1	17.2	4.8	269	1.58	1.2	<0.5	0.7	38	<0.1	<0.1	<0.1	43
RTH14-078	681592	5451147	1420	VAN14002376	0.6	12.9	3.7	45	<0.1	19.8	5.5	114	1.67	0.7	2.4	0.8	25	<0.1	<0.1	<0.1	38
RTH14-079	682587	5450241	1552	VAN14002376	11	111.9	11.5	215	0.6	48.9	11.7	708	3.37	5.4	4.8	2.3	56	2.3	2.1	0.1	35
RTH14-080	682564	5450193	1548	VAN14002376	2	13.9	5.1	96	0.1	15	5.1	991	1.5	2	2.2	0.8	34	0.4	0.1	<0.1	31
RTH14-081	682523	5450168	1544	VAN14002376	1.7	18.2	4.6	67	0.2	19.4	6.3	350	1.58	2.5	1.3	1.2	28	0.2	0.3	<0.1	30
RTH14-082	682476	5450155	1546	VAN14002376	1.4	36.6	5.7	70	0.2	23.8	9.3	481	2.19	4.3	2.1	1.7	35	0.4	0.3	0.1	46
RTH14-083	682438	5450137	1545	VAN14002376	1.6	42.7	5.7	119	0.5	23	8.6	704	2.12	3.9	0.8	1.5	50	0.9	0.3	<0.1	36
RTH14-084	682404	5450104	1543	VAN14002376	2.9	21.9	6.5	134	0.3	20.1	6	885	1.77	3.6	2.6	1.1	41	1.4	0.3	0.1	32
RTH14-085	682369	5450073	1546	VAN14002376	3.9	31.5	6.1	144	0.3	27.1	8.1	724	2.04	5	3	1.3	46	0.7	0.7	0.1	38
RTH14-086	682321	5450045	1544	VAN14002376	1.7	33.4	6.4	135	0.3	25.1	8.4	818	1.91	3.9	5.8	1.2	34	0.8	0.3	0.1	33
RTH14-087	682287	5450017	1545	VAN14002376	4.8	27.5	6.1	178	0.4	29	8.1	994	2.02	5.5	<0.5	1	51	3	0.7	<0.1	33
RTH14-088	682240	5450023	1542	VAN14002376	4.2	27	6	141	0.3	28.2	8.2	681	2.22	4.3	2.8	1.3	54	1.4	0.5	0.1	38
RTH14-089	681701	5450061	1532	VAN14002376	2.6	31.1	4.2	165	0.2	25.5	10.3	656	2.01	4.1	<0.5	0.7	38	2.5	0.3	<0.1	37
RTH14-090	681651	5450064	1528	VAN14002376	2	53.7	6.4	144	0.2	30.2	16.2	932	2.63	6.9	8.8	0.4	46	2	0.3	<0.1	46
RTH14-091	681593	5450047	1527	VAN14002376	1	106.8	5.9	91	0.2	30.3	16.3	740	2.92	14	1.7	1.3	41	0.4	0.6	<0.1	50
RTH14-092	681553	5450036	1527	VAN14002376	1.4	106.8	6.6	83	0.2	34.1	21.3	845	3.85	25.4	6.2	0.9	36	0.3	0.7	0.1	56
RTH14-093	681505	5450028	1526	VAN14002376	1.2	76.2	7.3	90	0.1	25.5	16.6	947	2.66	17.9	1.6	0.6	43	0.7	0.5	<0.1	47
RTH14-094	681465	5450049	1527	VAN14002376	0.7	38.2	6	100	0.1	18.4	13.1	1797	2.25	7.5	2.9	0.8	49	0.4	0.3	0.1	41
RTH14-095	681426	5450083	1527	VAN14002376	0.9	53.3	7.8	89	<0.1	26.4	17.2	1284	3.4	8.6	<0.5	2	35	0.4	0.3	0.1	59
RTH14-096	681396	5450121	1527	VAN14002376	0.8	45.7	5	72	0.2	24.1	12.6	617	2.36	7.1	1.1	1.3	27	0.2	0.2	<0.1	48
RTH14-097	681368	5450166	1526	VAN14002376	1.1	54.3	5.4	103	0.2	31.2	14.5	961	2.68	9.6	3	1.7	42	0.4	0.3	0.1	52
RTH14-098	681353	5450195	1526	VAN14002376	0.9	48	5.2	118	<0.1	24.3	12.3	1035	2.31	11.7	<0.5	1.5	45	0.3	0.3	<0.1	43



Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
RTH14-099	681032	5450646	1528	VAN14002376	1.1	111.5	7.5	117	0.1	27.1	23.1	889	4.01	17	2.2	2	42	0.3	0.4	0.1	58
RTH14-100	681029	5450688	1531	VAN14002376	1.3	47.4	5.3	89	<0.1	22.8	11.8	728	2.66	3.2	1.8	1.2	33	0.2	0.3	<0.1	55
RTH14-101	681031	5450733	1529	VAN14002376	3.2	67.5	7.7	129	0.2	23.5	11.3	711	2.57	4.7	1.5	1.4	30	1.1	0.5	0.1	48
RTH14-102	680996	5450781	1529	VAN14002376	2.7	276.9	12.3	109	0.2	59	70.8	1279	6.21	32.9	5.6	2	33	0.8	1.6	0.1	81
RTH14-103	680963	5450804	1528	VAN14002376	1.2	48.8	6.9	128	<0.1	21.2	13.3	1219	2.95	2.9	2.1	1.6	31	0.7	0.3	0.1	55
RTH14-104	680941	5450850	1527	VAN14002376	1.2	93.1	5.9	83	0.1	31	17.4	378	3.05	4.8	0.7	1.9	25	0.2	0.2	0.1	48
RTH14-105	680957	5450882	1521	VAN14002376	12.8	266.7	16.8	104	0.1	51.3	32.5	1497	12.78	39.8	18.8	2.7	21	0.1	2.9	0.1	69
RTH14-106	681000	5450889	1511	VAN14002376	1.9	93.3	7.9	123	<0.1	29.2	23.6	863	4.26	6.6	4.8	1.7	15	0.2	0.4	0.2	50
RTH14-107	681027	5450900	1509	VAN14002376	1.1	30.6	5.8	94	<0.1	13.2	10.4	1313	2.11	3.9	0.9	0.7	12	0.2	0.1	0.1	45
RTH14-108	681083	5450915	1504	VAN14002376	65.6	105.2	12.7	402	1	83.7	18.4	434	5.99	37.4	4.6	3.3	18	1.6	3.5	0.2	94
RTH14-109	681123	5450920	1502	VAN14002376	1.5	18.4	6.1	217	0.4	21.4	6.9	460	2.16	5.4	<0.5	1.7	14	1.8	0.2	0.1	42
RTH14-110	681816	5450839	1449	VAN14002376	1.4	53.9	4.1	50	<0.1	28.9	13.1	474	2.83	4.6	3.5	1.6	51	0.1	0.3	<0.1	87
RTH14-111	681759	5450828	1453	VAN14002376	1.2	44	4.6	50	<0.1	28.3	11.6	350	2.53	3.6	4	1.4	39	<0.1	0.2	<0.1	72
RTH14-112	681714	5450815	1457	VAN14002376	1.5	48.4	3.9	47	<0.1	29.5	12.2	388	2.77	3.4	0.8	1.6	47	0.1	0.3	<0.1	80
RTH14-113	681665	5450796	1460	VAN14002376	1.5	50.5	3.6	47	<0.1	27.2	11	333	2.77	4.4	0.9	1.7	52	<0.1	0.3	<0.1	81
RTH14-114	681331	5450195	1525	VAN14002376	1	69.5	4.9	78	0.2	26.1	14.1	564	3.03	8.7	1.2	1.5	41	0.1	0.4	<0.1	70
RTH14-115	681343	5450151	1520	VAN14002376	2.2	243.5	8.1	87	0.2	78	67.2	979	7.67	34.7	7.2	2.3	56	0.2	1.2	<0.1	110
RTH14-116	681351	5450100	1517	VAN14002376	1	69.1	6.9	79	0.2	26.8	16.6	697	2.76	11.2	3	1.2	35	0.3	0.3	<0.1	60
RTH14-117	681363	5450053	1513	VAN14002376	1.1	56.2	6.6	76	0.2	28.9	15.7	910	2.79	6.5	2.4	1.3	34	0.3	0.3	0.1	66
RTH14-118	681378	5450006	1511	VAN14002376	1.1	50.3	4.9	80	0.2	27.3	11.7	420	2.66	5.1	39.4	1.6	36	0.2	0.3	<0.1	66
RTH14-119	681402	5449954	1507	VAN14002376	0.7	37.9	4.4	66	0.2	22.7	9.3	354	2.23	3.1	1.1	1.3	34	0.1	0.2	<0.1	54
RTH14-120	681427	5449918	1504	VAN14002376	0.7	48.1	5.6	84	0.2	30.1	11.6	376	2.52	4.6	1.9	1.7	35	0.2	0.3	<0.1	57
RTH14-121	681470	5449896	1501	VAN14002376	1	48.7	5.1	88	0.2	27.7	13	453	2.57	5.7	6.2	1.8	34	0.2	0.3	<0.1	60
RTH14-122	681518	5449882	1498	VAN14002376	0.8	52	5.6	70	0.1	27	12.1	478	2.71	5.2	3.5	1.8	44	0.2	0.3	<0.1	64
RTH14-123	681566	5449891	1495	VAN14002376	0.8	37.1	5.4	87	0.2	21.3	11.8	690	2.34	8.2	0.7	1.3	34	0.2	0.2	<0.1	53
RTH14-124	682053	5449791	1468	VAN14002376	8.2	94.1	6.3	158	0.5	46.6	15.8	531	3.81	17	3.2	1.2	46	1.5	1.7	<0.1	75
RTH14-125	682107	5449817	1463	VAN14002376	13.1	98.8	8	184	0.5	40.8	19.3	772	4.09	18.3	4.8	1.9	62	1.4	2.7	<0.1	85
RTH14-126	682149	5449796	1460	VAN14002376	6.8	61.8	6.4	156	0.3	34.9	12.9	644	3.4	12	18.9	1.3	51	1.5	1.3	<0.1	66
RTH14-127	682197	5449787	1459	VAN14002376	5.3	59.1	5.6	183	0.3	28.5	11.9	693	2.49	8.5	1.6	0.5	56	2.8	1	<0.1	47
RTH14-128	682241	5449778	1458	VAN14002376	4.1	49.5	6.5	138	0.3	27.3	11.1	815	2.51	7.7	2.4	0.6	57	1.6	0.8	<0.1	50
RTH14-129	682293	5449762	1454	VAN14002376	5.8	64.4	7.3	163	0.3	32.2	13.1	755	2.92	11.4	2	1	63	2.1	1.2	<0.1	56
RTH14-130	682337	5449749	1449	VAN14002376	9.9	29.1	6.7	335	0.2	24.1	10.8	884	2.41	7.9	2.4	0.9	31	6.9	1.4	0.1	49
RTH14-131	682388	5449744	1444	VAN14002376	5.6	26.5	5.2	201	0.4	27.6	8.9	611	2.13	5.1	<0.5	1.6	34	1.7	0.6	<0.1	42
RTH14-132	682431	5449748	1440	VAN14002376	2.7	24.5	4.4	145	0.3	20	7.3	637	2.12	3.6	9.8	1.3	40	1.3	0.3	<0.1	40
RTH14-133	682481	5449756	1436	VAN14002376	2.3	24.9	5.2	82	0.1	15.9	7.5	641	1.94	4.3	2.2	1.2	28	0.5	0.3	<0.1	42
RTH14-134	683042	5449680	1405	VAN14002376	0.5	27.4	4.8	57	0.2	18.9	5.5	203	1.72	3.8	2.2	1.2	35	<0.1	0.1	<0.1	41
RTH14-135	683088	5449665	1404	VAN14002376	0.7	42.3	5.4	64	0.3	29	8.4	305	2.45	5.7	4.4	2	44	0.2	0.4	<0.1	55
RTH14-136	683130	5449649	1402	VAN14002376	0.6	23	3.9	52	0.3	16.3	6.3	244	1.57	3.8	<0.5	0.8	30	<0.1	0.1	<0.1	42
RTH14-137	683182	5449628	1401	VAN14002376	0.6	29.2	4.9	61	0.2	22.7	8.2	480	2.13	4.6	0.7	1.5	40	0.1	0.2	<0.1	58
RTH14-138	683227	5449605	1399	VAN14002376	2.6	44.8	5	71	0.2	27.2	9.4	413	2.35	7.2	3.4	1.6	46	0.6	0.5	<0.1	68
RTH14-139	683274	5449581	1398	VAN14002376	0.6	18.1	3.7	42	0.2	14	4.9	236	1.43	2.4	<0.5	0.8	29	<0.1	<0.1	<0.1	38
RTH14-140	683314	5449565	1398	VAN14002376	1	20.5	5.2	71	0.2	23.3	8.1	199	1.93	2.9	1.6	1.4	21	0.1	0.1	<0.1	45
RTH14-141	683297	5449527	1388	VAN14002376	1	19.7	4.8	60	0.2	20	7.9	174	1.85	3	1.9	1.1	29	<0.1	0.1	<0.1	43
RTH14-142	683248	5449520	1388	VAN14002376	0.7	19.5	4.7	62	0.1	19.3	5.5	246	1.6	2	5.9	1.2	30	<0.1	0.2	<0.1	46
RTH14-143	683196	5449515	1385	VAN14002376	0.9	16.1	5.2	68	0.2	17.2	6.7	443	1.6	2.3	1	0.9	49	0.1	0.2	0.1	38
RTH14-144	682727	5449240	1371	VAN14002376	0.4	20.9	4	44	<0.1	15.2	5.2	218	1.84	1.8	<0.5	0.8	35	<0.1	0.2	<0.1	48
RTH14-145	682696	5449200	1374	VAN14002376	0.4	34.8	4.9	69	0.1	23	6	270	2.28	2.1	<0.5	1.5	58	0.2	0.3	<0.1	55
RTH14-146	682640	5449182	1378	VAN14002376	0.5	20.5	5.1	49	0.3	17.3	4.4	153	1.4	1.5	<0.5	0.7	24	0.1	<0.1	<0.1	30
RTH14-147	682600	5449159	1381	VAN14002376	0.5	21.4	4.1	63	0.2	16.4	6.3	376	1.59	1.5	0.6	0.6	32	<0.1	0.1	<0.1	43

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
RTH14-148	682556	5449131	1382	VAN14002376	0.8	34.2	5.5	65	<0.1	32.9	6.9	286	2.29	3.5	0.8	1.6	36	<0.1	0.3	0.1	58
RTH14-149	682511	5449109	1382	VAN14002376	1.5	34	4.7	61	<0.1	24.1	7.3	284	2.31	4.7	0.8	1.7	36	<0.1	0.5	<0.1	59
RTH14-150	682471	5449092	1382	VAN14002376	1.1	39.5	5.2	66	<0.1	29	9	330	2.6	5.4	<0.5	2.3	46	0.1	0.4	0.1	60
RTH14-151	682442	5449041	1386	VAN14002376	2.2	26.2	7.3	113	0.1	35.2	10.8	513	2.43	5.7	<0.5	1.8	27	0.2	0.3	0.1	52
RTH14-152	682398	5449020	1384	VAN14002376	1.8	36.2	4.8	66	<0.1	22.3	9.5	363	2.41	5.1	1.5	1.8	49	0.2	0.5	<0.1	58
RTH14-153	682353	5448988	1384	VAN14002376	0.5	17	4.6	55	0.1	13.5	4.6	356	1.44	1.7	<0.5	0.8	32	0.3	0.1	<0.1	35
RTH14-154	682285	5448205	1357	VAN14002376	0.7	18	4.7	82	0.1	18.5	6.5	257	1.76	1.9	1.6	1.7	23	0.1	0.1	<0.1	48
RTH14-155	682234	5448212	1354	VAN14002376	0.2	13	4.7	77	0.1	13.7	4.9	134	1.47	1.1	<0.5	0.7	23	<0.1	<0.1	<0.1	36
RTH14-156	682199	5448248	1358	VAN14002376	0.4	13.2	5.7	68	0.2	13.6	3.9	304	1.34	1.5	<0.5	0.8	35	<0.1	<0.1	<0.1	27
RTH14-157	682174	5448287	1359	VAN14002376	1.2	35.5	5.5	67	<0.1	21.2	8.5	341	2.59	4.4	0.9	1.9	40	0.2	0.3	<0.1	71
RTH14-158	682127	5448324	1365	VAN14002376	0.7	13.7	5.4	87	0.2	13.3	5.1	763	1.54	1.6	0.8	1	33	0.5	0.1	<0.1	38
RTH14-159	682099	5448368	1366	VAN14002376	0.5	15.7	4.9	66	0.1	11.1	6	256	1.63	1.6	0.8	1.1	47	<0.1	<0.1	<0.1	46
RTH14-160	682051	5448389	1366	VAN14002376	0.8	69	5.6	96	0.4	31.8	8	629	2.4	3.6	0.6	1.6	64	0.6	0.3	<0.1	54
RTH14-161	682006	5448401	1368	VAN14002376	0.8	12.4	4	75	0.1	13.5	5.2	165	1.56	1.2	<0.5	1.1	21	0.1	<0.1	<0.1	36
RTH14-162	681966	5448424	1370	VAN14002376	0.8	17.7	4.8	93	0.1	20.6	7.1	350	1.91	2.3	<0.5	1.4	32	0.2	0.2	<0.1	48
RTH14-163	681922	5448453	1372	VAN14002376	1	21.3	5.2	91	<0.1	22.5	7.6	239	2.06	2.6	<0.5	1.4	24	0.2	0.2	<0.1	47
RTH14-164	684587	5447793	1547	VAN14002376	0.1	9.4	4.1	47	<0.1	17.1	3.1	196	1.19	1.3	<0.5	0.7	26	<0.1	<0.1	<0.1	35
RTH14-165	684541	5447838	1541	VAN14002376	0.2	9	5.1	65	<0.1	26.6	4.9	419	1.45	0.5	<0.5	0.7	21	<0.1	<0.1	0.1	39
RTH14-166	684490	5447866	1534	VAN14002376	0.2	15.8	4.3	41	<0.1	24	6.2	367	1.46	1.5	1.8	1	51	<0.1	<0.1	<0.1	42
RTH14-167	684441	5447875	1531	VAN14002376	0.1	12.1	4.5	38	<0.1	20.4	4.6	223	1.26	0.9	0.9	0.8	33	<0.1	<0.1	<0.1	35
RTH14-168	684390	5447889	1527	VAN14002376	0.2	14.9	4.1	37	<0.1	25.1	5.5	392	1.4	0.8	0.8	1.3	51	<0.1	<0.1	<0.1	42
RTH14-169	684339	5447895	1524	VAN14002376	0.1	13.4	4.4	43	<0.1	21.5	5	282	1.5	1.1	<0.5	1	29	<0.1	<0.1	0.1	40
RTH14-170	684291	5447923	1528	VAN14002376	0.1	22.5	5.9	49	<0.1	27.4	4.6	217	1.62	1.1	0.8	1.2	43	<0.1	<0.1	0.1	35
RTH14-171	684241	5447913	1526	VAN14002376	0.1	14.1	3.5	34	<0.1	22	4.3	127	1.41	1.1	1	1.4	32	<0.1	<0.1	<0.1	38
RTH14-172	684190	5447933	1526	VAN14002376	0.4	12.2	4.1	51	<0.1	29.5	5	167	1.37	1.3	<0.5	0.9	22	<0.1	<0.1	<0.1	34
RTH14-173	684140	5447954	1524	VAN14002376	0.4	9.4	4	37	<0.1	18.4	5.6	222	1.41	<0.5	<0.5	0.9	23	<0.1	<0.1	0.1	37
RTH14-174	683591	5448003	1482	VAN14002376	0.5	12.2	4	58	<0.1	20.9	6	489	1.61	1.2	<0.5	1	20	<0.1	<0.1	<0.1	45
RTH14-175	683540	5448010	1476	VAN14002376	0.2	12.1	3.1	40	<0.1	21.3	5	186	1.43	0.6	1.3	1	25	<0.1	<0.1	<0.1	39
RTH14-176	683489	5448016	1472	VAN14002376	0.4	7.1	4.6	73	<0.1	17.6	4.7	451	1.41	1.3	0.8	1	10	<0.1	<0.1	<0.1	35
RTH14-177	683441	5448027	1466	VAN14002376	0.1	11.7	3.7	35	<0.1	30.3	4.3	125	1.37	1.1	0.9	1.1	28	<0.1	<0.1	<0.1	34
RTH14-178	683391	5448044	1459	VAN14002376	0.3	19.7	3.3	39	<0.1	21.5	5.4	247	1.58	1.1	2.7	1.1	36	<0.1	<0.1	0.1	41
RTH14-179	683340	5448073	1455	VAN14002376	0.3	7	3.6	31	<0.1	12.4	4.1	164	1.24	1.3	1.6	1	14	<0.1	<0.1	<0.1	28
RTH14-180	683290	5448089	1452	VAN14002376	0.3	9.9	3.4	45	0.1	17.9	4.7	247	1.35	0.8	2.5	1.2	18	<0.1	<0.1	<0.1	30
RTH14-181	683239	5448101	1447	VAN14002376	0.5	9.6	4.2	39	<0.1	12.6	5.6	223	1.42	1.4	3.2	0.9	21	<0.1	<0.1	<0.1	28
RTH14-182	683189	5448096	1441	VAN14002376	0.5	14.6	4.1	52	0.1	19.5	5.5	365	1.48	2.6	2.5	1.5	18	<0.1	0.1	0.1	34
RTH14-183	683140	5448090	1440	VAN14002376	0.1	13.1	3.4	32	<0.1	16.5	2.8	208	1.18	0.8	2.5	0.8	22	<0.1	<0.1	<0.1	25
RTH14-184	682583	5448216	1380	VAN14002376	0.6	22.5	5.3	67	<0.1	26.9	8.1	320	2.12	2	2.2	1.8	26	<0.1	0.2	0.1	50
RTH14-185	682533	5448237	1375	VAN14002376	0.4	10	4.1	70	<0.1	24.6	5.5	378	1.43	1	2.5	1.1	24	<0.1	<0.1	0.1	32
RTH14-186	682485	5448258	1368	VAN14002376	1	93.5	7.7	90	1.5	91.5	10.4	555	2.74	3.6	3.7	1.9	81	0.4	0.3	0.2	53
RTH14-187	682435	5448253	1361	VAN14002376	0.4	15.6	4.9	73	0.1	22.5	6.1	227	1.65	1.6	2.9	1	36	0.1	0.1	0.1	34
RTH14-188	682385	5448232	1358	VAN14002376	0.9	12.5	5.5	63	<0.1	16	5.8	261	1.65	1.8	2.7	1.2	20	<0.1	<0.1	0.1	34
RTH14-189	682335	5448206	1355	VAN14002376	0.8	10.8	4.5	60	0.1	12.3	5.1	273	1.47	1.5	2	1.5	23	0.1	<0.1	0.1	33
RTH14-190	680331	5449392	1338	VAN14002376	0.4	59.2	4.6	49	<0.1	36.1	14.2	511	2.82	3.3	2.3	2.5	111	<0.1	0.2	<0.1	72
RTH14-191	680381	5449379	1338	VAN14002376	0.9	73.5	4.8	57	<0.1	36.8	15.8	459	2.9	3.8	3.4	2.2	67	<0.1	0.3	<0.1	80
RTH14-192	680433	5449356	1339	VAN14002376	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
RTH14-193	680482	5449347	1336	VAN14002376	0.6	39.4	6.5	63	<0.1	31.2	10.4	351	2.33	3.1	7.7	2.5	99	<0.1	0.1	0.1	54
RTH14-194	680529	5449344	1334	VAN14002376	0.8	48.4	6	57	<0.1	39.1	13.2	577	2.73	4.1	3.8	2.9	117	0.1	0.3	0.1	64
RTH14-195	680581	5449328	1337	VAN14002376	0.5	37.2	6.1	56	0.1	24.3	9.3	263	1.99	2	3.1	2.1	43	<0.1	<0.1	0.1	48
RTH14-196	680634	5449302	1338	VAN14002376	0.4	56.6	5.9	57	0.2	31.5	8.1	353	2.1	2.6	2.8	1.5	105	0.2	0.2	0.1	46

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
RTH14-197	680682	5449279	1339	VAN14002376	0.9	77.5	4.8	60	0.1	49.1	14.3	397	2.97	4.5	2.7	2.3	52	<0.1	0.4	<0.1	82
RTH14-198	680731	5449253	1336	VAN14002376	0.5	102.2	5.8	54	<0.1	46	15.7	522	3.23	5.3	4.9	3.1	109	<0.1	0.3	0.2	72
RTH14-199	680767	5449214	1328	VAN14002376	0.7	42.3	5.6	60	<0.1	36.6	10.9	350	2.63	3.3	2.6	2.4	73	0.1	0.2	0.1	62
RTH14-200	681415	5448030	1323	VAN14002376	0.3	41.1	6.6	51	0.2	29.8	7.9	306	1.98	3.2	<0.5	1	37	<0.1	0.1	0.1	42
RTH14-201	681408	5448078	1323	VAN14002376	0.4	23.9	8.5	86	0.1	27.8	10.4	490	2.17	2.1	2.1	1.4	39	0.1	<0.1	0.2	46
RTH14-202	681408	5448129	1322	VAN14002376	0.3	38.2	15.6	223	0.5	30.8	7.3	316	1.8	1.6	9.3	1	27	0.5	<0.1	0.1	40
RTH14-203	681405	5448182	1319	VAN14002376	0.7	40.3	9.3	134	0.7	28.6	9.9	255	2.2	4.3	4.8	1.8	30	0.7	0.1	0.1	49
RTH14-204	681401	5448231	1318	VAN14002376	0.6	24	12.8	70	0.3	27.4	13	352	2.18	3.7	2.5	1.3	26	0.1	0.1	0.5	49
RTH14-205	681389	5448280	1317	VAN14002376	0.9	55	25.7	102	0.2	38.5	14.3	536	3.14	7	2.4	1.7	41	0.3	0.3	0.1	76
RTH14-206	681375	5448331	1317	VAN14002376	0.7	59.7	9.2	65	0.2	53.6	14.2	569	2.83	5.3	5.8	1.7	67	0.2	0.3	0.1	70
RTH14-207	681356	5448380	1317	VAN14002376	0.7	67.8	5.9	60	0.2	43.7	15.3	624	2.95	4.3	2.8	2.2	61	0.2	0.3	<0.1	75
RTH14-208	681339	5448432	1314	VAN14002376	0.5	22	5.1	82	0.1	25	7	550	1.75	2.1	2.3	1.6	27	0.1	<0.1	0.1	42
RTH14-209	681333	5448478	1314	VAN14002376	0.6	41	4.8	67	<0.1	37.4	11.2	274	2.5	2.8	2.2	1.8	36	<0.1	0.1	0.1	61
JAT14-001	687366	5446818	1941	VAN14002377	0.6	9.5	6.7	42	<0.1	15.6	3.9	159	1.37	1	2	1.4	22	<0.1	<0.1	0.1	34
JAT14-002	687315	5446821	1937	VAN14002377	0.5	8.2	6.3	47	<0.1	9.7	3.7	289	1.26	1.2	1.7	1.4	25	<0.1	<0.1	0.1	31
JAT14-003	687260	5446822	1923	VAN14002377	0.5	7.7	6.4	41	<0.1	11.9	4.4	438	1.23	0.8	2	0.8	23	<0.1	<0.1	0.1	34
JAT14-004	687209	5446809	1928	VAN14002377	0.2	16.5	8.7	37	<0.1	25.4	5.8	194	1.73	0.5	<0.5	1.8	51	<0.1	<0.1	0.1	50
JAT14-005	687162	5446800	1937	VAN14002377	0.7	13	7.1	52	<0.1	13.9	4.8	173	1.59	1.4	2.6	1.5	15	<0.1	<0.1	0.1	42
JAT14-006	687110	5446794	1930	VAN14002377	0.6	12.2	7.9	54	<0.1	35.6	5	307	1.6	1.1	2.2	1.4	22	<0.1	<0.1	0.1	40
JAT14-007	687068	5446789	1933	VAN14002377	0.6	15.3	8.3	54	<0.1	14.4	5.4	270	1.65	1.4	2.2	1.8	19	<0.1	<0.1	0.1	41
JAT14-008	687016	5446800	1934	VAN14002377	0.7	13.1	7.4	57	<0.1	20.8	4.8	411	1.55	1.6	1.2	1.5	21	<0.1	<0.1	0.1	35
JAT14-009	686970	5446815	1930	VAN14002377	0.6	11.8	6.2	43	<0.1	11.7	5.2	184	1.65	1.7	0.8	2	17	<0.1	<0.1	<0.1	41
JAT14-010	686947	5446856	1919	VAN14002377	0.5	9.5	6.1	32	<0.1	8.6	3.6	193	1.44	1.4	<0.5	1.1	17	<0.1	<0.1	0.1	35
JAT14-011	686939	5446907	1913	VAN14002377	0.5	9.7	7.2	38	<0.1	9.4	4.1	497	1.53	1.3	<0.5	1.4	20	<0.1	<0.1	0.1	36
JAT14-012	687127	5447857	1912	VAN14002377	0.5	11	6.1	30	<0.1	16.5	4.8	132	1.62	1.2	2.8	1.3	20	<0.1	<0.1	0.1	46
JAT14-013	687116	5447908	1907	VAN14002377	0.5	8.3	6	28	<0.1	8.2	3.6	222	1.35	1.3	0.6	0.9	24	<0.1	<0.1	<0.1	36
JAT14-014	687116	5447958	1906	VAN14002377	0.5	6.7	5.2	24	<0.1	7.7	2.1	74	1.41	1.4	<0.5	0.9	12	<0.1	<0.1	0.1	34
JAT14-015	687111	5448008	1906	VAN14002377	0.4	5.5	5.6	21	<0.1	5.9	2.5	289	1.13	1.3	<0.5	0.8	13	<0.1	<0.1	0.1	28
JAT14-016	687108	5448062	1901	VAN14002377	0.4	12.1	6.3	32	<0.1	13.4	5.3	111	1.54	1.4	<0.5	1.8	23	<0.1	<0.1	<0.1	42
JAT14-017	687098	5448111	1895	VAN14002377	0.5	10.9	6.2	34	<0.1	11.1	4.7	127	1.48	1.3	<0.5	1.3	15	<0.1	<0.1	0.1	39
JAT14-018	687108	5448156	1893	VAN14002377	0.4	11.2	6.6	32	<0.1	14	4.9	233	1.4	1.3	<0.5	1	20	<0.1	<0.1	<0.1	40
JAT14-019	687131	5448203	1889	VAN14002377	0.5	7.5	5.7	24	<0.1	8.9	3.3	89	1.25	1.3	<0.5	1	10	<0.1	<0.1	0.1	35
JAT14-020	687133	5448201	1890	VAN14002377	0.3	17.8	7.1	33	<0.1	15.3	6.4	103	1.73	1.2	0.8	2.7	20	<0.1	<0.1	<0.1	54
JAT14-021	687147	5448222	1895	VAN14002377	0.5	9.7	8.2	32	<0.1	9.5	4.1	229	1.25	1.1	4	0.6	21	<0.1	<0.1	0.1	33
JAT14-022	687167	5448258	1894	VAN14002377	0.4	10	7.1	36	<0.1	18.2	4.8	157	1.35	1.2	0.9	1	31	<0.1	<0.1	<0.1	38
JAT14-023	687650	5448848	1841	VAN14002377	0.4	13.9	5.9	29	<0.1	17.6	6.1	104	1.77	1.2	0.5	1.4	22	<0.1	<0.1	<0.1	52
JAT14-024	687618	5448801	1846	VAN14002377	0.4	12.2	7.4	29	<0.1	9.3	4.3	160	1.48	1.6	<0.5	0.9	13	<0.1	<0.1	0.1	39
JAT14-025	684437	5450003	1525	VAN14002377	0.2	10.1	3.5	52	<0.1	18.8	3.9	220	1.3	0.8	<0.5	0.9	27	<0.1	<0.1	<0.1	35
JAT14-026	684390	5449977	1523	VAN14002377	0.4	17.5	4.2	65	<0.1	29.8	5.9	166	1.72	1.3	2.3	1.5	33	<0.1	<0.1	<0.1	53
JAT14-027	684348	5449957	1521	VAN14002377	0.2	12.8	4.1	58	0.1	26.4	5.9	190	1.6	1.5	1	1.2	34	<0.1	<0.1	<0.1	39
JAT14-028	684295	5449934	1509	VAN14002377	0.4	18.6	4.5	71	0.2	30.3	7	214	1.85	1.6	0.6	1.6	37	0.2	<0.1	<0.1	52
JAT14-029	684244	5449917	1511	VAN14002377	0.2	15.5	3.4	54	<0.1	17.5	4.8	237	1.41	1.5	1.7	1	35	<0.1	<0.1	<0.1	37
JAT14-030	684201	5449903	1511	VAN14002377	1.2	43.5	8.2	121	0.4	40.9	10.5	271	3.37	2.8	1.8	3.1	37	0.3	0.3	0.1	108
JAT14-031	684150	5449893	1511	VAN14002377	1.4	37.6	7.3	115	0.2	38.7	10.7	605	2.69	4.1	2.6	1.9	49	0.7	0.2	<0.1	75
JAT14-032	682777	5450118	1532	VAN14002377	0.4	36.5	6.6	79	0.2	46.7	10.9	503	2.67	1.8	2.3	2.4	59	0.1	0.2	0.1	49
JAT14-033	682729	5450144	1547	VAN14002377	0.3	23.1	4.4	64	<0.1	42.8	7.4	314	2.32	1.4	2.3	1.8	56	<0.1	0.1	<0.1	50
JAT14-034	682690	5450198	1537	VAN14002377	0.5	21.1	5.9	98	<0.1	27.1	7.6	492	2.04	2.1	1.5	1.6	48	0.2	0.1	<0.1	44
JAT14-035	682642	5450236	1540	VAN14002377	3	39.7	5.1	77	0.2	35	11.7	514	2.26	3.4	1.5	1.5	42	0.3	0.4	<0.1	50
JAT14-036	682609	5450272	1540	VAN14002377	2.5	21.4	4.9	125	0.2	25.3	7.4	967	1.88	2.6	0.7	1	34	0.8	0.3	<0.1	45

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
JAT14-037	682593	5450329	1548	VAN14002377	1.6	12.2	4.3	85	<0.1	21.8	5.5	646	1.58	1.6	0.6	0.9	30	0.2	0.1	<0.1	37
JAT14-038	682583	5450374	1553	VAN14002377	1.2	29.9	5.9	68	0.1	28	7.4	493	2	1.8	<0.5	1.5	31	0.3	0.3	0.1	42
JAT14-039	682594	5450425	1555	VAN14002377	1.8	23.8	5.2	66	0.1	25.5	8.9	318	2.09	3.5	1	1.4	29	0.3	0.3	<0.1	52
JAT14-040	682628	5450480	1553	VAN14002377	0.6	15.9	5.7	77	0.2	26	6.3	411	1.68	2.7	2.1	0.9	27	<0.1	<0.1	0.1	37
JAT14-041	682600	5450531	1547	VAN14002377	0.4	17	5.1	35	0.1	18.7	4.3	126	1.37	1.6	1.1	0.8	27	<0.1	<0.1	<0.1	34
JAT14-042	682555	5450548	1532	VAN14002377	1.7	28.3	5.3	50	0.4	23.2	7.2	208	1.89	3.6	2.1	1.1	31	0.2	0.2	<0.1	49
JAT14-043	682517	5450596	1535	VAN14002377	1.7	67.5	11.5	94	0.4	45	10.6	282	2.48	3.8	0.9	2.3	28	0.3	0.4	0.2	64
JAT14-044	682477	5450616	1525	VAN14002377	2.6	47.1	6.1	115	0.4	32.9	7.7	260	2.05	2.1	2.2	1.2	39	0.7	0.5	0.1	58
JAT14-045	682433	5450649	1525	VAN14002377	1.4	32.2	4.7	124	0.3	37.4	8.4	182	2.14	3	9.2	1.5	30	0.4	0.2	<0.1	60
JAT14-046	682391	5450666	1514	VAN14002377	0.8	23.8	5	85	0.2	28.7	7.7	176	2	2.1	26.7	1.1	30	0.4	0.2	<0.1	49
JAT14-047	682348	5450704	1509	VAN14002377	1.1	25.7	4.7	75	0.2	24.6	8.6	254	1.97	3	0.9	1.4	24	0.3	0.2	<0.1	54
JAT14-048	682305	5450719	1504	VAN14002377	2.1	38.9	7.4	75	0.4	35.7	10.3	658	2.24	7.4	1.4	1.5	19	0.3	0.4	0.1	51
JAT14-049	682265	5450759	1504	VAN14002377	0.3	16.3	4.9	39	0.2	18.7	5	126	1.58	1.4	0.7	0.8	21	<0.1	<0.1	<0.1	40
JAT14-050	682223	5450787	1504	VAN14002377	1	25.8	4.2	48	<0.1	24.5	8.1	205	2.11	2.7	5	1.3	31	0.1	0.2	<0.1	67
JAT14-051	682176	5450794	1499	VAN14002377	0.7	15.6	4.9	58	<0.1	22.2	6.9	158	1.83	2.2	<0.5	1.2	17	0.2	0.1	<0.1	46
JAT14-052	681743	5451026	1431	VAN14002377	0.6	14.1	3.2	32	<0.1	18.6	6.2	199	1.57	0.9	1.8	1	31	<0.1	<0.1	<0.1	49
JAT14-053	681695	5451044	1421	VAN14002377	0.6	37.1	5	50	<0.1	74.2	10.4	187	2.73	1.7	1	2.2	77	<0.1	<0.1	<0.1	76
JAT14-054	681655	5451073	1407	VAN14002377	0.7	38.1	3.7	43	<0.1	44.3	7.9	220	2.38	1.8	31.8	1.8	62	0.1	0.2	<0.1	67
JAT14-055	681618	5451116	1410	VAN14002377	0.9	20.3	3.8	42	0.1	26	6.3	226	1.65	1.2	1	1.2	37	0.1	<0.1	<0.1	47
JAT14-056	682177	5450037	1537	VAN14002377	7.3	32.1	7.8	190	0.2	29.6	9.1	741	2.41	9	1.5	1.5	49	2.7	1.3	0.1	45
JAT14-057	682125	5450050	1538	VAN14002377	8.8	47.6	6.8	198	0.5	31.4	8.5	546	2.52	16.2	3.6	0.4	69	2.7	2.1	<0.1	46
JAT14-058	682075	5450055	1535	VAN14002377	11.3	66.2	6.7	236	0.4	40.9	12	444	3.84	17.7	2.9	1.2	43	2.6	2.5	<0.1	67
JAT14-059	682020	5450055	1526	VAN14002377	9	99.5	11.1	176	0.6	51.4	16.7	684	4.3	16.3	3.8	1.8	45	1.7	2.5	0.1	84
JAT14-060	681979	5450019	1528	VAN14002377	5.5	68.3	5.7	220	0.4	41.1	13.6	449	3.64	10.6	3	0.8	44	2.6	1.2	<0.1	74
JAT14-061	681942	5449987	1524	VAN14002377	5.6	72.7	6.2	158	0.4	46.9	13.5	586	3.64	11.3	1.6	1.3	56	1.7	1.5	<0.1	71
JAT14-062	681894	5449969	1531	VAN14002377	3.7	64.9	6	133	0.3	42	16.8	598	3.4	10	1	1.3	48	1.4	0.8	<0.1	68
JAT14-063	681845	5449983	1529	VAN14002377	3.3	64.3	5.6	123	0.3	45.4	14.7	593	3.41	8.3	2.1	1.3	53	1.1	0.8	<0.1	71
JAT14-064	681801	5450014	1524	VAN14002377	4.2	100.8	5.5	116	0.2	56.3	19.1	620	4.15	10.8	2	2	47	0.7	1	<0.1	84
JAT14-065	681755	5450041	1522	VAN14002377	2.4	53.6	4.5	115	0.3	31.4	14.1	606	2.52	7.3	4.1	1.5	54	1.8	0.5	<0.1	53
JAT14-066	681335	5450256	1522	VAN14002377	2.3	136.8	8.5	113	0.2	52.3	28.2	541	4.36	34.5	28.1	3.1	22	0.3	1	0.1	81
JAT14-067	681330	5450316	1515	VAN14002377	1.2	72.3	7.9	124	0.2	37.4	21.7	809	3.12	22.4	1.4	2.2	21	0.4	0.6	0.1	55
JAT14-068	681318	5450363	1520	VAN14002377	1.2	55.6	6	92	0.2	25.8	13.3	646	2.32	24.2	1.8	1.9	19	0.3	0.5	<0.1	44
JAT14-069	681294	5450423	1529	VAN14002377	1.5	48.1	5.2	101	0.3	35.9	11.8	477	2.94	12	2.2	1.8	30	0.3	0.6	<0.1	63
JAT14-070	681245	5450447	1514	VAN14002377	1.1	45.4	5.1	121	0.3	24.1	12	574	2.5	5.9	1.2	1.5	22	0.4	0.4	<0.1	54
JAT14-071	681201	5450474	1518	VAN14002377	1.6	74.9	5.8	97	0.2	30.7	15.5	481	3.25	8.6	4.3	1.7	34	0.3	0.6	<0.1	73
JAT14-072	681160	5450509	1517	VAN14002377	1.4	101.5	7.1	83	0.2	29.4	17.8	540	4.14	13.9	2.6	1.8	41	0.3	0.7	0.1	98
JAT14-073	681116	5450541	1523	VAN14002377	1.4	52.2	6.3	107	0.3	28.7	14.9	859	2.89	9.4	1.5	1.1	40	0.3	0.4	0.1	50
JAT14-074	681081	5450577	1526	VAN14002377	1.6	112.3	9.6	109	0.1	30.4	27.3	1085	3.97	7.9	1.7	1.6	36	0.4	0.6	0.1	70
JAT14-075	681046	5450621	1521	VAN14002377	1.1	181.6	8.7	88	0.2	24.8	30.8	636	3.84	66.8	2.9	2.3	31	0.3	0.6	0.2	51
JAT14-076	681171	5450899	1490	VAN14002377	3	121	6	183	<0.1	140.4	45.4	713	5.29	31.8	<0.5	2.6	21	2.3	0.8	0.1	87
JAT14-077	681214	5450879	1489	VAN14002377	3.2	195.1	6	77	<0.1	104.6	38.6	1069	5.81	34.9	2.2	2.5	35	0.5	0.8	0.1	90
JAT14-078	681253	5450852	1491	VAN14002377	3.2	180.5	6.4	86	<0.1	101.5	39.5	1507	6.34	11.6	2.3	2.3	43	0.6	1.4	<0.1	84
JAT14-079	681316	5450822	1485	VAN14002377	30.4	396.9	26.5	75	0.4	87.4	50	3023	31.46	59.3	43.5	1	24	1.4	5.1	0.1	83
JAT14-080	681363	5450782	1479	VAN14002377	2.9	111.9	6.4	77	<0.1	125.5	40.3	930	7.34	7.3	1.8	2.3	28	0.4	0.7	0.1	59
JAT14-081	681408	5450753	1480	VAN14002377	2.3	124.3	7	64	0.1	105.5	37.1	619	5.37	2.7	4.1	2.7	24	0.4	0.4	0.1	60
JAT14-082	681464	5450766	1478	VAN14002377	7.9	183.5	4	1045	0.7	236.6	33.7	1757	8.43	27.6	4	2.8	37	19.7	1.5	<0.1	120
JAT14-083	681515	5450772	1469	VAN14002377	1.7	61.7	6.4	71	0.2	37.1	14.7	601	2.8	4.6	1	1.8	45	0.2	0.4	<0.1	74
JAT14-084	681556	5450778	1462	VAN14002377	0.9	38.5	3.7	46	<0.1	21.8	9.6	315	2.21	3.4	2.1	1.3	32	0.1	0.2	0.1	58
JAT14-085	681611	5450783	1464	VAN14002377	0.8	46.6	4.1	64	<0.1	31.5	10.7	294	2.54	3.3	3.9	1.5	35	0.2	0.3	<0.1	64

Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
JAT14-086	681624	5449895	1486	VAN14002377	0.7	66.7	5	89	0.3	26.4	10.2	487	2.27	4.9	2.6	1.7	32	0.3	0.2	<0.1	39
JAT14-087	681680	5449861	1478	VAN14002377	2	50	4.6	87	0.3	28.7	12.4	407	2.46	5.1	<0.5	1.5	24	0.3	0.3	<0.1	49
JAT14-088	681724	5449819	1486	VAN14002377	1.3	54.4	4.6	102	0.2	26.6	12.7	820	2.35	5.4	<0.5	1.4	44	0.5	0.3	<0.1	44
JAT14-089	681750	5449780	1482	VAN14002377	2.8	113.2	5.2	95	0.3	34.6	18.7	668	4.21	13.7	4.6	1.7	48	0.5	0.9	<0.1	80
JAT14-090	681777	5449737	1478	VAN14002377	2.2	111.1	5.1	75	0.1	39	17.5	653	4.11	16.5	14.1	1.4	44	0.2	0.8	<0.1	89
JAT14-091	681818	5449709	1470	VAN14002377	1.5	74.1	5.2	81	0.2	31.1	16.1	592	3	9.7	<0.5	0.6	40	0.6	0.5	<0.1	61
JAT14-092	681881	5449712	1469	VAN14002377	2.9	117	5.5	96	0.2	40	17.6	680	4.02	17.7	22.8	1.2	47	0.6	0.8	<0.1	79
JAT14-093	681927	5449727	1466	VAN14002377	4.2	105.4	7.3	125	0.2	43.8	19.1	922	4.28	11.3	3.3	1.8	54	0.8	1	<0.1	86
JAT14-094	681976	5449745	1465	VAN14002377	3.1	67.7	4.9	100	0.2	32.2	17.6	744	3.94	13.9	1.1	1	51	1	0.6	<0.1	82
JAT14-095	682020	5449772	1463	VAN14002377	8.1	109.2	7.3	192	0.5	46.3	21.5	999	4.37	14.4	4.4	1.7	56	2.1	1.7	<0.1	78
JAT14-096	682546	5449761	1432	VAN14002377	3.1	46.3	4.9	85	0.4	24.9	8.7	347	2.5	4.5	1.2	1.7	36	0.3	0.8	<0.1	57
JAT14-097	682601	5449755	1424	VAN14002377	5.3	48.2	6.3	143	0.3	31.3	9.4	333	2.48	5.5	1.6	2.2	41	0.8	0.9	0.1	48
JAT14-098	682650	5449734	1412	VAN14002377	3.8	45.9	6.8	165	0.3	34.7	10	468	2.45	7.4	1.7	1.9	36	1	0.6	0.1	48
JAT14-099	682686	5449695	1416	VAN14002377	2.4	23.7	5.3	158	0.2	24	7	454	1.79	3.5	0.6	1.4	29	0.7	0.3	0.1	38
JAT14-100	682726	5449688	1412	VAN14002377	2.7	34.2	5.1	174	0.2	31.5	8.1	397	1.85	3.6	<0.5	1.5	30	1	0.3	<0.1	40
JAT14-101	682748	5449730	1412	VAN14002377	3	39.4	6.5	129	0.2	30	9	330	2.48	5.2	0.6	1.7	40	0.5	0.6	0.1	50
JAT14-102	682802	5449730	1414	VAN14002377	1.7	13.7	3.8	201	0.1	14.9	4.5	526	1.44	2.1	<0.5	0.9	18	0.8	0.2	<0.1	31
JAT14-103	682849	5449737	1419	VAN14002377	4.4	43.1	7.2	201	0.4	25.5	8	1113	1.96	6.1	2.2	1.4	71	2.3	0.6	0.1	40
JAT14-104	682934	5449700	1399	VAN14002377	2	38.5	4.4	57	0.1	25.3	9	293	2.44	4.1	<0.5	1.9	43	0.3	0.4	<0.1	65
JAT14-105	682935	5449700	1401	VAN14002377	1.2	28.6	4.5	72	0.2	25.1	9.1	268	2.23	2.8	1.9	1.6	40	0.2	0.2	<0.1	55
JAT14-106	682989	5449693	1398	VAN14002377	2.1	44.5	4.6	59	0.1	30.4	9.7	429	2.39	4.5	5.5	1.7	58	0.2	0.5	<0.1	66
JAT14-107	683131	5449503	1377	VAN14002377	1.1	21.7	3.1	45	<0.1	17.8	5.3	178	1.91	3.8	2.3	1.4	27	<0.1	0.3	0.1	45
JAT14-108	683081	5449492	1367	VAN14002377	1.7	36.1	4.6	68	0.1	25.9	8.8	415	2.6	6.6	3.4	1.6	37	0.2	0.6	<0.1	57
JAT14-109	683014	5449488	1364	VAN14002377	0.8	31.7	4.8	64	0.2	22.2	9	459	2.17	3.8	2.7	1.5	38	0.2	0.3	<0.1	50
JAT14-110	682983	5449475	1357	VAN14002377	0.9	40.8	5.7	62	0.4	30.3	9.6	425	2.54	4.1	5.5	1.9	53	0.2	0.3	0.1	53
JAT14-111	682932	5449468	1346	VAN14002377	1.6	41.9	4.5	61	0.2	30.9	11.6	467	2.92	5.9	12.1	1.9	52	0.2	0.4	<0.1	77
JAT14-112	682891	5449452	1351	VAN14002377	1.5	29.9	4.3	52	0.1	20.7	7.5	400	2.17	3.4	2	1.4	38	0.3	0.4	0.2	51
JAT14-113	682854	5449392	1355	VAN14002377	2.4	43.2	4.1	69	<0.1	28.8	10	449	2.7	5.7	1.7	1.8	41	0.2	0.5	<0.1	64
JAT14-114	682821	5449362	1355	VAN14002377	5.8	57.9	5.1	127	0.1	36.5	11.9	641	3.38	8.8	2.6	1.9	51	0.9	1	<0.1	66
JAT14-115	682784	5449322	1357	VAN14002377	1.9	48.1	5.5	87	<0.1	39	11.7	559	3.61	8.2	3.4	1.8	29	0.2	0.4	<0.1	72
JAT14-116	682756	5449278	1359	VAN14002377	2.3	55.6	5	101	<0.1	42.1	10	329	3.71	8.8	3	2.1	39	0.3	0.6	<0.1	63
JAT14-117	682302	5448971	1379	VAN14002377	1.1	31.3	3.8	65	<0.1	25.7	8.1	283	2.58	3.9	1.4	1.4	35	<0.1	0.3	<0.1	54
JAT14-118	682252	5448941	1371	VAN14002377	1.8	47	4.7	90	<0.1	34.5	9.2	356	3.2	6.8	2.2	2	44	0.3	0.3	<0.1	67
JAT14-119	682206	5448923	1370	VAN14002377	1	38.1	5.4	83	0.2	36.1	7.9	214	2.63	4.2	<0.5	1.6	24	0.1	0.1	0.1	45
JAT14-120	682157	5448908	1364	VAN14002377	3.7	49.1	8	112	<0.1	24	20.1	1671	5.33	2.5	0.9	1.9	36	0.1	0.2	<0.1	103
JAT14-121	682109	5448890	1372	VAN14002377	1	42.2	6.3	107	0.1	44.5	10.9	308	3.26	5.3	1.5	2.1	25	0.1	0.4	0.1	58
JAT14-122	682061	5448876	1381	VAN14002377	1.1	43.6	5.6	81	0.1	36.1	10.9	413	2.99	4.8	4.8	1.8	26	0.1	0.2	<0.1	62
JAT14-123	682019	5448861	1380	VAN14002377	1.6	54.6	5	81	<0.1	41.1	13.1	412	3.54	7.9	2.1	2	40	0.1	0.3	<0.1	81
JAT14-124	681976	5448834	1384	VAN14002377	1.7	51.2	5	80	<0.1	36.3	12.5	437	3.24	6.5	2.4	2	40	0.1	0.3	<0.1	77
JAT14-125	681946	5448790	1390	VAN14002377	0.7	26.3	5.2	97	0.2	26.7	6.9	235	2.23	3.7	1.1	2.1	17	0.2	0.1	0.1	40
JAT14-126	681928	5448730	1376	VAN14002377	1.7	41	4.7	85	0.3	35.4	9.9	303	3.06	4.7	2	1.7	29	0.1	0.3	<0.1	69
JAT14-127	681901	5448694	1378	VAN14002377	4.8	79	5.8	167	0.1	43.4	12.2	398	4.75	14.6	5.7	2.5	43	0.6	0.7	0.1	97
JAT14-128	681878	5448651	1380	VAN14002377	1.4	18.5	7.5	86	<0.1	16.8	6.7	220	2.78	2.6	<0.5	1.8	25	<0.1	<0.1	<0.1	44
JAT14-129	681836	5448617	1381	VAN14002377	0.9	23.9	6	96	<0.1	23.4	7.6	291	2.53	2.4	3.8	1.3	23	<0.1	0.1	0.1	48
JAT14-130	681816	5448574	1378	VAN14002377	1.2	25.9	4.1	87	<0.1	22.5	8.2	269	2.28	2.7	<0.5	1.1	24	0.3	0.2	<0.1	47
JAT14-131	681820	5448523	1375	VAN14002377	3	32.7	4.2	112	<0.1	30	8.9	259	2.76	5.4	2.9	1.5	24	0.4	0.3	<0.1	56
JAT14-132	681855	5448476	1370	VAN14002377	2.4	62.3	4	94	0.2	33.7	10.8	366	3.15	6.8	0.9	1.6	33	0.3	0.3	<0.1	66
JAT14-133	684085	5447990	1516	VAN14002377	0.3	17.6	3.2	46	<0.1	34	7.6	273	1.95	1	<0.5	1.3	33	<0.1	<0.1	<0.1	51
JAT14-134	684037	5448002	1513	VAN14002377	0.4	18.3	2.6	38	<0.1	20.8	6.6	159	1.88	1.9	0.7	1.3	34	<0.1	0.1	<0.1	52



Sample	83Z10E	83Z10N	Elevation	Certificate	ppm Mo	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Ni	ppm Co	ppm Mn	% Fe	ppm As	ppb Au	ppm Th	ppm Sr	ppm Cd	ppm Sb	ppm Bi	ppm V
JAT14-135	684039	5448001	1508	VAN14002377	0.2	16.8	2.3	31	<0.1	21.3	5.4	155	1.53	1.3	2.5	1.5	33	<0.1	<0.1	<0.1	45
JAT14-136	683937	5448010	1499	VAN14002377	0.3	28.4	2.8	42	<0.1	37.3	7.5	203	2.17	2.2	2.4	1.9	40	<0.1	0.1	<0.1	58
JAT14-137	683885	5448000	1490	VAN14002377	0.3	13.5	3.6	39	<0.1	26.4	5.1	205	1.45	0.8	<0.5	0.9	25	<0.1	<0.1	<0.1	35
JAT14-138	683834	5448009	1491	VAN14002377	0.2	15.2	2.4	28	<0.1	20.3	4	118	1.37	1.1	0.5	1.2	29	<0.1	<0.1	<0.1	39
JAT14-139	683785	5448001	1489	VAN14002377	0.1	15.7	2.9	38	<0.1	19.9	4.1	150	1.55	0.8	<0.5	0.8	25	<0.1	<0.1	<0.1	40
JAT14-140	683684	5448006	1485	VAN14002377	0.3	42.4	3.6	58	<0.1	61.6	11.6	348	3.18	2.7	2.5	2.4	72	<0.1	0.1	<0.1	82
JAT14-141	683635	5447994	1482	VAN14002377	0.1	14.3	2.1	24	<0.1	12.8	3.9	123	1.28	1.2	0.8	1.3	27	<0.1	<0.1	<0.1	39
JAT14-142	683593	5447997	1477	VAN14002377	0.3	30.5	2.7	50	<0.1	12.3	7.3	183	2.44	2.1	0.7	1.6	51	<0.1	<0.1	<0.1	57
JAT14-143	683086	5448091	1433	VAN14002377	0.5	21.1	2.4	36	<0.1	18.6	5.9	172	1.92	2.2	0.8	1.6	26	<0.1	0.1	<0.1	48
JAT14-144	683035	5448089	1428	VAN14002377	0.5	17.4	3.2	58	<0.1	19.9	5.5	194	1.54	1.7	1.1	1.2	25	<0.1	0.1	<0.1	39
JAT14-145	682985	5448094	1427	VAN14002377	0.8	31.1	2.8	46	<0.1	24.6	6.8	204	2.22	3.5	1	1.6	27	<0.1	0.2	<0.1	60
JAT14-146	682930	5448119	1422	VAN14002377	1	49.7	3.3	69	<0.1	37.1	13.7	691	3.45	4.7	0.9	2.3	43	<0.1	0.1	<0.1	89
JAT14-147	682884	5448132	1416	VAN14002377	0.6	32.2	3.2	58	<0.1	30.6	9.3	314	2.57	5.3	<0.5	1.8	35	<0.1	0.1	<0.1	74
JAT14-148	682884	5448130	1418	VAN14002377	1.2	39.3	3.7	64	<0.1	48.2	15.2	581	3.28	9.1	0.6	2	51	<0.1	0.1	0.1	92
JAT14-149	682786	5448181	1406	VAN14002377	0.3	30.7	3.7	65	<0.1	21.8	9.5	506	2.7	2.7	1.1	2.1	51	<0.1	0.1	<0.1	75
JAT14-150	682734	5448201	1400	VAN14002377	0.7	19.9	2.6	40	<0.1	19.1	6	158	1.89	2.5	2.2	1.4	22	<0.1	0.2	<0.1	48
JAT14-151	682685	5448204	1396	VAN14002377	0.7	34.8	3.5	56	<0.1	32.6	7.8	297	2.52	3.2	2	1.9	30	<0.1	0.2	<0.1	57
JAT14-152	682638	5448198	1395	VAN14002377	0.7	34.3	4.4	68	0.1	37.3	9.6	392	2.64	2.7	1	1.6	29	<0.1	0.2	<0.1	59
JAT14-153	682584	5448214	1384	VAN14002377	0.7	32.4	3.5	57	<0.1	32.5	7.9	212	2.51	2.9	<0.5	1.7	24	<0.1	0.2	<0.1	58
JAT14-154	680808	5449180	1319	VAN14002377	0.5	62.4	4	60	0.1	45.6	14.8	394	3.41	3.6	2.8	1.8	68	0.1	0.2	<0.1	92
JAT14-155	680866	5449154	1319	VAN14002377	0.7	42.6	4.3	75	0.1	40.1	12.5	291	2.85	2.6	1.4	1.6	28	0.1	0.1	<0.1	62
JAT14-156	680916	5449160	1319	VAN14002377	0.6	62.5	5.4	65	0.1	41.5	13.4	502	3.47	3.2	1.8	2.4	63	0.1	0.2	<0.1	82
JAT14-157	680961	5449149	1321	VAN14002377	0.7	59.8	4.3	56	<0.1	34.5	13.1	515	3.28	3.2	8.8	1.8	56	<0.1	0.2	<0.1	87
JAT14-158	681013	5449131	1318	VAN14002377	0.5	46.5	9.4	50	<0.1	33.1	9.8	382	2.39	2.7	8	2.8	56	<0.1	0.1	<0.1	42
JAT14-159	681063	5449119	1310	VAN14002377	0.8	25.6	5	67	0.1	28.1	9.6	459	2.27	2.8	1	1.6	18	<0.1	<0.1	<0.1	49
JAT14-160	681115	5449106	1307	VAN14002377	0.5	48.9	4.3	58	<0.1	34.1	9.4	268	2.68	3.3	1.5	1.6	39	<0.1	0.1	<0.1	59
JAT14-161	681164	5449106	1307	VAN14002377	0.7	47.6	4.8	61	0.1	29.4	10.1	465	2.54	3	1.3	1.4	21	0.1	0.1	<0.1	57
JAT14-162	681216	5449106	1303	VAN14002377	1.3	41.2	5.4	73	0.1	34.7	10	643	2.71	2.4	1.5	1.4	25	<0.1	0.1	<0.1	59
JAT14-163	681263	5449072	1303	VAN14002377	0.9	57.4	3.4	64	<0.1	35.9	13	380	3.04	2.2	2.6	1.5	36	0.1	0.2	<0.1	85
JAT14-164	681327	5448536	1313	VAN14002377	0.7	54.8	3.4	49	<0.1	31.7	12.4	435	2.91	3.5	3.1	1.4	41	<0.1	0.2	<0.1	87
JAT14-165	681319	5448588	1312	VAN14002377	0.6	46.7	4.3	67	0.1	34.9	12	392	2.69	3.8	<0.5	1.7	27	<0.1	0.1	0.2	66
JAT14-166	681311	5448634	1311	VAN14002377	0.8	58	4.4	71	0.1	33.9	13.1	352	2.95	4.2	2	2.1	31	0.1	0.2	0.1	81
JAT14-167	681302	5448688	1308	VAN14002377	0.6	61.7	5	72	0.2	30.2	14.8	1229	2.84	4.2	1.1	1	35	0.2	0.2	<0.1	77
JAT14-168	681298	5448735	1315	VAN14002377	0.7	80.1	3.7	55	<0.1	37.1	15.7	502	3.4	5.5	1.8	1.3	39	<0.1	0.2	<0.1	96
JAT14-169	681298	5448792	1319	VAN14002377	0.3	16.1	4.3	41	<0.1	13.7	6.7	141	1.59	1.9	<0.5	0.5	28	<0.1	<0.1	<0.1	46
JAT14-170	681295	5448839	1304	VAN14002377	1	55.2	4.2	60	<0.1	36.3	13.7	352	3.28	4	1.6	1.9	46	<0.1	0.2	<0.1	93
JAT14-171	681296	5448882	1301	VAN14002377	0.8	120.2	5.1	57	<0.1	42.9	20	812	3.48	5.3	3.1	1.6	60	0.2	0.3	<0.1	97
JAT14-172	681276	5448934	1299	VAN14002377	0.7	50.8	4.1	60	0.1	26.3	10	473	2.26	7.7	1.6	1.2	36	0.2	0.2	<0.1	60
JAT14-173	681245	5448982	1294	VAN14002377	0.6	37.9	4.7	61	<0.1	23.9	9.1	391	2.23	2.5	<0.5	1.8	21	0.1	0.1	<0.1	56
JAT14-174	681232	5449041	1292	VAN14002377	0.5	22.9	4	61	<0.1	16.6	6	180	1.66	1.5	<0.5	1.3	13	<0.1	<0.1	<0.1	41

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
RTH14-001	0.07	0.079	3	12	0.08	55	0.073	1	1.59	0.013	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
RTH14-002	0.08	0.088	5	12	0.13	103	0.099	2	2.39	0.02	0.04	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
RTH14-003	0.1	0.068	4	13	0.1	58	0.084	3	1.52	0.017	0.04	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
RTH14-004	0.27	0.035	7	16	0.16	134	0.093	3	1.26	0.022	0.05	<0.1	0.02	1.6	0.1	<0.05	6	<0.5	<0.2
RTH14-005	0.07	0.086	3	8	0.06	45	0.086	3	1.65	0.017	0.03	<0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2
RTH14-006	0.1	0.039	3	9	0.08	67	0.072	<1	1.06	0.017	0.04	<0.1	0.04	0.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-007	0.08	0.109	3	9	0.07	45	0.085	1	1.95	0.021	0.03	<0.1	0.04	1.3	<0.1	0.08	7	<0.5	<0.2
RTH14-008	0.14	0.055	4	12	0.11	108	0.096	<1	1.85	0.021	0.04	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-009	0.1	0.077	5	17	0.13	94	0.101	<1	2.04	0.019	0.04	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
RTH14-010	0.08	0.097	3	8	0.08	61	0.101	<1	1.6	0.026	0.03	0.1	0.02	1.3	<0.1	<0.05	6	0.5	<0.2
RTH14-011	0.07	0.07	3	13	0.11	53	0.095	<1	2.28	0.019	0.03	<0.1	0.05	1.9	<0.1	<0.05	7	<0.5	<0.2
RTH14-012	0.07	0.08	3	13	0.11	75	0.094	<1	1.94	0.019	0.04	<0.1	0.01	1.5	<0.1	<0.05	8	<0.5	<0.2
RTH14-013	0.06	0.108	3	6	0.04	51	0.094	2	2.67	0.021	0.02	0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
RTH14-014	0.05	0.091	3	7	0.06	51	0.085	1	1.86	0.022	0.03	<0.1	0.06	1.3	<0.1	<0.05	7	0.6	<0.2
RTH14-015	0.06	0.114	3	5	0.04	37	0.077	2	2.18	0.018	0.03	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
RTH14-016	0.05	0.104	3	7	0.06	48	0.097	<1	1.99	0.022	0.03	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
RTH14-017	0.06	0.105	3	6	0.05	34	0.093	3	1.8	0.021	0.02	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
RTH14-018	0.05	0.071	2	5	0.03	28	0.071	2	1.43	0.019	0.02	<0.1	0.05	0.9	<0.1	<0.05	6	0.7	<0.2
RTH14-019	0.06	0.093	4	8	0.06	42	0.086	1	2.12	0.02	0.02	<0.1	0.05	1.6	<0.1	<0.05	6	0.6	<0.2
RTH14-020	0.1	0.11	4	9	0.07	71	0.082	2	2.19	0.02	0.03	0.1	0.06	1.5	<0.1	<0.05	7	<0.5	<0.2
RTH14-021	0.12	0.081	4	13	0.11	64	0.086	2	1.77	0.02	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	0.6	<0.2
RTH14-022	0.17	0.068	8	24	0.2	208	0.1	1	2.14	0.022	0.05	<0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-023	0.12	0.09	4	11	0.09	76	0.08	1	1.79	0.022	0.04	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-024	0.09	0.072	5	18	0.12	78	0.09	<1	1.75	0.02	0.03	<0.1	0.02	2	<0.1	<0.05	6	0.7	<0.2
RTH14-025	0.25	0.102	6	26	0.19	166	0.093	1	2.54	0.019	0.07	<0.1	0.05	2.3	<0.1	<0.05	7	<0.5	<0.2
RTH14-026	0.08	0.093	4	12	0.09	84	0.094	1	2.3	0.023	0.03	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
RTH14-027	0.14	0.041	6	24	0.16	174	0.094	1	2.06	0.021	0.03	<0.1	0.03	2	<0.1	<0.05	6	<0.5	<0.2
RTH14-028	0.08	0.036	3	8	0.06	88	0.064	2	0.99	0.019	0.03	<0.1	0.02	0.8	<0.1	<0.05	5	1	<0.2
RTH14-029	0.11	0.083	4	14	0.14	116	0.087	3	1.84	0.026	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-030	0.17	0.037	9	28	0.24	374	0.102	<1	2.64	0.018	0.06	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
RTH14-031	0.12	0.072	4	15	0.13	82	0.074	<1	1.5	0.02	0.04	<0.1	0.07	1.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-032	0.49	0.062	15	23	0.34	240	0.098	<1	2.01	0.022	0.06	<0.1	0.04	3.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-033	0.26	0.072	9	32	0.23	159	0.122	2	2.24	0.026	0.06	<0.1	0.04	4	<0.1	<0.05	6	0.6	<0.2
RTH14-034	0.13	0.095	6	26	0.25	157	0.111	<1	3.01	0.023	0.05	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	<0.2
RTH14-035	0.19	0.075	7	16	0.23	117	0.101	<1	2.83	0.021	0.05	<0.1	0.02	2.3	<0.1	<0.05	8	<0.5	<0.2
RTH14-036	0.15	0.065	8	31	0.27	285	0.105	<1	3.46	0.021	0.05	<0.1	0.03	2.9	<0.1	<0.05	8	<0.5	<0.2
RTH14-037	0.13	0.103	6	23	0.27	158	0.112	2	3.67	0.023	0.04	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
RTH14-038	0.64	0.064	13	26	0.54	221	0.13	1	1.87	0.041	0.05	<0.1	<0.01	5	0.1	<0.05	5	<0.5	<0.2
RTH14-039	0.16	0.113	8	26	0.31	197	0.128	<1	3.83	0.028	0.05	<0.1	0.03	2.9	<0.1	<0.05	9	<0.5	<0.2
RTH14-040	0.16	0.07	7	26	0.26	216	0.13	1	3.63	0.027	0.05	<0.1	0.03	2.5	<0.1	<0.05	9	<0.5	<0.2
RTH14-041	0.12	0.099	9	18	0.18	141	0.121	1	3.18	0.025	0.04	<0.1	0.05	2.8	<0.1	<0.05	9	<0.5	<0.2
RTH14-042	0.12	0.079	6	23	0.22	149	0.117	<1	3.42	0.022	0.05	<0.1	0.04	2.4	<0.1	<0.05	9	<0.5	<0.2
RTH14-043	0.39	0.067	11	40	0.57	181	0.108	3	1.86	0.028	0.32	<0.1	0.05	4.9	0.2	<0.05	6	<0.5	<0.2
RTH14-044	0.45	0.046	19	79	0.6	129	0.109	2	1.91	0.054	0.11	<0.1	0.02	10	0.1	<0.05	6	<0.5	<0.2
RTH14-045	0.29	0.079	14	44	0.42	180	0.101	<1	1.68	0.028	0.28	<0.1	0.01	5.4	0.1	<0.05	5	<0.5	<0.2
RTH14-046	0.51	0.104	47	62	1.06	216	0.073	1	2.24	0.019	0.5	<0.1	0.08	9.9	0.3	<0.05	8	2.6	<0.2
RTH14-047	0.24	0.034	5	25	0.24	172	0.085	2	1.44	0.027	0.12	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-048	0.49	0.078	18	57	0.61	157	0.111	2	1.92	0.036	0.14	<0.1	0.03	7	0.1	<0.05	5	<0.5	<0.2
RTH14-049	0.48	0.036	48	61	0.4	174	0.098	2	2.26	0.031	0.1	<0.1	0.04	10.8	0.1	<0.05	6	1.1	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
RTH14-050	0.32	0.042	4	28	0.23	184	0.082	1	1.06	0.031	0.08	<0.1	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
RTH14-051	0.25	0.111	6	27	0.21	228	0.089	2	1.44	0.027	0.1	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
RTH14-052	0.26	0.045	5	24	0.2	164	0.083	2	1.15	0.028	0.09	<0.1	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
RTH14-053	0.28	0.036	5	22	0.19	164	0.082	3	1.15	0.027	0.09	<0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-054	0.26	0.042	4	27	0.28	168	0.087	2	1.39	0.028	0.15	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
RTH14-055	0.24	0.064	7	26	0.26	223	0.081	3	1.51	0.025	0.14	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-056	0.26	0.105	10	36	0.3	227	0.08	2	2.22	0.023	0.13	<0.1	0.03	4.9	<0.1	<0.05	6	0.5	<0.2
RTH14-057	0.29	0.047	9	30	0.4	165	0.108	<1	1.37	0.017	0.17	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-058	0.18	0.081	4	21	0.23	195	0.073	1	1.45	0.024	0.07	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-059	0.22	0.05	7	18	0.25	246	0.066	2	1.48	0.026	0.11	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-060	0.58	0.092	11	21	0.27	310	0.077	6	1.8	0.025	0.2	<0.1	0.05	3.9	0.1	<0.05	5	0.5	<0.2
RTH14-061	0.41	0.05	12	19	0.25	288	0.077	3	1.96	0.029	0.14	<0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
RTH14-062	0.36	0.028	14	29	0.36	155	0.078	2	1.79	0.029	0.18	<0.1	0.02	4.6	0.2	<0.05	6	<0.5	<0.2
RTH14-063	0.45	0.042	13	48	0.68	180	0.153	1	1.64	0.022	0.05	<0.1	0.03	6.1	<0.1	<0.05	5	0.9	<0.2
RTH14-064	0.69	0.022	12	38	0.35	193	0.13	2	3.45	0.031	0.05	<0.1	0.04	5.6	<0.1	<0.05	8	<0.5	<0.2
RTH14-065	0.26	0.095	7	38	0.43	238	0.132	<1	2.29	0.023	0.05	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-066	0.37	0.028	8	34	0.36	312	0.127	<1	2.3	0.033	0.04	<0.1	0.02	4.1	<0.1	<0.05	6	0.7	<0.2
RTH14-067	0.21	0.181	5	32	0.3	146	0.115	<1	2.09	0.021	0.05	<0.1	0.04	3	<0.1	<0.05	6	<0.5	<0.2
RTH14-068	0.42	0.032	7	58	0.61	174	0.166	<1	1.78	0.024	0.06	<0.1	0.02	5.8	<0.1	<0.05	5	<0.5	<0.2
RTH14-069	0.26	0.03	3	26	0.26	93	0.097	2	1.54	0.024	0.03	<0.1	0.04	2.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-070	0.79	0.033	11	51	0.59	231	0.143	1	2.19	0.027	0.05	<0.1	0.04	6.6	<0.1	<0.05	6	0.9	<0.2
RTH14-071	0.36	0.094	6	40	0.61	174	0.134	<1	2	0.02	0.05	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-072	0.27	0.049	5	44	0.4	161	0.126	2	2.03	0.025	0.09	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-073	0.3	0.04	6	56	0.42	152	0.107	2	1.25	0.036	0.09	<0.1	<0.01	3.7	<0.1	<0.05	4	0.6	<0.2
RTH14-074	0.35	0.017	6	61	0.49	119	0.12	1	1.24	0.044	0.07	<0.1	0.01	4.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-075	0.35	0.058	10	67	0.53	158	0.13	2	2.44	0.022	0.14	<0.1	0.03	6.6	0.1	<0.05	6	0.6	<0.2
RTH14-076	0.39	0.028	11	63	0.54	111	0.126	2	1.89	0.032	0.11	<0.1	0.02	6.3	<0.1	<0.05	5	<0.5	<0.2
RTH14-077	0.26	0.012	5	31	0.27	81	0.1	1	1.23	0.034	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-078	0.16	0.112	3	36	0.27	127	0.096	1	1.83	0.023	0.08	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-079	0.33	0.065	22	19	0.34	228	0.017	1	1.23	0.015	0.1	<0.1	0.03	3.4	0.1	<0.05	3	2.6	<0.2
RTH14-080	0.29	0.046	5	19	0.23	234	0.069	2	1.47	0.021	0.08	<0.1	0.04	2.2	<0.1	<0.05	4	0.6	<0.2
RTH14-081	0.23	0.163	6	18	0.23	295	0.065	1	1.56	0.022	0.06	<0.1	<0.01	2.6	<0.1	<0.05	4	0.5	<0.2
RTH14-082	0.36	0.067	10	29	0.41	201	0.097	<1	1.81	0.019	0.13	<0.1	0.03	4.5	<0.1	<0.05	5	1.5	<0.2
RTH14-083	0.4	0.092	10	21	0.37	178	0.078	2	1.79	0.019	0.1	<0.1	0.02	3.8	<0.1	<0.05	5	1.4	<0.2
RTH14-084	0.41	0.092	7	18	0.34	284	0.067	2	1.55	0.019	0.11	<0.1	0.02	2.4	<0.1	<0.05	5	0.7	<0.2
RTH14-085	0.36	0.146	9	24	0.45	324	0.068	3	1.73	0.017	0.1	<0.1	0.03	3.3	<0.1	<0.05	5	1.5	<0.2
RTH14-086	0.41	0.076	10	18	0.42	230	0.071	3	1.72	0.02	0.1	<0.1	0.03	3.3	<0.1	<0.05	5	1.3	<0.2
RTH14-087	0.36	0.164	8	20	0.48	348	0.065	2	1.68	0.017	0.09	<0.1	0.03	2.7	<0.1	<0.05	5	1.5	<0.2
RTH14-088	0.39	0.099	10	26	0.57	279	0.072	2	1.79	0.014	0.12	<0.1	0.03	3.5	<0.1	<0.05	5	1.1	<0.2
RTH14-089	0.38	0.19	6	25	0.49	387	0.076	3	1.6	0.019	0.11	<0.1	0.03	2.7	<0.1	<0.05	4	0.9	<0.2
RTH14-090	0.52	0.138	11	34	0.65	287	0.069	2	2.1	0.014	0.11	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-091	1.08	0.083	12	32	0.71	211	0.105	3	2.15	0.023	0.05	0.1	0.03	4.2	<0.1	<0.05	5	1.7	<0.2
RTH14-092	0.72	0.107	12	38	0.82	363	0.093	2	2.27	0.015	0.07	<0.1	0.04	4.4	<0.1	<0.05	5	0.8	<0.2
RTH14-093	0.98	0.138	11	22	0.58	225	0.084	4	2.45	0.02	0.07	<0.1	0.03	2.8	<0.1	<0.05	7	1	<0.2
RTH14-094	0.58	0.125	5	20	0.5	370	0.104	2	1.88	0.017	0.07	<0.1	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-095	0.49	0.087	8	31	0.66	333	0.156	3	2.96	0.017	0.09	<0.1	0.01	4.5	<0.1	<0.05	8	<0.5	<0.2
RTH14-096	0.33	0.088	7	27	0.51	242	0.114	2	2.26	0.02	0.06	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-097	0.41	0.181	7	32	0.65	378	0.112	3	2.21	0.02	0.1	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-098	0.54	0.165	7	26	0.54	415	0.094	2	1.85	0.02	0.1	<0.1	0.04	3.6	<0.1	<0.05	5	1.1	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
RTH14-099	0.48	0.081	11	22	0.55	279	0.131	3	3.19	0.025	0.14	<0.1	0.03	4.3	<0.1	<0.05	8	0.7	<0.2
RTH14-100	0.39	0.078	6	29	0.61	208	0.129	2	2.34	0.023	0.09	<0.1	0.02	3.1	<0.1	<0.05	6	0.7	<0.2
RTH14-101	0.48	0.098	8	12	0.47	183	0.11	2	2.24	0.028	0.07	0.1	0.04	2.9	<0.1	<0.05	6	0.7	<0.2
RTH14-102	0.63	0.098	12	62	1.45	172	0.128	2	2.74	0.013	0.06	<0.1	0.03	10.5	<0.1	<0.05	6	0.9	<0.2
RTH14-103	0.4	0.051	7	21	0.49	392	0.126	2	2.6	0.023	0.1	<0.1	0.03	3.6	0.1	<0.05	7	<0.5	<0.2
RTH14-104	0.32	0.065	8	13	0.34	214	0.122	3	2.79	0.033	0.06	0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
RTH14-105	0.33	0.109	16	20	0.77	255	0.108	1	2.75	0.012	0.05	0.1	0.04	10.4	<0.1	<0.05	6	0.8	<0.2
RTH14-106	0.18	0.147	7	18	0.39	210	0.115	2	2.63	0.024	0.04	0.1	0.02	3.2	<0.1	<0.05	7	0.5	<0.2
RTH14-107	0.14	0.129	3	9	0.16	172	0.116	2	1.9	0.026	0.03	0.1	0.07	1.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-108	0.2	0.117	11	77	0.75	137	0.019	1	1.77	0.01	0.05	0.1	0.17	8.3	0.3	<0.05	5	3.8	0.2
RTH14-109	0.15	0.089	6	10	0.32	171	0.141	2	2.33	0.032	0.03	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-110	0.52	0.054	10	67	0.71	197	0.185	2	1.59	0.028	0.05	<0.1	0.03	7.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-111	0.36	0.075	8	56	0.57	194	0.149	2	1.76	0.029	0.06	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-112	0.58	0.048	10	58	0.63	198	0.174	1	1.89	0.027	0.06	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-113	0.53	0.043	9	63	0.73	187	0.199	1	1.76	0.028	0.05	<0.1	0.02	6.4	<0.1	<0.05	4	<0.5	<0.2
RTH14-114	0.56	0.074	8	37	0.7	228	0.169	2	2.25	0.022	0.09	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-115	0.63	0.086	17	90	1.41	229	0.227	2	3.05	0.01	0.07	<0.1	0.02	12.2	<0.1	<0.05	7	0.8	<0.2
RTH14-116	0.59	0.107	11	33	0.49	222	0.144	2	2.78	0.024	0.07	<0.1	0.04	4.2	<0.1	<0.05	7	<0.5	<0.2
RTH14-117	0.48	0.074	9	38	0.54	298	0.156	2	2.73	0.02	0.07	<0.1	0.03	4	<0.1	<0.05	7	<0.5	<0.2
RTH14-118	0.33	0.111	7	37	0.6	283	0.153	1	2.32	0.021	0.07	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
RTH14-119	0.29	0.091	7	26	0.43	217	0.131	2	2.07	0.023	0.05	<0.1	0.04	2.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-120	0.3	0.142	8	32	0.48	249	0.148	2	2.56	0.023	0.07	0.1	0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
RTH14-121	0.33	0.169	7	33	0.49	233	0.15	2	2.29	0.022	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
RTH14-122	0.44	0.087	9	38	0.57	191	0.169	2	2.3	0.019	0.12	0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-123	0.3	0.221	8	27	0.38	285	0.123	2	2.13	0.021	0.09	<0.1	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-124	0.38	0.082	16	53	0.69	206	0.156	<1	2.08	0.013	0.08	<0.1	0.02	6.6	0.1	<0.05	5	2.1	<0.2
RTH14-125	0.53	0.102	15	58	1	204	0.167	2	1.93	0.01	0.09	<0.1	0.05	7.5	0.1	<0.05	5	3.7	<0.2
RTH14-126	0.47	0.1	13	45	0.88	215	0.12	3	2.18	0.013	0.17	<0.1	0.02	5.9	<0.1	<0.05	6	1.8	<0.2
RTH14-127	0.84	0.144	10	31	0.52	225	0.062	5	1.59	0.011	0.18	<0.1	0.03	3.2	<0.1	0.06	4	1.9	<0.2
RTH14-128	0.72	0.133	11	32	0.54	241	0.069	4	1.72	0.013	0.21	<0.1	0.03	3.6	<0.1	<0.05	5	1.3	<0.2
RTH14-129	0.65	0.103	12	35	0.64	272	0.089	3	1.94	0.012	0.19	<0.1	0.04	5.2	<0.1	<0.05	5	1.7	<0.2
RTH14-130	0.27	0.133	8	25	0.39	207	0.089	2	1.71	0.014	0.14	<0.1	0.03	3.5	<0.1	<0.05	5	1.6	<0.2
RTH14-131	0.25	0.185	9	24	0.35	341	0.086	2	1.82	0.02	0.09	<0.1	0.03	3.9	<0.1	<0.05	5	1	<0.2
RTH14-132	0.34	0.082	7	27	0.33	215	0.094	2	1.54	0.02	0.13	<0.1	<0.01	3.4	<0.1	<0.05	5	0.5	<0.2
RTH14-133	0.23	0.093	7	24	0.31	186	0.085	1	1.46	0.018	0.11	<0.1	0.02	3	<0.1	<0.05	4	<0.5	<0.2
RTH14-134	0.27	0.026	9	28	0.3	126	0.102	<1	1.73	0.032	0.1	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-135	0.33	0.034	18	44	0.46	122	0.117	1	1.99	0.031	0.1	<0.1	0.05	7	<0.1	<0.05	6	<0.5	<0.2
RTH14-136	0.23	0.042	8	25	0.31	111	0.081	1	1.32	0.028	0.09	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-137	0.32	0.021	8	37	0.43	131	0.118	<1	1.57	0.033	0.09	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-138	0.4	0.064	11	47	0.55	119	0.109	<1	1.34	0.031	0.09	<0.1	0.04	5.4	<0.1	<0.05	4	0.5	<0.2
RTH14-139	0.23	0.033	5	26	0.29	91	0.094	1	1.24	0.03	0.12	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-140	0.14	0.151	5	31	0.33	179	0.101	<1	2.22	0.026	0.05	<0.1	0.02	3	<0.1	<0.05	6	<0.5	<0.2
RTH14-141	0.2	0.114	5	27	0.31	135	0.089	<1	1.71	0.023	0.06	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-142	0.21	0.032	7	30	0.34	130	0.093	3	1.46	0.023	0.07	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
RTH14-143	0.37	0.087	6	25	0.31	173	0.07	3	1.57	0.021	0.09	<0.1	0.03	2.5	<0.1	<0.05	5	0.7	<0.2
RTH14-144	0.25	0.017	5	23	0.35	92	0.086	2	1.31	0.032	0.06	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-145	0.45	0.033	15	30	0.49	135	0.084	3	1.74	0.028	0.09	<0.1	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-146	0.17	0.041	6	19	0.29	126	0.08	<1	1.5	0.021	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-147	0.25	0.028	6	19	0.33	109	0.087	2	1.2	0.024	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
RTH14-148	0.29	0.027	9	34	0.72	128	0.124	2	1.72	0.018	0.1	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-149	0.3	0.035	9	32	0.64	118	0.128	<1	1.3	0.013	0.1	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
RTH14-150	0.37	0.065	14	42	0.75	128	0.083	<1	1.66	0.014	0.15	<0.1	0.03	5.2	0.1	<0.05	5	<0.5	<0.2
RTH14-151	0.21	0.167	10	32	0.57	158	0.08	2	2.14	0.017	0.09	<0.1	0.03	3.2	0.1	<0.05	7	<0.5	<0.2
RTH14-152	0.4	0.055	13	33	0.71	118	0.112	3	1.32	0.014	0.09	<0.1	0.02	4.2	<0.1	<0.05	4	0.7	<0.2
RTH14-153	0.21	0.033	9	19	0.3	98	0.07	<1	1.23	0.02	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-154	0.25	0.14	7	21	0.33	128	0.09	1	1.93	0.021	0.06	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-155	0.2	0.029	3	17	0.25	130	0.081	1	1.47	0.028	0.05	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-156	0.34	0.04	4	17	0.24	134	0.073	2	1.52	0.022	0.05	<0.1	0.05	2	<0.1	<0.05	5	<0.5	<0.2
RTH14-157	0.38	0.06	15	34	0.6	100	0.089	2	1.38	0.012	0.11	<0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-158	0.37	0.08	5	18	0.32	169	0.084	3	1.33	0.016	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
RTH14-159	0.43	0.076	4	18	0.48	142	0.069	3	1.74	0.016	0.07	<0.1	0.03	2.6	<0.1	0.05	6	<0.5	<0.2
RTH14-160	0.56	0.043	26	35	0.51	172	0.095	2	2.05	0.021	0.11	<0.1	0.05	6.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-161	0.22	0.062	4	20	0.32	94	0.083	2	1.48	0.017	0.05	<0.1	0.01	2	<0.1	<0.05	5	<0.5	<0.2
RTH14-162	0.33	0.104	6	26	0.41	125	0.107	2	1.84	0.016	0.08	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-163	0.2	0.069	6	29	0.49	140	0.101	<1	1.89	0.018	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-164	0.15	0.026	6	19	0.18	83	0.066	1	1.18	0.028	0.03	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-165	0.12	0.043	6	23	0.19	104	0.078	1	1.64	0.023	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-166	0.27	0.027	13	35	0.38	121	0.078	1	1.52	0.025	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
RTH14-167	0.17	0.018	6	27	0.26	94	0.079	2	1.49	0.025	0.04	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
RTH14-168	0.27	0.025	12	41	0.49	111	0.092	<1	1.33	0.024	0.06	<0.1	0.02	3	<0.1	<0.05	4	<0.5	<0.2
RTH14-169	0.21	0.021	6	32	0.35	93	0.092	2	1.56	0.028	0.04	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-170	0.26	0.027	8	36	0.39	109	0.088	<1	2	0.032	0.06	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-171	0.21	0.02	6	36	0.42	82	0.093	<1	1.24	0.023	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-172	0.12	0.052	5	23	0.25	116	0.074	2	1.35	0.023	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-173	0.13	0.02	4	27	0.27	89	0.087	<1	1.37	0.019	0.04	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-174	0.21	0.096	5	21	0.32	86	0.077	<1	1.39	0.017	0.06	<0.1	0.02	2	<0.1	<0.05	5	<0.5	<0.2
RTH14-175	0.15	0.022	6	31	0.31	79	0.081	1	1.12	0.019	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-176	0.07	0.162	3	15	0.17	100	0.076	<1	1.56	0.017	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
RTH14-177	0.19	0.022	7	27	0.32	112	0.076	<1	1.22	0.025	0.06	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
RTH14-178	0.26	0.021	12	28	0.37	98	0.082	2	1.1	0.023	0.07	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-179	0.14	0.095	3	15	0.18	89	0.064	<1	1.11	0.018	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-180	0.17	0.068	4	19	0.26	133	0.071	<1	1.2	0.02	0.08	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
RTH14-181	0.19	0.069	3	16	0.25	122	0.074	2	1.21	0.018	0.07	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
RTH14-182	0.16	0.142	5	19	0.25	127	0.071	2	1.38	0.019	0.06	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-183	0.17	0.021	6	14	0.18	87	0.059	<1	1.1	0.027	0.06	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-184	0.18	0.061	7	36	0.54	134	0.098	<1	1.71	0.017	0.11	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-185	0.21	0.078	4	23	0.32	136	0.073	<1	1.39	0.024	0.08	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-186	0.73	0.087	84	45	0.67	245	0.081	5	2.74	0.018	0.24	0.1	0.12	8.8	<0.1	<0.05	7	2.4	<0.2
RTH14-187	0.38	0.09	7	21	0.38	171	0.075	2	1.63	0.021	0.08	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-188	0.21	0.106	4	20	0.31	127	0.083	2	1.8	0.02	0.08	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
RTH14-189	0.25	0.189	6	15	0.27	140	0.078	1	1.72	0.022	0.08	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-190	0.85	0.089	15	61	1.13	142	0.132	2	2.1	0.019	0.07	<0.1	0.03	5.9	<0.1	<0.05	5	0.6	<0.2
RTH14-191	0.61	0.093	12	62	1.04	83	0.14	1	1.91	0.022	0.05	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-192	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
RTH14-193	0.53	0.08	10	41	0.71	186	0.079	1	2.3	0.026	0.08	<0.1	0.02	4.9	<0.1	<0.05	7	0.6	<0.2
RTH14-194	0.81	0.07	14	55	0.94	192	0.093	4	2.04	0.028	0.09	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-195	0.34	0.037	9	38	0.51	157	0.112	<1	2.4	0.027	0.04	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-196	0.87	0.045	9	34	0.63	135	0.097	3	2.15	0.031	0.07	<0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2



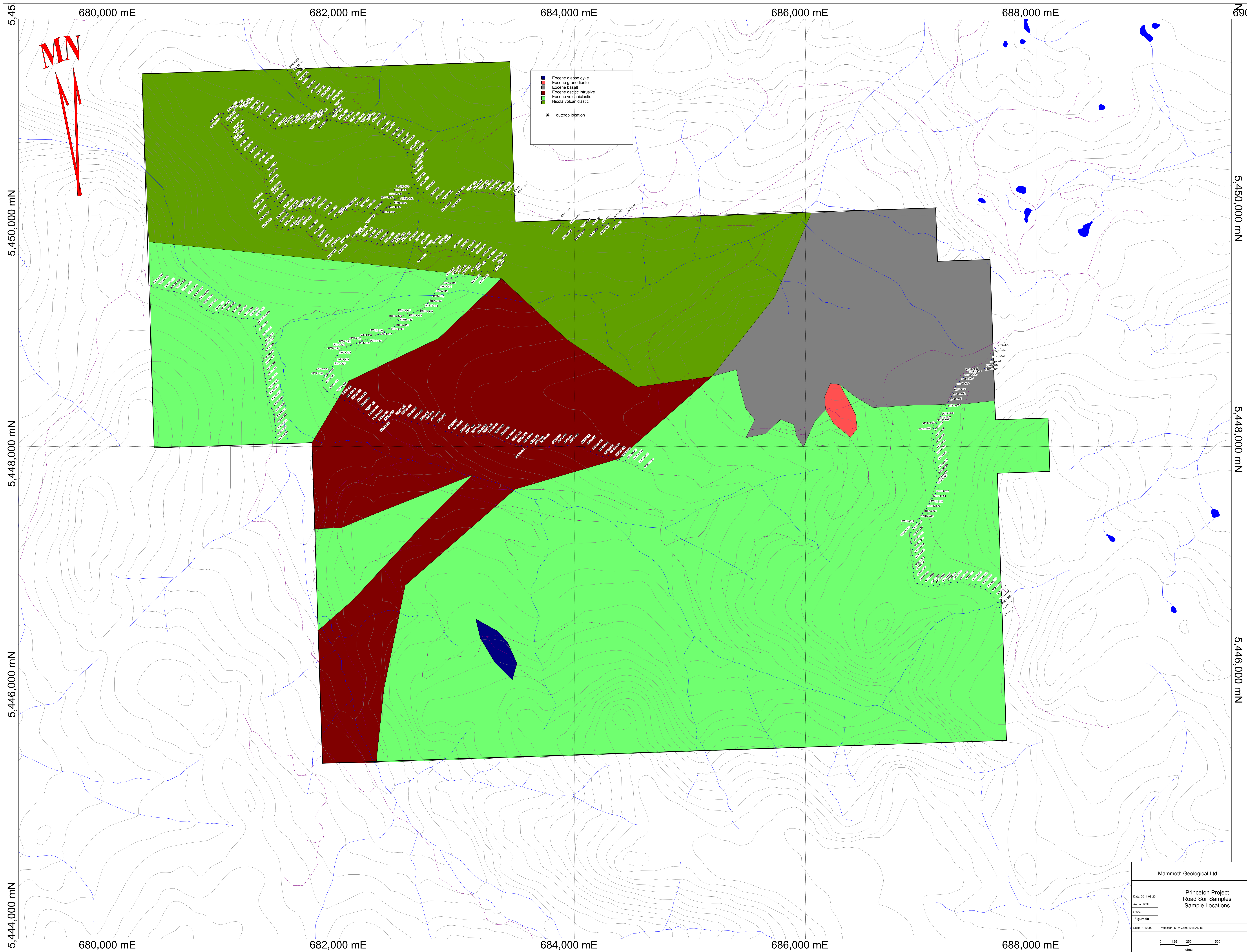
Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
RTH14-197	0.55	0.031	12	64	0.98	112	0.152	1	1.99	0.021	0.08	<0.1	0.02	6.6	<0.1	<0.05	5	0.7	<0.2
RTH14-198	0.87	0.082	15	70	1.13	176	0.105	2	1.99	0.03	0.07	<0.1	0.02	7	0.1	<0.05	5	<0.5	<0.2
RTH14-199	0.62	0.07	11	49	0.79	140	0.103	2	2.04	0.022	0.11	<0.1	0.01	5.2	0.1	<0.05	6	<0.5	<0.2
RTH14-200	0.28	0.079	9	29	0.43	173	0.086	<1	2.14	0.025	0.07	<0.1	0.02	3	<0.1	<0.05	6	0.5	<0.2
RTH14-201	0.24	0.218	6	36	0.5	186	0.093	<1	2.06	0.021	0.08	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
RTH14-202	0.3	0.048	7	27	0.39	176	0.068	1	1.77	0.027	0.04	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
RTH14-203	0.23	0.168	8	35	0.52	138	0.091	1	2.19	0.023	0.06	<0.1	0.04	4.2	<0.1	<0.05	6	0.5	<0.2
RTH14-204	0.19	0.137	6	31	0.55	141	0.08	1	1.84	0.018	0.1	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
RTH14-205	0.36	0.087	11	54	0.97	112	0.116	<1	1.83	0.015	0.12	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-206	0.59	0.079	14	59	0.89	159	0.095	3	1.97	0.024	0.19	<0.1	0.03	5.7	<0.1	<0.05	6	0.6	<0.2
RTH14-207	0.67	0.056	11	60	0.91	148	0.115	2	2.2	0.027	0.13	<0.1	0.03	7.1	<0.1	<0.05	7	0.6	<0.2
RTH14-208	0.3	0.208	5	34	0.4	121	0.097	<1	2.18	0.025	0.05	<0.1	0.03	3	<0.1	<0.05	6	<0.5	<0.2
RTH14-209	0.28	0.094	6	44	0.67	127	0.099	<1	2.44	0.021	0.07	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
JAT14-001	0.11	0.075	5	10	0.1	89	0.108	2	1.94	0.021	0.04	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
JAT14-002	0.14	0.088	4	8	0.09	111	0.114	2	2.13	0.027	0.04	<0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2
JAT14-003	0.13	0.08	4	12	0.1	97	0.086	1	1.56	0.019	0.03	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
JAT14-004	0.17	0.07	7	20	0.17	184	0.113	<1	2.53	0.019	0.04	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2
JAT14-005	0.07	0.067	5	10	0.1	99	0.117	<1	2.76	0.018	0.03	<0.1	0.04	1.9	<0.1	<0.05	9	<0.5	<0.2
JAT14-006	0.11	0.076	5	11	0.11	153	0.132	1	2.85	0.02	0.05	<0.1	0.03	1.9	<0.1	<0.05	10	<0.5	<0.2
JAT14-007	0.1	0.072	6	13	0.13	151	0.138	1	3.31	0.02	0.04	<0.1	0.04	2.1	<0.1	<0.05	10	<0.5	<0.2
JAT14-008	0.12	0.1	6	12	0.12	149	0.107	2	3.13	0.019	0.06	0.1	0.08	2.3	0.1	<0.05	9	<0.5	<0.2
JAT14-009	0.1	0.092	7	14	0.13	102	0.117	2	2.87	0.019	0.03	<0.1	0.05	2.8	<0.1	<0.05	8	<0.5	<0.2
JAT14-010	0.1	0.075	4	10	0.08	79	0.092	2	2.24	0.018	0.03	<0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2
JAT14-011	0.14	0.09	4	9	0.1	108	0.108	<1	3	0.021	0.03	<0.1	0.06	2	<0.1	<0.05	9	<0.5	<0.2
JAT14-012	0.1	0.101	4	21	0.13	89	0.097	<1	2.4	0.019	0.04	<0.1	0.05	2.3	<0.1	<0.05	7	<0.5	<0.2
JAT14-013	0.12	0.131	4	13	0.08	74	0.085	2	1.86	0.018	0.03	<0.1	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2
JAT14-014	0.06	0.124	3	8	0.06	42	0.079	1	2.11	0.018	0.02	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5	<0.2
JAT14-015	0.07	0.104	3	8	0.05	71	0.075	1	1.74	0.018	0.02	<0.1	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2
JAT14-016	0.09	0.084	7	18	0.15	96	0.094	<1	2.4	0.02	0.03	<0.1	0.04	2.6	<0.1	<0.05	7	<0.5	<0.2
JAT14-017	0.06	0.1	5	16	0.11	68	0.089	1	2.42	0.018	0.03	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
JAT14-018	0.12	0.088	5	17	0.12	90	0.084	1	2.21	0.02	0.03	<0.1	0.05	2	<0.1	<0.05	7	<0.5	<0.2
JAT14-019	0.07	0.089	3	11	0.07	51	0.086	1	2.2	0.017	0.03	<0.1	0.05	1.7	<0.1	<0.05	7	<0.5	<0.2
JAT14-020	0.09	0.054	7	29	0.18	178	0.105	<1	2.77	0.015	0.04	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
JAT14-021	0.09	0.085	4	14	0.1	96	0.074	1	2.12	0.015	0.04	<0.1	0.05	1.5	<0.1	<0.05	7	<0.5	<0.2
JAT14-022	0.15	0.087	5	17	0.13	125	0.084	1	1.94	0.017	0.05	<0.1	0.07	1.8	<0.1	<0.05	7	<0.5	<0.2
JAT14-023	0.12	0.095	6	23	0.16	111	0.096	1	2.44	0.018	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
JAT14-024	0.07	0.088	4	14	0.13	73	0.083	<1	2.53	0.017	0.04	<0.1	0.05	1.9	<0.1	<0.05	8	<0.5	<0.2
JAT14-025	0.19	0.022	5	24	0.21	114	0.072	1	1.19	0.023	0.07	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
JAT14-026	0.21	0.052	8	35	0.44	167	0.096	<1	1.59	0.027	0.19	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
JAT14-027	0.23	0.095	7	29	0.23	179	0.078	1	1.6	0.024	0.08	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
JAT14-028	0.27	0.138	7	32	0.43	212	0.09	1	1.72	0.022	0.22	<0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2
JAT14-029	0.23	0.029	7	29	0.3	116	0.074	1	1.32	0.032	0.21	<0.1	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2
JAT14-030	0.2	0.06	17	58	0.94	236	0.131	1	2.55	0.017	0.77	<0.1	0.02	7.5	0.3	<0.05	8	0.5	<0.2
JAT14-031	0.38	0.092	14	46	0.57	197	0.098	2	2.03	0.024	0.33	<0.1	0.03	5.7	0.2	<0.05	6	0.6	<0.2
JAT14-032	0.43	0.031	20	37	0.47	163	0.078	2	1.87	0.024	0.24	<0.1	0.02	5.5	0.2	<0.05	5	<0.5	<0.2
JAT14-033	0.39	0.027	13	35	0.37	145	0.08	2	1.76	0.033	0.13	<0.1	0.02	4.7	0.2	<0.05	5	<0.5	<0.2
JAT14-034	0.31	0.039	8	29	0.32	158	0.077	1	1.75	0.02	0.1	<0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
JAT14-035	0.37	0.04	10	40	0.4	184	0.083	2	1.74	0.019	0.09	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
JAT14-036	0.32	0.046	6	20	0.32	234	0.086	2	1.49	0.017	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
JAT14-037	0.29	0.058	4	24	0.25	190	0.077	2	1.38	0.017	0.11	<0.1	0.01	2	<0.1	<0.05	4	<0.5	<0.2
JAT14-038	0.21	0.045	9	26	0.29	128	0.078	2	1.56	0.018	0.11	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
JAT14-039	0.21	0.083	6	34	0.37	161	0.084	1	1.99	0.015	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
JAT14-040	0.16	0.11	4	21	0.21	191	0.07	1	2.6	0.018	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
JAT14-041	0.18	0.032	3	24	0.23	110	0.072	2	1.51	0.024	0.05	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
JAT14-042	0.23	0.077	7	29	0.29	135	0.086	1	1.81	0.017	0.04	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
JAT14-043	0.25	0.08	13	39	0.43	187	0.1	2	2.53	0.014	0.07	<0.1	0.03	3.6	0.1	<0.05	6	0.5	<0.2
JAT14-044	0.36	0.02	12	37	0.38	146	0.087	<1	1.48	0.023	0.04	<0.1	0.03	3.3	<0.1	<0.05	4	0.8	<0.2
JAT14-045	0.24	0.09	6	35	0.41	162	0.102	1	2.02	0.018	0.05	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
JAT14-046	0.32	0.04	4	32	0.3	160	0.097	2	1.96	0.023	0.04	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
JAT14-047	0.2	0.111	6	33	0.36	191	0.1	2	1.89	0.017	0.04	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
JAT14-048	0.17	0.093	8	30	0.34	182	0.081	1	1.96	0.015	0.04	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
JAT14-049	0.26	0.023	5	22	0.22	127	0.082	<1	1.72	0.023	0.03	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
JAT14-050	0.24	0.06	5	43	0.44	146	0.102	<1	1.8	0.018	0.06	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
JAT14-051	0.16	0.117	4	25	0.23	110	0.095	1	1.85	0.016	0.05	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
JAT14-052	0.21	0.071	5	36	0.22	124	0.086	<1	1.29	0.03	0.06	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
JAT14-053	0.46	0.047	12	84	1.22	346	0.112	2	2.28	0.031	0.13	<0.1	0.02	7.9	<0.1	<0.05	6	<0.5	<0.2
JAT14-054	0.39	0.037	13	62	0.68	145	0.118	1	1.64	0.035	0.08	<0.1	0.02	6.2	<0.1	<0.05	4	<0.5	<0.2
JAT14-055	0.27	0.035	5	42	0.37	113	0.098	2	1.46	0.029	0.1	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
JAT14-056	0.38	0.05	13	30	0.45	234	0.071	2	1.86	0.01	0.17	<0.1	0.03	3.8	0.1	<0.05	5	2.4	<0.2
JAT14-057	0.61	0.14	12	29	0.48	310	0.037	3	1.6	0.01	0.16	<0.1	0.04	2.4	<0.1	0.05	4	3.1	<0.2
JAT14-058	0.36	0.095	15	32	0.88	166	0.049	1	1.91	0.008	0.07	<0.1	0.02	4.7	0.2	<0.05	5	3.6	<0.2
JAT14-059	0.62	0.088	16	61	1	188	0.098	2	2.64	0.008	0.14	<0.1	0.09	7.4	0.1	<0.05	6	2.2	<0.2
JAT14-060	0.35	0.124	11	41	0.79	241	0.103	1	2.58	0.009	0.08	<0.1	0.01	4	<0.1	<0.05	6	1.7	<0.2
JAT14-061	0.44	0.088	14	50	0.82	194	0.101	1	2.21	0.01	0.07	<0.1	0.03	6.1	<0.1	<0.05	5	1.8	<0.2
JAT14-062	0.36	0.094	11	49	0.87	220	0.128	1	2.76	0.01	0.11	<0.1	0.02	5.1	<0.1	<0.05	6	1.2	<0.2
JAT14-063	0.43	0.08	13	57	0.75	242	0.128	2	2.52	0.011	0.09	<0.1	0.02	6.4	<0.1	<0.05	6	0.8	<0.2
JAT14-064	0.47	0.062	14	79	1.15	283	0.157	1	2.39	0.008	0.08	<0.1	0.02	8.3	<0.1	<0.05	5	1	<0.2
JAT14-065	0.66	0.131	8	40	0.61	290	0.108	3	1.76	0.012	0.11	<0.1	0.01	4	<0.1	<0.05	4	0.7	<0.2
JAT14-066	0.24	0.15	11	48	0.95	307	0.138	2	3.22	0.01	0.09	0.1	0.02	5.9	<0.1	<0.05	7	0.7	<0.2
JAT14-067	0.29	0.262	9	27	0.53	231	0.118	2	3.3	0.019	0.05	0.1	0.04	3.9	<0.1	<0.05	8	<0.5	<0.2
JAT14-068	0.27	0.107	9	23	0.43	230	0.1	2	2.24	0.02	0.05	<0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
JAT14-069	0.3	0.086	8	41	0.79	511	0.118	1	2.2	0.015	0.09	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
JAT14-070	0.22	0.138	5	23	0.48	293	0.099	2	2.17	0.018	0.07	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
JAT14-071	0.37	0.1	7	39	0.82	283	0.132	1	2.31	0.012	0.07	<0.1	<0.01	4.3	<0.1	<0.05	6	0.7	<0.2
JAT14-072	0.42	0.066	14	46	0.98	161	0.188	2	2.83	0.01	0.09	<0.1	0.02	7.5	<0.1	<0.05	8	<0.5	<0.2
JAT14-073	0.36	0.12	11	28	0.55	216	0.11	1	2.5	0.017	0.09	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
JAT14-074	0.35	0.111	13	41	0.77	243	0.136	1	2.97	0.013	0.07	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
JAT14-075	0.39	0.158	13	16	0.51	147	0.127	2	3.4	0.024	0.06	0.1	0.03	4.4	<0.1	<0.05	7	0.5	<0.2
JAT14-076	0.25	0.078	10	99	1.46	577	0.142	1	2.87	0.015	0.03	0.1	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
JAT14-077	0.38	0.063	17	92	1.44	306	0.141	<1	2.42	0.012	0.04	0.1	0.02	11.8	<0.1	<0.05	5	1.2	<0.2
JAT14-078	1.2	0.055	14	108	1.69	1011	0.133	1	2.79	0.015	0.05	<0.1	0.04	13.5	<0.1	<0.05	6	<0.5	<0.2
JAT14-079	0.48	0.089	10	49	0.33	2482	0.052	<1	0.89	0.003	0.01	<0.1	0.12	6.3	0.2	<0.05	2	0.9	<0.2
JAT14-080	0.4	0.075	21	62	1.07	889	0.12	1	1.87	0.012	0.03	0.1	0.03	7.4	<0.1	<0.05	4	<0.5	<0.2
JAT14-081	0.39	0.098	12	42	0.71	204	0.157	<1	2.78	0.024	0.03	<0.1	0.04	6	<0.1	<0.05	6	<0.5	<0.2
JAT14-082	0.47	0.064	23	200	2.65	237	0.176	<1	3.46	0.007	0.03	<0.1	0.06	19	<0.1	<0.05	7	1.3	<0.2
JAT14-083	0.55	0.062	13	63	0.71	247	0.164	1	2.2	0.02	0.05	<0.1	0.03	6.1	<0.1	<0.05	6	0.8	<0.2
JAT14-084	0.31	0.074	7	41	0.56	154	0.141	<1	1.72	0.017	0.04	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
JAT14-085	0.32	0.067	7	50	0.69	163	0.134	<1	1.89	0.015	0.06	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
JAT14-086	0.58	0.031	9	23	0.38	126	0.122	3	2.08	0.031	0.04	<0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
JAT14-087	0.25	0.076	7	31	0.57	229	0.129	<1	1.98	0.018	0.06	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
JAT14-088	0.5	0.158	8	30	0.53	350	0.102	1	1.87	0.017	0.11	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
JAT14-089	0.69	0.066	14	57	0.95	227	0.17	<1	2.39	0.014	0.08	<0.1	0.02	7.4	<0.1	<0.05	6	0.9	<0.2
JAT14-090	0.56	0.055	11	68	1.03	213	0.184	<1	2.39	0.011	0.08	<0.1	0.01	7.6	<0.1	<0.05	6	0.7	<0.2
JAT14-091	0.5	0.13	11	40	0.68	223	0.105	<1	2.33	0.015	0.08	<0.1	0.02	3.8	<0.1	0.07	6	<0.5	<0.2
JAT14-092	0.61	0.089	15	60	1.08	231	0.15	1	2.47	0.011	0.07	<0.1	0.02	6.9	<0.1	<0.05	6	0.8	<0.2
JAT14-093	0.54	0.079	15	58	1	203	0.168	<1	2.54	0.01	0.14	<0.1	0.03	8.7	<0.1	<0.05	6	<0.5	<0.2
JAT14-094	0.48	0.093	13	49	0.92	251	0.146	1	2.31	0.011	0.15	<0.1	0.02	5.5	<0.1	<0.05	6	0.7	<0.2
JAT14-095	0.53	0.104	14	49	1.11	209	0.142	1	2.36	0.009	0.15	<0.1	0.07	7.1	<0.1	<0.05	5	1.7	<0.2
JAT14-096	0.28	0.035	10	42	0.57	114	0.104	<1	1.39	0.019	0.06	<0.1	0.04	4.6	<0.1	<0.05	4	0.9	<0.2
JAT14-097	0.26	0.051	12	30	0.45	235	0.095	<1	1.8	0.019	0.09	<0.1	0.02	4	<0.1	<0.05	5	0.9	<0.2
JAT14-098	0.26	0.168	9	30	0.51	240	0.096	1	2.2	0.019	0.08	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
JAT14-099	0.21	0.109	6	22	0.35	230	0.093	<1	1.93	0.021	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
JAT14-100	0.21	0.114	8	21	0.33	247	0.084	<1	1.92	0.022	0.05	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
JAT14-101	0.27	0.056	8	31	0.52	196	0.112	1	2.22	0.016	0.07	<0.1	0.02	3	<0.1	<0.05	6	0.6	<0.2
JAT14-102	0.11	0.117	4	13	0.21	203	0.073	<1	1.33	0.021	0.05	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
JAT14-103	0.52	0.149	8	23	0.33	421	0.076	1	1.71	0.018	0.07	<0.1	0.06	2.9	<0.1	<0.05	5	<0.5	<0.2
JAT14-104	0.37	0.032	10	49	0.55	118	0.121	1	1.42	0.024	0.1	<0.1	0.02	5.1	<0.1	<0.05	4	0.7	<0.2
JAT14-105	0.33	0.091	8	41	0.52	116	0.103	<1	1.76	0.02	0.14	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
JAT14-106	0.44	0.073	13	53	0.61	158	0.098	<1	1.38	0.031	0.06	<0.1	0.02	5.1	<0.1	<0.05	4	<0.5	<0.2
JAT14-107	0.26	0.04	7	34	0.38	93	0.071	<1	0.89	0.022	0.05	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
JAT14-108	0.34	0.044	11	43	0.56	123	0.08	1	1.25	0.025	0.1	<0.1	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2
JAT14-109	0.36	0.027	10	38	0.45	135	0.086	1	1.47	0.03	0.09	<0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
JAT14-110	0.42	0.039	13	45	0.58	145	0.087	1	1.81	0.036	0.1	<0.1	0.04	6.4	0.1	<0.05	5	<0.5	<0.2
JAT14-111	0.51	0.061	13	60	0.66	130	0.095	1	1.5	0.034	0.08	<0.1	0.03	6.9	<0.1	<0.05	4	<0.5	<0.2
JAT14-112	0.4	0.033	10	37	0.38	130	0.097	1	1.28	0.03	0.06	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
JAT14-113	0.41	0.08	13	44	0.72	132	0.088	<1	1.42	0.022	0.1	<0.1	0.02	5.8	<0.1	<0.05	4	0.8	<0.2
JAT14-114	0.48	0.08	11	41	0.77	171	0.077	1	1.48	0.024	0.1	<0.1	0.04	5.6	<0.1	<0.05	4	1.5	<0.2
JAT14-115	0.3	0.049	12	49	0.85	132	0.089	1	1.56	0.011	0.2	<0.1	0.01	5.8	0.2	<0.05	5	0.7	<0.2
JAT14-116	0.37	0.049	14	46	0.85	123	0.085	<1	1.51	0.011	0.16	<0.1	0.02	6.1	0.2	<0.05	5	0.9	<0.2
JAT14-117	0.35	0.037	8	40	0.71	109	0.113	<1	1.38	0.018	0.09	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
JAT14-118	0.46	0.073	13	49	0.86	123	0.089	1	1.74	0.016	0.12	<0.1	0.02	6.5	<0.1	<0.05	5	0.6	<0.2
JAT14-119	0.24	0.183	8	34	0.46	172	0.081	2	2.56	0.022	0.12	<0.1	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2
JAT14-120	0.61	0.134	14	28	0.81	231	0.04	3	1.42	0.014	0.23	<0.1	0.02	17.5	0.3	<0.05	6	<0.5	<0.2
JAT14-121	0.23	0.093	10	42	0.7	142	0.116	1	2.32	0.018	0.14	<0.1	0.02	4.5	0.1	<0.05	7	<0.5	<0.2
JAT14-122	0.28	0.08	11	45	0.83	134	0.118	<1	2.05	0.016	0.17	<0.1	0.02	4.8	0.1	<0.05	6	<0.5	<0.2
JAT14-123	0.4	0.05	13	58	1.06	122	0.108	<1	2.1	0.014	0.13	<0.1	0.01	7	<0.1	<0.05	6	<0.5	<0.2
JAT14-124	0.4	0.061	13	51	0.89	113	0.093	<1	1.82	0.012	0.11	<0.1	<0.01	6.2	<0.1	<0.05	6	0.6	<0.2
JAT14-125	0.16	0.164	9	27	0.43	132	0.101	1	2.52	0.022	0.08	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
JAT14-126	0.3	0.032	11	43	0.7	127	0.121	<1	1.57	0.014	0.13	<0.1	0.01	5.4	<0.1	<0.05	5	0.6	<0.2
JAT14-127	0.51	0.062	19	57	0.72	181	0.047	2	2.5	0.014	0.1	<0.1	0.05	12.8	<0.1	<0.05	7	2.2	<0.2
JAT14-128	0.2	0.07	11	21	0.41	157	0.041	1	1.95	0.014	0.05	<0.1	0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
JAT14-129	0.24	0.044	9	32	0.55	138	0.086	<1	2.35	0.016	0.06	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
JAT14-130	0.27	0.09	5	36	0.52	138	0.102	1	1.94	0.015	0.06	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
JAT14-131	0.27	0.051	9	37	0.57	105	0.081	<1	1.43	0.014	0.09	<0.1	0.01	4.1	<0.1	<0.05	5	1	<0.2
JAT14-132	0.4	0.056	10	50	0.76	91	0.126	1	1.64	0.013	0.11	<0.1	0.02	6	<0.1	<0.05	5	0.6	<0.2
JAT14-133	0.23	0.036	9	52	0.46	100	0.087	<1	1.19	0.024	0.09	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
JAT14-134	0.26	0.05	9	39	0.46	101	0.069	<1	1	0.013	0.08	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2

Sample	% Ca	% P	ppm La	ppm Cr	% Mg	ppm Ba	% Ti	ppm B	% Al	% Na	% K	ppm W	ppm Hg	ppm Sc	ppm Tl	% S	ppm Ga	ppm Se	ppm Te
JAT14-135	0.3	0.051	10	40	0.5	77	0.075	<1	1	0.021	0.09	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
JAT14-136	0.4	0.066	17	62	0.71	114	0.082	<1	1.34	0.029	0.12	<0.1	<0.01	5.7	<0.1	<0.05	4	<0.5	<0.2
JAT14-137	0.21	0.054	7	34	0.3	109	0.072	<1	1.35	0.023	0.08	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
JAT14-138	0.25	0.022	7	41	0.41	82	0.079	<1	0.97	0.025	0.08	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
JAT14-139	0.2	0.016	5	28	0.28	94	0.083	<1	1.29	0.031	0.06	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
JAT14-140	0.59	0.091	20	84	0.96	197	0.084	<1	2.11	0.031	0.18	<0.1	0.01	8.6	0.1	<0.05	6	<0.5	<0.2
JAT14-141	0.31	0.048	8	29	0.42	85	0.071	<1	0.91	0.021	0.06	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
JAT14-142	0.48	0.086	11	25	0.75	154	0.046	<1	1.51	0.019	0.12	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2
JAT14-143	0.28	0.036	8	35	0.44	88	0.068	1	1.04	0.019	0.07	<0.1	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2
JAT14-144	0.24	0.109	5	23	0.32	155	0.079	1	1.46	0.019	0.08	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
JAT14-145	0.31	0.05	11	40	0.53	105	0.08	1	1.15	0.015	0.11	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
JAT14-146	0.6	0.103	15	45	0.93	210	0.057	<1	2.45	0.024	0.18	<0.1	0.02	9.7	0.1	<0.05	7	<0.5	<0.2
JAT14-147	0.44	0.068	14	46	0.67	138	0.078	1	1.65	0.021	0.15	<0.1	0.01	6.3	<0.1	<0.05	6	<0.5	<0.2
JAT14-148	0.64	0.083	16	64	0.99	159	0.061	1	2.03	0.025	0.19	<0.1	0.01	8.8	0.2	<0.05	7	<0.5	<0.2
JAT14-149	0.6	0.07	13	38	0.85	191	0.033	<1	2.04	0.015	0.15	<0.1	0.02	8.6	<0.1	<0.05	7	<0.5	<0.2
JAT14-150	0.24	0.039	8	33	0.44	84	0.077	<1	1	0.013	0.09	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
JAT14-151	0.37	0.08	14	47	0.71	113	0.08	1	1.4	0.017	0.18	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
JAT14-152	0.27	0.068	13	46	0.69	131	0.088	1	1.55	0.017	0.16	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
JAT14-153	0.22	0.052	11	44	0.54	97	0.072	<1	1.28	0.013	0.13	<0.1	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
JAT14-154	0.98	0.036	10	80	1.21	120	0.028	1	2.54	0.029	0.06	<0.1	0.03	9	<0.1	<0.05	8	<0.5	<0.2
JAT14-155	0.4	0.066	5	48	0.69	141	0.088	<1	2.32	0.016	0.07	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
JAT14-156	0.82	0.038	9	72	1.01	149	0.085	1	2.6	0.026	0.08	<0.1	0.04	9.3	<0.1	<0.05	7	<0.5	<0.2
JAT14-157	0.9	0.053	11	59	0.97	113	0.072	1	2.29	0.022	0.07	<0.1	0.03	9	<0.1	<0.05	6	<0.5	<0.2
JAT14-158	0.97	0.056	19	17	0.39	77	0.002	<1	1.9	0.009	0.04	<0.1	0.15	8.4	0.1	<0.05	5	<0.5	<0.2
JAT14-159	0.24	0.213	4	31	0.36	130	0.072	<1	2.89	0.02	0.06	<0.1	0.03	3.6	<0.1	<0.05	7	<0.5	<0.2
JAT14-160	0.47	0.057	10	44	0.67	136	0.078	<1	2.39	0.016	0.07	<0.1	0.02	5	<0.1	<0.05	6	<0.5	<0.2
JAT14-161	0.26	0.133	6	44	0.56	123	0.12	1	2.57	0.016	0.05	<0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
JAT14-162	0.28	0.141	7	48	0.58	175	0.1	<1	2.9	0.018	0.06	<0.1	0.03	4.2	<0.1	<0.05	8	<0.5	<0.2
JAT14-163	0.52	0.051	10	70	0.98	120	0.164	2	2.08	0.015	0.09	<0.1	0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
JAT14-164	0.52	0.068	10	56	0.99	96	0.121	1	1.99	0.013	0.06	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
JAT14-165	0.3	0.165	6	62	0.79	175	0.102	1	2.65	0.023	0.1	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
JAT14-166	0.36	0.084	9	53	0.89	171	0.122	<1	2.66	0.025	0.1	<0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
JAT14-167	0.52	0.088	8	48	0.86	153	0.105	2	2.12	0.02	0.1	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
JAT14-168	0.51	0.073	11	61	1.25	89	0.106	<1	2.24	0.013	0.09	<0.1	0.02	8	<0.1	<0.05	5	<0.5	<0.2
JAT14-169	0.62	0.022	3	24	0.29	85	0.084	2	1.68	0.024	0.03	<0.1	0.02	2	<0.1	<0.05	5	<0.5	<0.2
JAT14-170	0.47	0.052	9	60	0.87	127	0.104	<1	2.14	0.012	0.1	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
JAT14-171	0.71	0.098	12	65	1.16	90	0.099	1	1.95	0.017	0.07	<0.1	0.02	7.7	<0.1	<0.05	5	<0.5	<0.2
JAT14-172	0.68	0.059	9	59	0.57	92	0.099	2	2.02	0.027	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
JAT14-173	0.25	0.09	8	34	0.44	154	0.098	<1	2.41	0.021	0.06	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
JAT14-174	0.17	0.185	5	23	0.25	92	0.096	1	1.98	0.026	0.04	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2

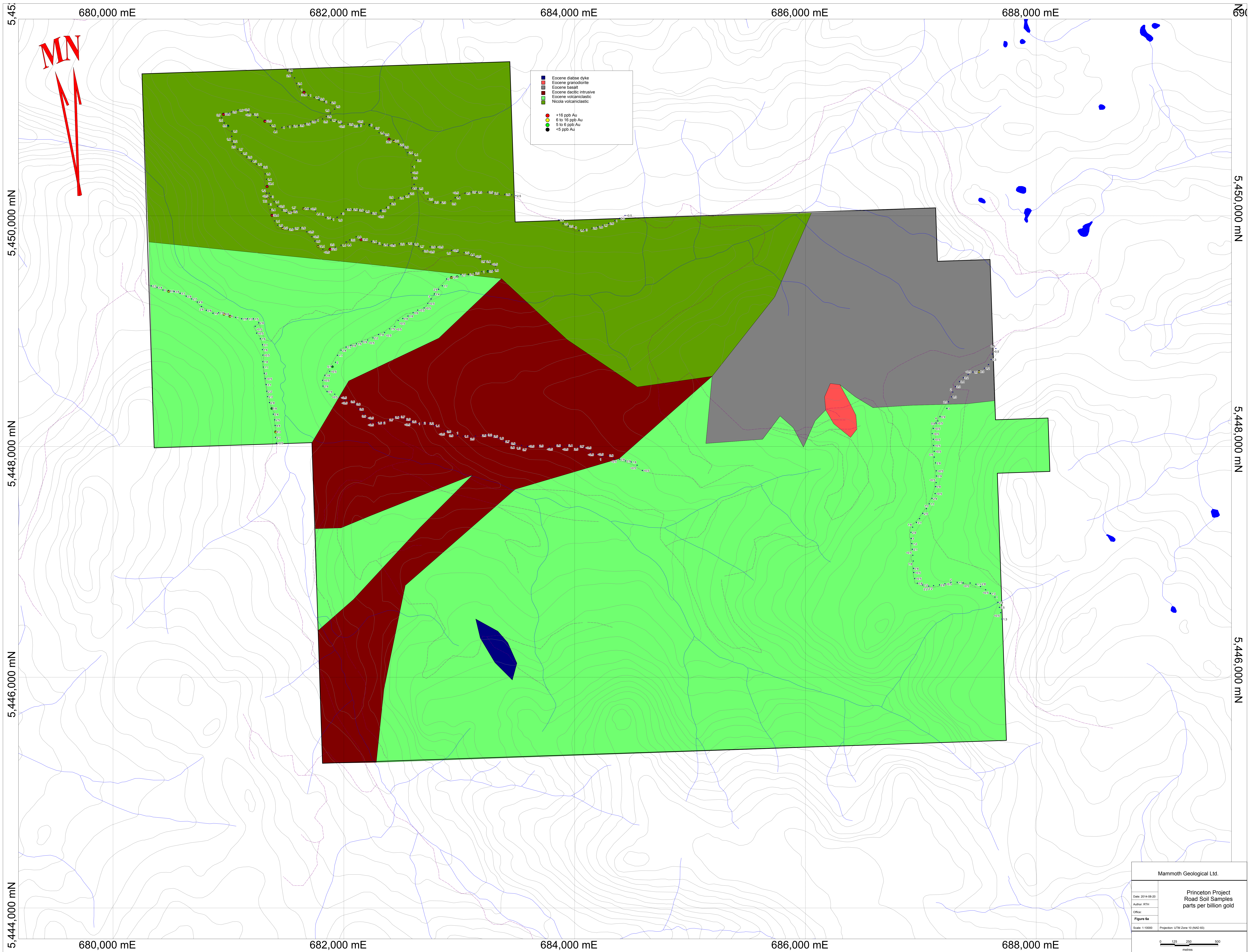




- Eocene diabase dyke
- Eocene granodiorite
- Eocene basalt
- Eocene dacitic intrusive
- Eocene volcanioclastic
- Nicola volcanioclastic
- outcrop location

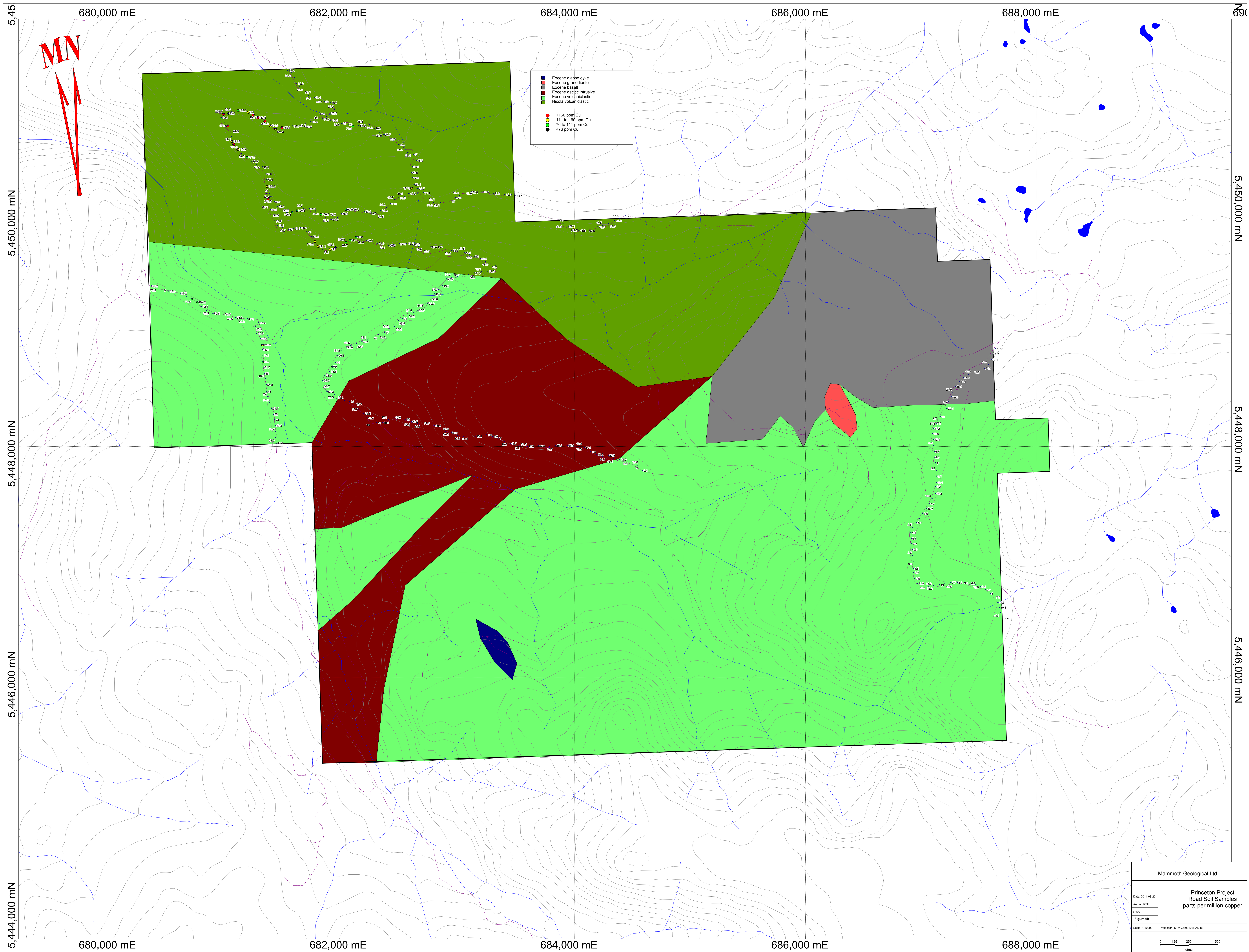
Mammoth Geological Ltd.	
Date: 2014-08-20	<b>Princeton Project Road Soil Samples Sample Locations</b>  Figure 6a Scale: 1:10000    Projection: UTM Zone 10 (NAD 83)
Author: RTM	
Office:	
Scale: 1:10000	





Mammoth Geological Ltd.	
Date: 2014-08-20	Princeton Project Road Soil Samples parts per billion gold
Author: RTM	
Office:	
Figure 6a	
Scale: 1:10000	Projection: UTM Zone 10 (NAD 83)



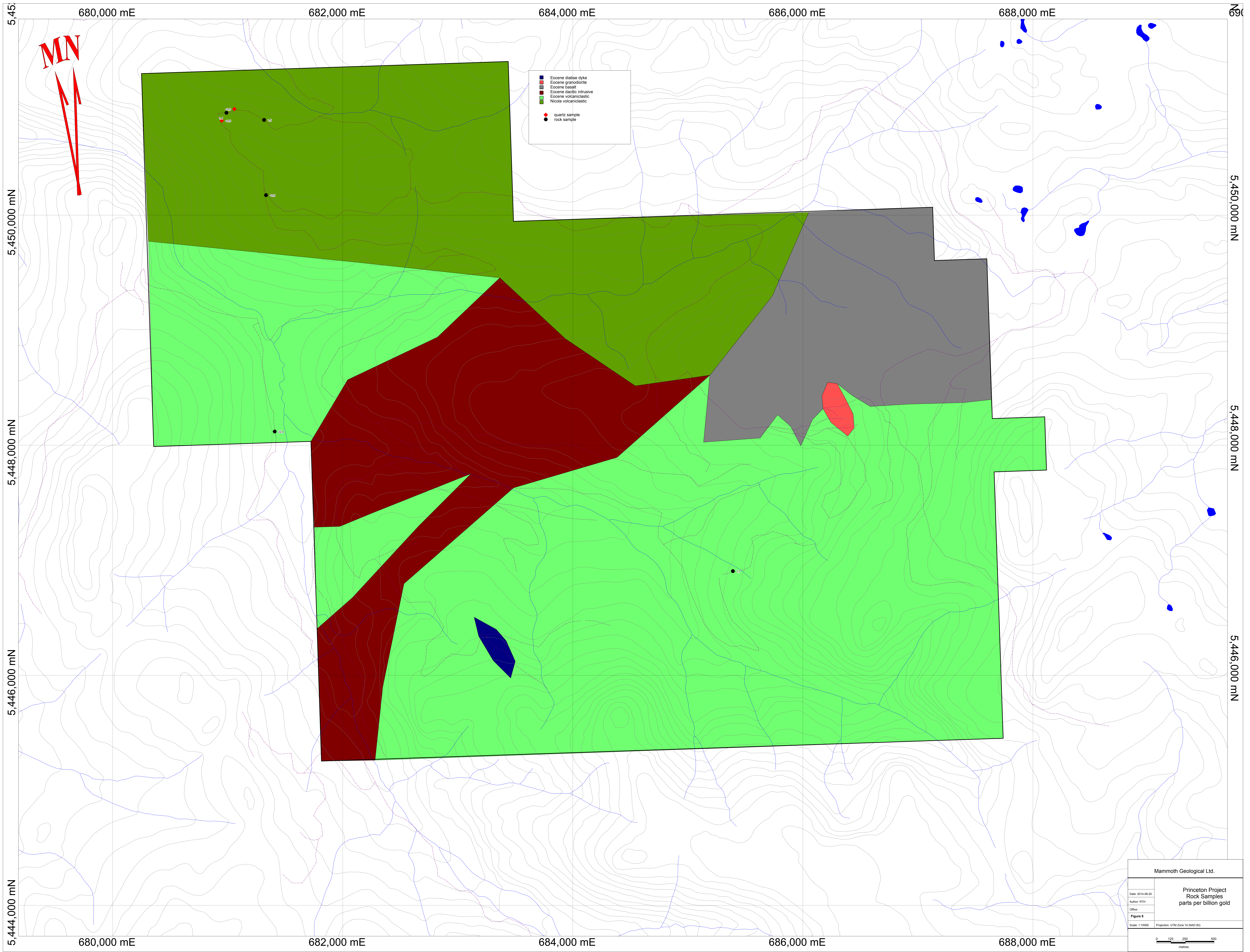


Mammoth Geological Ltd.	
Date: 2014-08-20	Princeton Project Road Soil Samples parts per million copper
Author: RTH	
Office:	
Figure 6b	Projection: UTM Zone 10 (NAD 83)
Scale: 1:10000	













www.acmelab.com

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

**Client:** **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Submitted By: Tim Henneberry  
Receiving Lab: Canada-Vancouver  
Received: July 24, 2014  
Report Date: August 12, 2014  
Page: 1 of 9

## CERTIFICATE OF ANALYSIS

VAN14002376.1

### CLIENT JOB INFORMATION

Project: Princeton  
Shipment ID:  
P.O. Number  
Number of Samples: 213

### SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	212	Dry at 60C			VAN
SS80	208	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	212	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DISP2	212	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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 12, 2014

Page: 2 of 9

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	ppm	
RTH14-001	Soil	0.5	13.2	5.5	25	<0.1	5.0	2.5	106	1.28	1.9	1.3	0.4	11	<0.1	<0.1	0.1	34	0.07	0.079	3
RTH14-002	Soil	0.7	11.1	7.9	36	<0.1	8.6	3.9	222	1.47	1.7	<0.5	1.2	17	<0.1	<0.1	0.2	39	0.08	0.088	5
RTH14-003	Soil	0.5	10.8	7.7	31	<0.1	7.2	3.3	159	1.22	1.5	0.5	0.9	15	<0.1	<0.1	0.1	34	0.10	0.068	4
RTH14-004	Soil	0.2	11.5	7.3	27	<0.1	7.7	3.2	150	1.12	<0.5	2.9	1.0	48	<0.1	<0.1	0.2	31	0.27	0.035	7
RTH14-005	Soil	0.5	7.8	5.5	25	<0.1	4.5	2.3	92	1.32	1.6	1.0	0.9	10	<0.1	0.1	0.2	31	0.07	0.086	3
RTH14-006	Soil	0.4	8.0	5.2	20	<0.1	5.5	2.2	89	0.98	1.1	1.3	0.5	18	<0.1	<0.1	0.1	25	0.10	0.039	3
RTH14-007	Soil	0.6	7.7	4.9	22	<0.1	6.3	2.6	66	1.41	1.4	<0.5	0.9	16	<0.1	<0.1	0.1	33	0.08	0.109	3
RTH14-008	Soil	0.6	9.4	5.8	28	<0.1	8.1	3.7	207	1.42	0.9	2.8	1.0	26	<0.1	<0.1	0.1	37	0.14	0.055	4
RTH14-009	Soil	0.6	13.6	6.0	35	<0.1	12.0	5.0	140	1.67	1.1	1.1	1.4	18	<0.1	<0.1	0.1	44	0.10	0.077	5
RTH14-010	Soil	0.6	6.7	5.9	35	<0.1	5.5	3.4	224	1.27	1.8	<0.5	0.9	13	<0.1	<0.1	0.1	29	0.08	0.097	3
RTH14-011	Soil	0.5	8.5	5.8	33	<0.1	10.9	4.1	139	1.60	1.4	0.8	1.1	16	<0.1	<0.1	<0.1	42	0.07	0.070	3
RTH14-012	Soil	0.4	8.5	6.4	34	<0.1	10.8	3.6	159	1.41	1.3	1.8	1.0	17	<0.1	<0.1	0.2	35	0.07	0.080	3
RTH14-013	Soil	0.8	4.6	5.2	20	<0.1	3.3	2.8	128	1.43	1.8	<0.5	1.1	12	<0.1	<0.1	0.1	30	0.06	0.108	3
RTH14-014	Soil	0.5	5.4	5.7	27	<0.1	4.5	2.7	163	1.27	1.4	2.1	0.9	14	<0.1	<0.1	0.1	29	0.05	0.091	3
RTH14-015	Soil	0.5	4.7	5.9	18	<0.1	2.4	1.8	119	1.28	1.3	1.2	0.8	12	<0.1	<0.1	0.1	30	0.06	0.114	3
RTH14-016	Soil	0.6	5.8	5.3	22	<0.1	5.2	2.5	117	1.30	1.2	3.0	1.1	12	<0.1	<0.1	0.1	30	0.05	0.104	3
RTH14-017	Soil	0.5	4.1	5.2	23	<0.1	4.0	2.2	73	1.42	2.0	2.9	1.1	11	<0.1	<0.1	<0.1	34	0.06	0.105	3
RTH14-018	Soil	0.4	3.5	4.6	16	<0.1	2.7	1.2	44	0.99	0.9	1.8	0.6	11	<0.1	<0.1	0.1	24	0.05	0.071	2
RTH14-019	Soil	0.4	5.1	5.1	19	<0.1	4.7	2.3	87	1.33	1.6	3.1	1.1	17	<0.1	<0.1	<0.1	34	0.06	0.093	4
RTH14-020	Soil	0.6	5.2	5.2	20	<0.1	6.0	2.1	64	1.32	1.8	1.4	0.8	24	<0.1	<0.1	0.1	30	0.10	0.110	4
RTH14-021	Soil	0.4	6.9	4.6	26	<0.1	8.3	3.1	61	1.46	0.9	2.5	0.7	35	<0.1	<0.1	<0.1	33	0.12	0.081	4
RTH14-022	Soil	0.3	16.7	6.2	34	<0.1	17.4	6.0	224	1.83	1.3	1.3	1.9	68	<0.1	<0.1	0.1	48	0.17	0.068	8
RTH14-023	Soil	0.5	7.7	5.1	29	<0.1	7.2	3.2	226	1.34	0.6	1.1	0.9	34	<0.1	<0.1	0.1	33	0.12	0.090	4
RTH14-024	Soil	0.4	10.4	4.7	33	<0.1	10.1	4.4	109	1.57	1.5	2.4	1.2	21	<0.1	<0.1	0.1	42	0.09	0.072	5
RTH14-025	Soil	0.4	15.3	6.2	47	<0.1	15.0	5.5	404	1.71	1.4	<0.5	1.2	55	<0.1	<0.1	0.1	49	0.25	0.102	6
RTH14-026	Soil	0.4	9.2	5.1	27	<0.1	7.7	3.5	105	1.45	1.4	0.8	1.4	24	<0.1	<0.1	<0.1	36	0.08	0.093	4
RTH14-027	Soil	0.3	13.1	7.1	29	<0.1	12.4	5.0	97	1.55	1.3	<0.5	1.7	34	<0.1	<0.1	0.1	42	0.14	0.041	6
RTH14-028	Soil	0.3	6.1	6.1	14	<0.1	3.6	1.5	30	0.69	<0.5	0.9	0.5	19	<0.1	<0.1	0.1	14	0.08	0.036	3
RTH14-029	Soil	0.3	9.1	6.2	35	<0.1	9.2	3.1	114	1.27	1.2	<0.5	1.1	22	<0.1	<0.1	0.1	33	0.11	0.083	4
RTH14-030	Soil	0.2	20.1	8.6	32	<0.1	17.5	6.4	117	1.90	<0.5	3.0	2.5	58	<0.1	<0.1	0.2	52	0.17	0.037	9

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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
Report Date: August 12, 2014

Page: 2 of 9

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
RTH14-001	Soil	12	0.08	55	0.073	1	1.59	0.013	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2	
RTH14-002	Soil	12	0.13	103	0.099	2	2.39	0.020	0.04	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2	
RTH14-003	Soil	13	0.10	58	0.084	3	1.52	0.017	0.04	<0.1	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2	
RTH14-004	Soil	16	0.16	134	0.093	3	1.26	0.022	0.05	<0.1	0.02	1.6	0.1	<0.05	6	<0.5	<0.2	
RTH14-005	Soil	8	0.06	45	0.086	3	1.65	0.017	0.03	<0.1	0.05	1.1	<0.1	<0.05	7	<0.5	<0.2	
RTH14-006	Soil	9	0.08	67	0.072	<1	1.06	0.017	0.04	<0.1	0.04	0.9	<0.1	<0.05	6	<0.5	<0.2	
RTH14-007	Soil	9	0.07	45	0.085	1	1.95	0.021	0.03	<0.1	0.04	1.3	<0.1	0.08	7	<0.5	<0.2	
RTH14-008	Soil	12	0.11	108	0.096	<1	1.85	0.021	0.04	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2	
RTH14-009	Soil	17	0.13	94	0.101	<1	2.04	0.019	0.04	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2	
RTH14-010	Soil	8	0.08	61	0.101	<1	1.60	0.026	0.03	0.1	0.02	1.3	<0.1	<0.05	6	0.5	<0.2	
RTH14-011	Soil	13	0.11	53	0.095	<1	2.28	0.019	0.03	<0.1	0.05	1.9	<0.1	<0.05	7	<0.5	<0.2	
RTH14-012	Soil	13	0.11	75	0.094	<1	1.94	0.019	0.04	<0.1	0.01	1.5	<0.1	<0.05	8	<0.5	<0.2	
RTH14-013	Soil	6	0.04	51	0.094	2	2.67	0.021	0.02	0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2	
RTH14-014	Soil	7	0.06	51	0.085	1	1.86	0.022	0.03	<0.1	0.06	1.3	<0.1	<0.05	7	0.6	<0.2	
RTH14-015	Soil	5	0.04	37	0.077	2	2.18	0.018	0.03	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2	
RTH14-016	Soil	7	0.06	48	0.097	<1	1.99	0.022	0.03	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2	
RTH14-017	Soil	6	0.05	34	0.093	3	1.80	0.021	0.02	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2	
RTH14-018	Soil	5	0.03	28	0.071	2	1.43	0.019	0.02	<0.1	0.05	0.9	<0.1	<0.05	6	0.7	<0.2	
RTH14-019	Soil	8	0.06	42	0.086	1	2.12	0.020	0.02	<0.1	0.05	1.6	<0.1	<0.05	6	0.6	<0.2	
RTH14-020	Soil	9	0.07	71	0.082	2	2.19	0.020	0.03	0.1	0.06	1.5	<0.1	<0.05	7	<0.5	<0.2	
RTH14-021	Soil	13	0.11	64	0.086	2	1.77	0.020	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	0.6	<0.2	
RTH14-022	Soil	24	0.20	208	0.100	1	2.14	0.022	0.05	<0.1	0.04	2.6	<0.1	<0.05	6	<0.5	<0.2	
RTH14-023	Soil	11	0.09	76	0.080	1	1.79	0.022	0.04	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2	
RTH14-024	Soil	18	0.12	78	0.090	<1	1.75	0.020	0.03	<0.1	0.02	2.0	<0.1	<0.05	6	0.7	<0.2	
RTH14-025	Soil	26	0.19	166	0.093	1	2.54	0.019	0.07	<0.1	0.05	2.3	<0.1	<0.05	7	<0.5	<0.2	
RTH14-026	Soil	12	0.09	84	0.094	1	2.30	0.023	0.03	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2	
RTH14-027	Soil	24	0.16	174	0.094	1	2.06	0.021	0.03	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2	
RTH14-028	Soil	8	0.06	88	0.064	2	0.99	0.019	0.03	<0.1	0.02	0.8	<0.1	<0.05	5	1.0	<0.2	
RTH14-029	Soil	14	0.14	116	0.087	3	1.84	0.026	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2	
RTH14-030	Soil	28	0.24	374	0.102	<1	2.64	0.018	0.06	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2	



# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1		
RTH14-031	Soil	0.3	9.2	7.3	25	<0.1	9.3	3.5	233	1.27	1.5	2.3	0.8	29	<0.1	<0.1	0.1	32	0.12	0.072	4	
RTH14-032	Soil	0.2	24.8	8.2	38	<0.1	17.3	7.6	472	1.72	0.6	1.3	2.4	115	<0.1	<0.1	<0.1	52	0.49	0.062	15	
RTH14-033	Soil	0.3	21.9	6.3	38	<0.1	17.7	6.7	246	2.00	1.0	2.0	2.2	61	0.1	<0.1	<0.1	61	0.26	0.072	9	
RTH14-034	Soil	0.3	18.3	6.0	46	<0.1	20.7	8.6	154	2.20	1.0	3.3	1.6	29	<0.1	<0.1	<0.1	61	0.13	0.095	6	
RTH14-035	Soil	0.3	14.1	6.2	35	<0.1	9.5	5.1	113	1.78	1.3	3.1	1.6	48	<0.1	<0.1	<0.1	48	0.19	0.075	7	
RTH14-036	Soil	0.2	21.9	7.3	40	<0.1	18.8	7.3	117	2.15	1.2	3.2	1.9	47	<0.1	<0.1	<0.1	60	0.15	0.065	8	
RTH14-037	Soil	0.4	16.8	6.7	36	<0.1	16.2	6.7	140	2.08	1.8	<0.5	1.5	29	<0.1	<0.1	0.1	54	0.13	0.103	6	
RTH14-038	Soil	<0.1	47.8	7.0	43	<0.1	17.4	9.8	424	2.14	0.9	1.7	3.3	129	<0.1	<0.1	<0.1	65	0.64	0.064	13	
RTH14-039	Soil	0.3	22.8	7.7	38	<0.1	18.0	8.0	230	2.24	2.6	6.3	2.0	34	<0.1	<0.1	0.1	69	0.16	0.113	8	
RTH14-040	Soil	0.3	21.4	8.1	44	<0.1	15.4	7.1	119	2.04	1.6	1.2	1.8	43	<0.1	<0.1	0.1	62	0.16	0.070	7	
RTH14-041	Soil	0.4	18.1	7.7	41	0.1	10.5	4.6	115	1.77	2.0	0.6	1.9	27	<0.1	<0.1	0.1	51	0.12	0.099	9	
RTH14-042	Soil	0.5	19.4	7.7	36	<0.1	15.8	5.8	115	1.93	2.0	1.3	1.5	29	<0.1	<0.1	0.1	53	0.12	0.079	6	
RTH14-043	Soil	1.9	30.0	6.2	114	0.2	33.4	12.0	609	2.55	3.6	2.1	1.6	41	1.0	0.3	<0.1	71	0.39	0.067	11	
RTH14-044	Soil	0.3	41.4	4.2	52	0.3	56.3	13.2	361	2.90	2.9	1.9	2.5	71	<0.1	0.1	<0.1	82	0.45	0.046	19	
RTH14-045	Soil	0.4	27.1	4.3	78	0.3	34.2	8.4	243	2.12	2.4	2.3	2.1	43	0.2	0.2	<0.1	62	0.29	0.079	14	
RTH14-045B	Rock Pulp	5.4	50.1	4.0	44	0.1	32.4	9.4	485	2.83	5.2	2.5	1.1	47	0.1	0.5	<0.1	65	1.09	0.052	5	
RTH14-046	Soil	3.0	147.7	24.7	289	0.7	156.7	49.6	1760	8.55	32.4	9.0	4.2	48	2.6	1.9	0.2	178	0.51	0.104	47	
RTH14-047	Soil	0.4	11.8	3.6	69	<0.1	14.3	4.3	412	1.52	1.3	1.4	0.9	34	0.1	<0.1	<0.1	36	0.24	0.034	5	
RTH14-048	Soil	0.7	40.0	5.3	67	0.1	48.7	12.2	426	2.75	3.9	3.0	2.3	70	0.2	0.2	<0.1	72	0.49	0.078	18	
RTH14-049	Soil	0.3	64.1	5.3	43	0.2	52.5	8.4	442	2.08	3.2	2.5	2.4	79	<0.1	<0.1	<0.1	48	0.48	0.036	48	
RTH14-050	Soil	0.6	12.8	3.8	47	<0.1	14.9	5.9	717	1.33	2.3	1.1	0.8	48	<0.1	<0.1	<0.1	35	0.32	0.042	4	
RTH14-051	Soil	0.7	12.1	3.8	74	<0.1	22.2	5.2	365	1.46	1.6	0.6	1.3	39	<0.1	<0.1	<0.1	38	0.25	0.111	6	
RTH14-052	Soil	1.2	12.3	4.8	55	<0.1	16.8	4.7	580	1.34	1.6	<0.5	0.9	38	<0.1	<0.1	<0.1	35	0.26	0.045	5	
RTH14-053	Soil	0.6	11.2	3.4	86	<0.1	15.7	3.9	572	1.34	1.7	2.1	0.8	37	0.2	<0.1	<0.1	31	0.28	0.036	5	
RTH14-054	Soil	1.3	13.9	3.9	71	<0.1	14.2	6.0	641	1.60	1.8	0.5	0.6	35	<0.1	<0.1	<0.1	40	0.26	0.042	4	
RTH14-055	Soil	0.8	16.6	4.0	63	0.1	16.9	7.4	572	1.68	2.3	<0.5	1.1	38	0.1	<0.1	<0.1	39	0.24	0.064	7	
RTH14-056	Soil	1.7	28.5	5.9	82	<0.1	28.8	9.9	660	2.03	4.2	1.3	1.2	40	0.2	0.1	<0.1	46	0.26	0.105	10	
RTH14-057	Soil	1.4	32.4	5.0	78	0.2	20.6	8.3	485	2.29	5.1	0.7	1.4	33	0.2	0.4	<0.1	50	0.29	0.047	9	
RTH14-058	Soil	1.3	14.9	4.7	103	0.1	14.4	6.5	558	1.74	3.1	4.3	0.8	24	0.2	0.2	<0.1	39	0.18	0.081	4	
RTH14-059	Soil	1.2	19.4	5.1	119	0.2	17.4	6.1	824	1.64	3.0	<0.5	1.1	29	0.2	0.1	<0.1	34	0.22	0.050	7	

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
RTH14-031	Soil	15	0.13	82	0.074	<1	1.50	0.020	0.04	<0.1	0.07	1.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-032	Soil	23	0.34	240	0.098	<1	2.01	0.022	0.06	<0.1	0.04	3.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-033	Soil	32	0.23	159	0.122	2	2.24	0.026	0.06	<0.1	0.04	4.0	<0.1	<0.05	6	0.6	<0.2
RTH14-034	Soil	26	0.25	157	0.111	<1	3.01	0.023	0.05	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	<0.2
RTH14-035	Soil	16	0.23	117	0.101	<1	2.83	0.021	0.05	<0.1	0.02	2.3	<0.1	<0.05	8	<0.5	<0.2
RTH14-036	Soil	31	0.27	285	0.105	<1	3.46	0.021	0.05	<0.1	0.03	2.9	<0.1	<0.05	8	<0.5	<0.2
RTH14-037	Soil	23	0.27	158	0.112	2	3.67	0.023	0.04	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
RTH14-038	Soil	26	0.54	221	0.130	1	1.87	0.041	0.05	<0.1	<0.01	5.0	0.1	<0.05	5	<0.5	<0.2
RTH14-039	Soil	26	0.31	197	0.128	<1	3.83	0.028	0.05	<0.1	0.03	2.9	<0.1	<0.05	9	<0.5	<0.2
RTH14-040	Soil	26	0.26	216	0.130	1	3.63	0.027	0.05	<0.1	0.03	2.5	<0.1	<0.05	9	<0.5	<0.2
RTH14-041	Soil	18	0.18	141	0.121	1	3.18	0.025	0.04	<0.1	0.05	2.8	<0.1	<0.05	9	<0.5	<0.2
RTH14-042	Soil	23	0.22	149	0.117	<1	3.42	0.022	0.05	<0.1	0.04	2.4	<0.1	<0.05	9	<0.5	<0.2
RTH14-043	Soil	40	0.57	181	0.108	3	1.86	0.028	0.32	<0.1	0.05	4.9	0.2	<0.05	6	<0.5	<0.2
RTH14-044	Soil	79	0.60	129	0.109	2	1.91	0.054	0.11	<0.1	0.02	10.0	0.1	<0.05	6	<0.5	<0.2
RTH14-045	Soil	44	0.42	180	0.101	<1	1.68	0.028	0.28	<0.1	0.01	5.4	0.1	<0.05	5	<0.5	<0.2
RTH14-045B	Rock Pulp	35	0.74	109	0.133	3	1.42	0.082	0.10	0.4	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-046	Soil	62	1.06	216	0.073	1	2.24	0.019	0.50	<0.1	0.08	9.9	0.3	<0.05	8	2.6	<0.2
RTH14-047	Soil	25	0.24	172	0.085	2	1.44	0.027	0.12	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-048	Soil	57	0.61	157	0.111	2	1.92	0.036	0.14	<0.1	0.03	7.0	0.1	<0.05	5	<0.5	<0.2
RTH14-049	Soil	61	0.40	174	0.098	2	2.26	0.031	0.10	<0.1	0.04	10.8	0.1	<0.05	6	1.1	<0.2
RTH14-050	Soil	28	0.23	184	0.082	1	1.06	0.031	0.08	<0.1	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
RTH14-051	Soil	27	0.21	228	0.089	2	1.44	0.027	0.10	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
RTH14-052	Soil	24	0.20	164	0.083	2	1.15	0.028	0.09	<0.1	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
RTH14-053	Soil	22	0.19	164	0.082	3	1.15	0.027	0.09	<0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-054	Soil	27	0.28	168	0.087	2	1.39	0.028	0.15	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
RTH14-055	Soil	26	0.26	223	0.081	3	1.51	0.025	0.14	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-056	Soil	36	0.30	227	0.080	2	2.22	0.023	0.13	<0.1	0.03	4.9	<0.1	<0.05	6	0.5	<0.2
RTH14-057	Soil	30	0.40	165	0.108	<1	1.37	0.017	0.17	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-058	Soil	21	0.23	195	0.073	1	1.45	0.024	0.07	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-059	Soil	18	0.25	246	0.066	2	1.48	0.026	0.11	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

**Page:** 4 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method Analyte	Unit	AQ201	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1		
RTH14-060	Soil	0.8	22.7	6.1	165	<0.1	25.1	7.2	895	1.90	2.9	1.4	1.5	63	0.6	0.1	<0.1	36	0.58	0.092	11	
RTH14-061	Soil	0.5	27.0	4.9	117	0.1	25.8	6.6	693	1.88	3.5	0.9	1.5	56	0.1	0.1	<0.1	35	0.41	0.050	12	
RTH14-062	Soil	0.3	29.1	5.7	89	0.1	21.7	7.6	508	2.35	2.1	2.3	2.0	50	0.1	<0.1	0.1	44	0.36	0.028	14	
RTH14-063	Soil	2.3	58.9	5.9	74	0.1	29.7	11.5	481	2.81	8.8	5.0	1.7	49	0.2	0.6	<0.1	74	0.45	0.042	13	
RTH14-064	Soil	1.7	76.4	7.7	77	0.3	39.5	8.7	475	2.76	4.2	2.3	1.9	54	0.4	0.2	0.1	51	0.69	0.022	12	
RTH14-065	Soil	1.4	34.0	5.0	82	0.3	26.4	10.0	221	2.40	4.7	2.9	1.5	29	0.4	0.3	<0.1	64	0.26	0.095	7	
RTH14-066	Soil	1.6	32.0	5.5	60	0.2	32.9	7.1	201	2.29	3.3	<0.5	1.4	33	0.4	0.3	<0.1	52	0.37	0.028	8	
RTH14-067	Soil	1.0	19.6	5.5	86	0.2	22.4	8.4	430	1.82	3.9	1.9	1.2	20	0.3	<0.1	<0.1	50	0.21	0.181	5	
RTH14-068	Soil	1.1	45.2	3.9	57	0.1	27.0	10.2	291	2.65	3.8	1.7	1.5	40	0.2	0.2	<0.1	82	0.42	0.032	7	
RTH14-069	Soil	0.5	14.7	4.8	26	<0.1	12.7	4.2	107	1.33	1.7	2.6	0.6	23	<0.1	<0.1	<0.1	38	0.26	0.030	3	
RTH14-070	Soil	2.4	52.3	6.3	77	0.3	35.2	13.0	690	2.90	4.8	1.9	2.0	49	0.7	0.4	<0.1	64	0.79	0.033	11	
RTH14-071	Soil	1.3	33.2	4.4	57	0.1	24.1	10.8	280	2.41	4.4	1.6	1.2	36	0.2	0.2	<0.1	65	0.36	0.094	6	
RTH14-072	Soil	0.6	19.7	4.1	44	<0.1	25.1	6.5	192	1.93	1.0	2.9	1.1	42	<0.1	0.1	<0.1	50	0.27	0.049	5	
RTH14-073	Soil	0.7	23.0	2.7	36	<0.1	25.4	7.7	197	1.88	1.3	2.0	1.2	53	<0.1	0.1	<0.1	62	0.30	0.040	6	
RTH14-074	Soil	0.3	23.7	2.8	32	<0.1	24.6	6.5	141	1.95	0.9	5.9	1.3	60	<0.1	0.2	<0.1	62	0.35	0.017	6	
RTH14-075	Soil	0.6	35.2	5.4	63	0.1	32.1	9.0	177	2.43	1.6	2.8	1.7	57	0.2	<0.1	<0.1	67	0.35	0.058	10	
RTH14-076	Soil	0.4	34.6	4.7	50	0.1	39.6	8.0	222	2.20	2.2	2.8	1.8	62	0.1	0.2	<0.1	60	0.39	0.028	11	
RTH14-077	Soil	0.2	14.0	3.4	48	<0.1	17.2	4.8	269	1.58	1.2	<0.5	0.7	38	<0.1	<0.1	<0.1	43	0.26	0.012	5	
RTH14-078	Soil	0.6	12.9	3.7	45	<0.1	19.8	5.5	114	1.67	0.7	2.4	0.8	25	<0.1	<0.1	<0.1	38	0.16	0.112	3	
RTH14-079	Soil	11.0	111.9	11.5	215	0.6	48.9	11.7	708	3.37	5.4	4.8	2.3	56	2.3	2.1	0.1	35	0.33	0.065	22	
RTH14-080	Soil	2.0	13.9	5.1	96	0.1	15.0	5.1	991	1.50	2.0	2.2	0.8	34	0.4	0.1	<0.1	31	0.29	0.046	5	
RTH14-081	Soil	1.7	18.2	4.6	67	0.2	19.4	6.3	350	1.58	2.5	1.3	1.2	28	0.2	0.3	<0.1	30	0.23	0.163	6	
RTH14-082	Soil	1.4	36.6	5.7	70	0.2	23.8	9.3	481	2.19	4.3	2.1	1.7	35	0.4	0.3	0.1	46	0.36	0.067	10	
RTH14-083	Soil	1.6	42.7	5.7	119	0.5	23.0	8.6	704	2.12	3.9	0.8	1.5	50	0.9	0.3	<0.1	36	0.40	0.092	10	
RTH14-084	Soil	2.9	21.9	6.5	134	0.3	20.1	6.0	885	1.77	3.6	2.6	1.1	41	1.4	0.3	0.1	32	0.41	0.092	7	
RTH14-085	Soil	3.9	31.5	6.1	144	0.3	27.1	8.1	724	2.04	5.0	3.0	1.3	46	0.7	0.7	0.1	38	0.36	0.146	9	
RTH14-086	Soil	1.7	33.4	6.4	135	0.3	25.1	8.4	818	1.91	3.9	5.8	1.2	34	0.8	0.3	0.1	33	0.41	0.076	10	
RTH14-087	Soil	4.8	27.5	6.1	178	0.4	29.0	8.1	994	2.02	5.5	<0.5	1.0	51	3.0	0.7	<0.1	33	0.36	0.164	8	
RTH14-088	Soil	4.2	27.0	6.0	141	0.3	28.2	8.2	681	2.22	4.3	2.8	1.3	54	1.4	0.5	0.1	38	0.39	0.099	10	
RTH14-089	Soil	2.6	31.1	4.2	165	0.2	25.5	10.3	656	2.01	4.1	<0.5	0.7	38	2.5	0.3	<0.1	37	0.38	0.190	6	

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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**

2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton

Report Date: August 12, 2014

Page: 4 of 9

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
RTH14-060	Soil	21	0.27	310	0.077	6	1.80	0.025	0.20	<0.1	0.05	3.9	0.1	<0.05	5	0.5	<0.2
RTH14-061	Soil	19	0.25	288	0.077	3	1.96	0.029	0.14	<0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
RTH14-062	Soil	29	0.36	155	0.078	2	1.79	0.029	0.18	<0.1	0.02	4.6	0.2	<0.05	6	<0.5	<0.2
RTH14-063	Soil	48	0.68	180	0.153	1	1.64	0.022	0.05	<0.1	0.03	6.1	<0.1	<0.05	5	0.9	<0.2
RTH14-064	Soil	38	0.35	193	0.130	2	3.45	0.031	0.05	<0.1	0.04	5.6	<0.1	<0.05	8	<0.5	<0.2
RTH14-065	Soil	38	0.43	238	0.132	<1	2.29	0.023	0.05	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-066	Soil	34	0.36	312	0.127	<1	2.30	0.033	0.04	<0.1	0.02	4.1	<0.1	<0.05	6	0.7	<0.2
RTH14-067	Soil	32	0.30	146	0.115	<1	2.09	0.021	0.05	<0.1	0.04	3.0	<0.1	<0.05	6	<0.5	<0.2
RTH14-068	Soil	58	0.61	174	0.166	<1	1.78	0.024	0.06	<0.1	0.02	5.8	<0.1	<0.05	5	<0.5	<0.2
RTH14-069	Soil	26	0.26	93	0.097	2	1.54	0.024	0.03	<0.1	0.04	2.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-070	Soil	51	0.59	231	0.143	1	2.19	0.027	0.05	<0.1	0.04	6.6	<0.1	<0.05	6	0.9	<0.2
RTH14-071	Soil	40	0.61	174	0.134	<1	2.00	0.020	0.05	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-072	Soil	44	0.40	161	0.126	2	2.03	0.025	0.09	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-073	Soil	56	0.42	152	0.107	2	1.25	0.036	0.09	<0.1	<0.01	3.7	<0.1	<0.05	4	0.6	<0.2
RTH14-074	Soil	61	0.49	119	0.120	1	1.24	0.044	0.07	<0.1	0.01	4.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-075	Soil	67	0.53	158	0.130	2	2.44	0.022	0.14	<0.1	0.03	6.6	0.1	<0.05	6	0.6	<0.2
RTH14-076	Soil	63	0.54	111	0.126	2	1.89	0.032	0.11	<0.1	0.02	6.3	<0.1	<0.05	5	<0.5	<0.2
RTH14-077	Soil	31	0.27	81	0.100	1	1.23	0.034	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-078	Soil	36	0.27	127	0.096	1	1.83	0.023	0.08	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-079	Soil	19	0.34	228	0.017	1	1.23	0.015	0.10	<0.1	0.03	3.4	0.1	<0.05	3	2.6	<0.2
RTH14-080	Soil	19	0.23	234	0.069	2	1.47	0.021	0.08	<0.1	0.04	2.2	<0.1	<0.05	4	0.6	<0.2
RTH14-081	Soil	18	0.23	295	0.065	1	1.56	0.022	0.06	<0.1	<0.01	2.6	<0.1	<0.05	4	0.5	<0.2
RTH14-082	Soil	29	0.41	201	0.097	<1	1.81	0.019	0.13	<0.1	0.03	4.5	<0.1	<0.05	5	1.5	<0.2
RTH14-083	Soil	21	0.37	178	0.078	2	1.79	0.019	0.10	<0.1	0.02	3.8	<0.1	<0.05	5	1.4	<0.2
RTH14-084	Soil	18	0.34	284	0.067	2	1.55	0.019	0.11	<0.1	0.02	2.4	<0.1	<0.05	5	0.7	<0.2
RTH14-085	Soil	24	0.45	324	0.068	3	1.73	0.017	0.10	<0.1	0.03	3.3	<0.1	<0.05	5	1.5	<0.2
RTH14-086	Soil	18	0.42	230	0.071	3	1.72	0.020	0.10	<0.1	0.03	3.3	<0.1	<0.05	5	1.3	<0.2
RTH14-087	Soil	20	0.48	348	0.065	2	1.68	0.017	0.09	<0.1	0.03	2.7	<0.1	<0.05	5	1.5	<0.2
RTH14-088	Soil	26	0.57	279	0.072	2	1.79	0.014	0.12	<0.1	0.03	3.5	<0.1	<0.05	5	1.1	<0.2
RTH14-089	Soil	25	0.49	387	0.076	3	1.60	0.019	0.11	<0.1	0.03	2.7	<0.1	<0.05	4	0.9	<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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

**Page:** 5 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
RTH14-090	Soil	2.0	53.7	6.4	144	0.2	30.2	16.2	932	2.63	6.9	8.8	0.4	46	2.0	0.3	<0.1	46	0.52	0.138	11
RTH14-090B	Rock Pulp	5.1	46.4	3.8	45	0.1	31.3	8.6	461	2.79	4.8	1.4	1.1	50	0.1	0.6	<0.1	59	1.10	0.055	5
RTH14-091	Soil	1.0	106.8	5.9	91	0.2	30.3	16.3	740	2.92	14.0	1.7	1.3	41	0.4	0.6	<0.1	50	1.08	0.083	12
RTH14-092	Soil	1.4	106.8	6.6	83	0.2	34.1	21.3	845	3.85	25.4	6.2	0.9	36	0.3	0.7	0.1	56	0.72	0.107	12
RTH14-093	Soil	1.2	76.2	7.3	90	0.1	25.5	16.6	947	2.66	17.9	1.6	0.6	43	0.7	0.5	<0.1	47	0.98	0.138	11
RTH14-094	Soil	0.7	38.2	6.0	100	0.1	18.4	13.1	1797	2.25	7.5	2.9	0.8	49	0.4	0.3	0.1	41	0.58	0.125	5
RTH14-095	Soil	0.9	53.3	7.8	89	<0.1	26.4	17.2	1284	3.40	8.6	<0.5	2.0	35	0.4	0.3	0.1	59	0.49	0.087	8
RTH14-096	Soil	0.8	45.7	5.0	72	0.2	24.1	12.6	617	2.36	7.1	1.1	1.3	27	0.2	0.2	<0.1	48	0.33	0.088	7
RTH14-097	Soil	1.1	54.3	5.4	103	0.2	31.2	14.5	961	2.68	9.6	3.0	1.7	42	0.4	0.3	0.1	52	0.41	0.181	7
RTH14-098	Soil	0.9	48.0	5.2	118	<0.1	24.3	12.3	1035	2.31	11.7	<0.5	1.5	45	0.3	0.3	<0.1	43	0.54	0.165	7
RTH14-099	Soil	1.1	111.5	7.5	117	0.1	27.1	23.1	889	4.01	17.0	2.2	2.0	42	0.3	0.4	0.1	58	0.48	0.081	11
RTH14-100	Soil	1.3	47.4	5.3	89	<0.1	22.8	11.8	728	2.66	3.2	1.8	1.2	33	0.2	0.3	<0.1	55	0.39	0.078	6
RTH14-101	Soil	3.2	67.5	7.7	129	0.2	23.5	11.3	711	2.57	4.7	1.5	1.4	30	1.1	0.5	0.1	48	0.48	0.098	8
RTH14-102	Soil	2.7	276.9	12.3	109	0.2	59.0	70.8	1279	6.21	32.9	5.6	2.0	33	0.8	1.6	0.1	81	0.63	0.098	12
RTH14-103	Soil	1.2	48.8	6.9	128	<0.1	21.2	13.3	1219	2.95	2.9	2.1	1.6	31	0.7	0.3	0.1	55	0.40	0.051	7
RTH14-104	Soil	1.2	93.1	5.9	83	0.1	31.0	17.4	378	3.05	4.8	0.7	1.9	25	0.2	0.2	0.1	48	0.32	0.065	8
RTH14-105	Soil	12.8	266.7	16.8	104	0.1	51.3	32.5	1497	12.78	39.8	18.8	2.7	21	0.1	2.9	0.1	69	0.33	0.109	16
RTH14-106	Soil	1.9	93.3	7.9	123	<0.1	29.2	23.6	863	4.26	6.6	4.8	1.7	15	0.2	0.4	0.2	50	0.18	0.147	7
RTH14-107	Soil	1.1	30.6	5.8	94	<0.1	13.2	10.4	1313	2.11	3.9	0.9	0.7	12	0.2	0.1	0.1	45	0.14	0.129	3
RTH14-108	Soil	65.6	105.2	12.7	402	1.0	83.7	18.4	434	5.99	37.4	4.6	3.3	18	1.6	3.5	0.2	94	0.20	0.117	11
RTH14-109	Soil	1.5	18.4	6.1	217	0.4	21.4	6.9	460	2.16	5.4	<0.5	1.7	14	1.8	0.2	0.1	42	0.15	0.089	6
RTH14-110	Soil	1.4	53.9	4.1	50	<0.1	28.9	13.1	474	2.83	4.6	3.5	1.6	51	0.1	0.3	<0.1	87	0.52	0.054	10
RTH14-111	Soil	1.2	44.0	4.6	50	<0.1	28.3	11.6	350	2.53	3.6	4.0	1.4	39	<0.1	0.2	<0.1	72	0.36	0.075	8
RTH14-112	Soil	1.5	48.4	3.9	47	<0.1	29.5	12.2	388	2.77	3.4	0.8	1.6	47	0.1	0.3	<0.1	80	0.58	0.048	10
RTH14-113	Soil	1.5	50.5	3.6	47	<0.1	27.2	11.0	333	2.77	4.4	0.9	1.7	52	<0.1	0.3	<0.1	81	0.53	0.043	9
RTH14-114	Soil	1.0	69.5	4.9	78	0.2	26.1	14.1	564	3.03	8.7	1.2	1.5	41	0.1	0.4	<0.1	70	0.56	0.074	8
RTH14-115	Soil	2.2	243.5	8.1	87	0.2	78.0	67.2	979	7.67	34.7	7.2	2.3	56	0.2	1.2	<0.1	110	0.63	0.086	17
RTH14-116	Soil	1.0	69.1	6.9	79	0.2	26.8	16.6	697	2.76	11.2	3.0	1.2	35	0.3	0.3	<0.1	60	0.59	0.107	11
RTH14-117	Soil	1.1	56.2	6.6	76	0.2	28.9	15.7	910	2.79	6.5	2.4	1.3	34	0.3	0.3	0.1	66	0.48	0.074	9
RTH14-118	Soil	1.1	50.3	4.9	80	0.2	27.3	11.7	420	2.66	5.1	39.4	1.6	36	0.2	0.3	<0.1	66	0.33	0.111	7

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.

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
RTH14-090	Soil	34	0.65	287	0.069	2	2.10	0.014	0.11	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-090B	Rock Pulp	35	0.80	112	0.128	4	1.46	0.093	0.11	0.4	0.04	4.7	<0.1	<0.05	5	0.8	<0.2
RTH14-091	Soil	32	0.71	211	0.105	3	2.15	0.023	0.05	0.1	0.03	4.2	<0.1	<0.05	5	1.7	<0.2
RTH14-092	Soil	38	0.82	363	0.093	2	2.27	0.015	0.07	<0.1	0.04	4.4	<0.1	<0.05	5	0.8	<0.2
RTH14-093	Soil	22	0.58	225	0.084	4	2.45	0.020	0.07	<0.1	0.03	2.8	<0.1	<0.05	7	1.0	<0.2
RTH14-094	Soil	20	0.50	370	0.104	2	1.88	0.017	0.07	<0.1	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-095	Soil	31	0.66	333	0.156	3	2.96	0.017	0.09	<0.1	0.01	4.5	<0.1	<0.05	8	<0.5	<0.2
RTH14-096	Soil	27	0.51	242	0.114	2	2.26	0.020	0.06	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-097	Soil	32	0.65	378	0.112	3	2.21	0.020	0.10	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-098	Soil	26	0.54	415	0.094	2	1.85	0.020	0.10	<0.1	0.04	3.6	<0.1	<0.05	5	1.1	<0.2
RTH14-099	Soil	22	0.55	279	0.131	3	3.19	0.025	0.14	<0.1	0.03	4.3	<0.1	<0.05	8	0.7	<0.2
RTH14-100	Soil	29	0.61	208	0.129	2	2.34	0.023	0.09	<0.1	0.02	3.1	<0.1	<0.05	6	0.7	<0.2
RTH14-101	Soil	12	0.47	183	0.110	2	2.24	0.028	0.07	0.1	0.04	2.9	<0.1	<0.05	6	0.7	<0.2
RTH14-102	Soil	62	1.45	172	0.128	2	2.74	0.013	0.06	<0.1	0.03	10.5	<0.1	<0.05	6	0.9	<0.2
RTH14-103	Soil	21	0.49	392	0.126	2	2.60	0.023	0.10	<0.1	0.03	3.6	0.1	<0.05	7	<0.5	<0.2
RTH14-104	Soil	13	0.34	214	0.122	3	2.79	0.033	0.06	0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
RTH14-105	Soil	20	0.77	255	0.108	1	2.75	0.012	0.05	0.1	0.04	10.4	<0.1	<0.05	6	0.8	<0.2
RTH14-106	Soil	18	0.39	210	0.115	2	2.63	0.024	0.04	0.1	0.02	3.2	<0.1	<0.05	7	0.5	<0.2
RTH14-107	Soil	9	0.16	172	0.116	2	1.90	0.026	0.03	0.1	0.07	1.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-108	Soil	77	0.75	137	0.019	1	1.77	0.010	0.05	0.1	0.17	8.3	0.3	<0.05	5	3.8	0.2
RTH14-109	Soil	10	0.32	171	0.141	2	2.33	0.032	0.03	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-110	Soil	67	0.71	197	0.185	2	1.59	0.028	0.05	<0.1	0.03	7.3	<0.1	<0.05	4	<0.5	<0.2
RTH14-111	Soil	56	0.57	194	0.149	2	1.76	0.029	0.06	<0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-112	Soil	58	0.63	198	0.174	1	1.89	0.027	0.06	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2
RTH14-113	Soil	63	0.73	187	0.199	1	1.76	0.028	0.05	<0.1	0.02	6.4	<0.1	<0.05	4	<0.5	<0.2
RTH14-114	Soil	37	0.70	228	0.169	2	2.25	0.022	0.09	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-115	Soil	90	1.41	229	0.227	2	3.05	0.010	0.07	<0.1	0.02	12.2	<0.1	<0.05	7	0.8	<0.2
RTH14-116	Soil	33	0.49	222	0.144	2	2.78	0.024	0.07	<0.1	0.04	4.2	<0.1	<0.05	7	<0.5	<0.2
RTH14-117	Soil	38	0.54	298	0.156	2	2.73	0.020	0.07	<0.1	0.03	4.0	<0.1	<0.05	7	<0.5	<0.2
RTH14-118	Soil	37	0.60	283	0.153	1	2.32	0.021	0.07	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2





www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

**Page:** 6 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method Analyte	Unit	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
RTH14-119	Soil	0.7	37.9	4.4	66	0.2	22.7	9.3	354	2.23	3.1	1.1	1.3	34	0.1	0.2	<0.1	54	0.29	0.091	7
RTH14-120	Soil	0.7	48.1	5.6	84	0.2	30.1	11.6	376	2.52	4.6	1.9	1.7	35	0.2	0.3	<0.1	57	0.30	0.142	8
RTH14-121	Soil	1.0	48.7	5.1	88	0.2	27.7	13.0	453	2.57	5.7	6.2	1.8	34	0.2	0.3	<0.1	60	0.33	0.169	7
RTH14-122	Soil	0.8	52.0	5.6	70	0.1	27.0	12.1	478	2.71	5.2	3.5	1.8	44	0.2	0.3	<0.1	64	0.44	0.087	9
RTH14-123	Soil	0.8	37.1	5.4	87	0.2	21.3	11.8	690	2.34	8.2	0.7	1.3	34	0.2	0.2	<0.1	53	0.30	0.221	8
RTH14-124	Soil	8.2	94.1	6.3	158	0.5	46.6	15.8	531	3.81	17.0	3.2	1.2	46	1.5	1.7	<0.1	75	0.38	0.082	16
RTH14-125	Soil	13.1	98.8	8.0	184	0.5	40.8	19.3	772	4.09	18.3	4.8	1.9	62	1.4	2.7	<0.1	85	0.53	0.102	15
RTH14-126	Soil	6.8	61.8	6.4	156	0.3	34.9	12.9	644	3.40	12.0	18.9	1.3	51	1.5	1.3	<0.1	66	0.47	0.100	13
RTH14-127	Soil	5.3	59.1	5.6	183	0.3	28.5	11.9	693	2.49	8.5	1.6	0.5	56	2.8	1.0	<0.1	47	0.84	0.144	10
RTH14-128	Soil	4.1	49.5	6.5	138	0.3	27.3	11.1	815	2.51	7.7	2.4	0.6	57	1.6	0.8	<0.1	50	0.72	0.133	11
RTH14-129	Soil	5.8	64.4	7.3	163	0.3	32.2	13.1	755	2.92	11.4	2.0	1.0	63	2.1	1.2	<0.1	56	0.65	0.103	12
RTH14-130	Soil	9.9	29.1	6.7	335	0.2	24.1	10.8	884	2.41	7.9	2.4	0.9	31	6.9	1.4	0.1	49	0.27	0.133	8
RTH14-131	Soil	5.6	26.5	5.2	201	0.4	27.6	8.9	611	2.13	5.1	<0.5	1.6	34	1.7	0.6	<0.1	42	0.25	0.185	9
RTH14-132	Soil	2.7	24.5	4.4	145	0.3	20.0	7.3	637	2.12	3.6	9.8	1.3	40	1.3	0.3	<0.1	40	0.34	0.082	7
RTH14-133	Soil	2.3	24.9	5.2	82	0.1	15.9	7.5	641	1.94	4.3	2.2	1.2	28	0.5	0.3	<0.1	42	0.23	0.093	7
RTH14-134	Soil	0.5	27.4	4.8	57	0.2	18.9	5.5	203	1.72	3.8	2.2	1.2	35	<0.1	0.1	<0.1	41	0.27	0.026	9
RTH14-135	Soil	0.7	42.3	5.4	64	0.3	29.0	8.4	305	2.45	5.7	4.4	2.0	44	0.2	0.4	<0.1	55	0.33	0.034	18
RTH14-135B	Rock Pulp	5.5	50.9	4.2	49	0.1	35.2	10.0	529	3.02	5.2	1.2	1.2	51	0.2	0.5	<0.1	72	1.22	0.063	5
RTH14-136	Soil	0.6	23.0	3.9	52	0.3	16.3	6.3	244	1.57	3.8	<0.5	0.8	30	<0.1	0.1	<0.1	42	0.23	0.042	8
RTH14-137	Soil	0.6	29.2	4.9	61	0.2	22.7	8.2	480	2.13	4.6	0.7	1.5	40	0.1	0.2	<0.1	58	0.32	0.021	8
RTH14-138	Soil	2.6	44.8	5.0	71	0.2	27.2	9.4	413	2.35	7.2	3.4	1.6	46	0.6	0.5	<0.1	68	0.40	0.064	11
RTH14-139	Soil	0.6	18.1	3.7	42	0.2	14.0	4.9	236	1.43	2.4	<0.5	0.8	29	<0.1	<0.1	<0.1	38	0.23	0.033	5
RTH14-140	Soil	1.0	20.5	5.2	71	0.2	23.3	8.1	199	1.93	2.9	1.6	1.4	21	0.1	0.1	<0.1	45	0.14	0.151	5
RTH14-141	Soil	1.0	19.7	4.8	60	0.2	20.0	7.9	174	1.85	3.0	1.9	1.1	29	<0.1	0.1	<0.1	43	0.20	0.114	5
RTH14-142	Soil	0.7	19.5	4.7	62	0.1	19.3	5.5	246	1.60	2.0	5.9	1.2	30	<0.1	0.2	<0.1	46	0.21	0.032	7
RTH14-143	Soil	0.9	16.1	5.2	68	0.2	17.2	6.7	443	1.60	2.3	1.0	0.9	49	0.1	0.2	0.1	38	0.37	0.087	6
RTH14-144	Soil	0.4	20.9	4.0	44	<0.1	15.2	5.2	218	1.84	1.8	<0.5	0.8	35	<0.1	0.2	<0.1	48	0.25	0.017	5
RTH14-145	Soil	0.4	34.8	4.9	69	0.1	23.0	6.0	270	2.28	2.1	<0.5	1.5	58	0.2	0.3	<0.1	55	0.45	0.033	15
RTH14-146	Soil	0.5	20.5	5.1	49	0.3	17.3	4.4	153	1.40	1.5	<0.5	0.7	24	0.1	<0.1	<0.1	30	0.17	0.041	6
RTH14-147	Soil	0.5	21.4	4.1	63	0.2	16.4	6.3	376	1.59	1.5	0.6	0.6	32	<0.1	0.1	<0.1	43	0.25	0.028	6

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.

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
RTH14-119	Soil	26	0.43	217	0.131	2	2.07	0.023	0.05	<0.1	0.04	2.9	<0.1	<0.05	6	<0.5	<0.2
RTH14-120	Soil	32	0.48	249	0.148	2	2.56	0.023	0.07	0.1	0.01	3.9	<0.1	<0.05	7	<0.5	<0.2
RTH14-121	Soil	33	0.49	233	0.150	2	2.29	0.022	0.08	0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
RTH14-122	Soil	38	0.57	191	0.169	2	2.30	0.019	0.12	0.1	0.02	4.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-123	Soil	27	0.38	285	0.123	2	2.13	0.021	0.09	<0.1	0.04	3.6	<0.1	<0.05	6	<0.5	<0.2
RTH14-124	Soil	53	0.69	206	0.156	<1	2.08	0.013	0.08	<0.1	0.02	6.6	0.1	<0.05	5	2.1	<0.2
RTH14-125	Soil	58	1.00	204	0.167	2	1.93	0.010	0.09	<0.1	0.05	7.5	0.1	<0.05	5	3.7	<0.2
RTH14-126	Soil	45	0.88	215	0.120	3	2.18	0.013	0.17	<0.1	0.02	5.9	<0.1	<0.05	6	1.8	<0.2
RTH14-127	Soil	31	0.52	225	0.062	5	1.59	0.011	0.18	<0.1	0.03	3.2	<0.1	0.06	4	1.9	<0.2
RTH14-128	Soil	32	0.54	241	0.069	4	1.72	0.013	0.21	<0.1	0.03	3.6	<0.1	<0.05	5	1.3	<0.2
RTH14-129	Soil	35	0.64	272	0.089	3	1.94	0.012	0.19	<0.1	0.04	5.2	<0.1	<0.05	5	1.7	<0.2
RTH14-130	Soil	25	0.39	207	0.089	2	1.71	0.014	0.14	<0.1	0.03	3.5	<0.1	<0.05	5	1.6	<0.2
RTH14-131	Soil	24	0.35	341	0.086	2	1.82	0.020	0.09	<0.1	0.03	3.9	<0.1	<0.05	5	1.0	<0.2
RTH14-132	Soil	27	0.33	215	0.094	2	1.54	0.020	0.13	<0.1	<0.01	3.4	<0.1	<0.05	5	0.5	<0.2
RTH14-133	Soil	24	0.31	186	0.085	1	1.46	0.018	0.11	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
RTH14-134	Soil	28	0.30	126	0.102	<1	1.73	0.032	0.10	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-135	Soil	44	0.46	122	0.117	1	1.99	0.031	0.10	<0.1	0.05	7.0	<0.1	<0.05	6	<0.5	<0.2
RTH14-135B	Rock Pulp	41	0.81	117	0.162	5	1.64	0.090	0.10	0.4	0.03	5.3	<0.1	<0.05	5	<0.5	<0.2
RTH14-136	Soil	25	0.31	111	0.081	1	1.32	0.028	0.09	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-137	Soil	37	0.43	131	0.118	<1	1.57	0.033	0.09	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-138	Soil	47	0.55	119	0.109	<1	1.34	0.031	0.09	<0.1	0.04	5.4	<0.1	<0.05	4	0.5	<0.2
RTH14-139	Soil	26	0.29	91	0.094	1	1.24	0.030	0.12	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-140	Soil	31	0.33	179	0.101	<1	2.22	0.026	0.05	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
RTH14-141	Soil	27	0.31	135	0.089	<1	1.71	0.023	0.06	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-142	Soil	30	0.34	130	0.093	3	1.46	0.023	0.07	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
RTH14-143	Soil	25	0.31	173	0.070	3	1.57	0.021	0.09	<0.1	0.03	2.5	<0.1	<0.05	5	0.7	<0.2
RTH14-144	Soil	23	0.35	92	0.086	2	1.31	0.032	0.06	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-145	Soil	30	0.49	135	0.084	3	1.74	0.028	0.09	<0.1	0.04	4.3	<0.1	<0.05	6	<0.5	<0.2
RTH14-146	Soil	19	0.29	126	0.080	<1	1.50	0.021	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-147	Soil	19	0.33	109	0.087	2	1.20	0.024	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

**Page:** 7 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1		
RTH14-148	Soil	0.8	34.2	5.5	65	<0.1	32.9	6.9	286	2.29	3.5	0.8	1.6	36	<0.1	0.3	0.1	58	0.29	0.027	9	
RTH14-149	Soil	1.5	34.0	4.7	61	<0.1	24.1	7.3	284	2.31	4.7	0.8	1.7	36	<0.1	0.5	<0.1	59	0.30	0.035	9	
RTH14-150	Soil	1.1	39.5	5.2	66	<0.1	29.0	9.0	330	2.60	5.4	<0.5	2.3	46	0.1	0.4	0.1	60	0.37	0.065	14	
RTH14-151	Soil	2.2	26.2	7.3	113	0.1	35.2	10.8	513	2.43	5.7	<0.5	1.8	27	0.2	0.3	0.1	52	0.21	0.167	10	
RTH14-152	Soil	1.8	36.2	4.8	66	<0.1	22.3	9.5	363	2.41	5.1	1.5	1.8	49	0.2	0.5	<0.1	58	0.40	0.055	13	
RTH14-153	Soil	0.5	17.0	4.6	55	0.1	13.5	4.6	356	1.44	1.7	<0.5	0.8	32	0.3	0.1	<0.1	35	0.21	0.033	9	
RTH14-154	Soil	0.7	18.0	4.7	82	0.1	18.5	6.5	257	1.76	1.9	1.6	1.7	23	0.1	0.1	<0.1	48	0.25	0.140	7	
RTH14-155	Soil	0.2	13.0	4.7	77	0.1	13.7	4.9	134	1.47	1.1	<0.5	0.7	23	<0.1	<0.1	<0.1	36	0.20	0.029	3	
RTH14-156	Soil	0.4	13.2	5.7	68	0.2	13.6	3.9	304	1.34	1.5	<0.5	0.8	35	<0.1	<0.1	<0.1	27	0.34	0.040	4	
RTH14-157	Soil	1.2	35.5	5.5	67	<0.1	21.2	8.5	341	2.59	4.4	0.9	1.9	40	0.2	0.3	<0.1	71	0.38	0.060	15	
RTH14-158	Soil	0.7	13.7	5.4	87	0.2	13.3	5.1	763	1.54	1.6	0.8	1.0	33	0.5	0.1	<0.1	38	0.37	0.080	5	
RTH14-159	Soil	0.5	15.7	4.9	66	0.1	11.1	6.0	256	1.63	1.6	0.8	1.1	47	<0.1	<0.1	<0.1	46	0.43	0.076	4	
RTH14-160	Soil	0.8	69.0	5.6	96	0.4	31.8	8.0	629	2.40	3.6	0.6	1.6	64	0.6	0.3	<0.1	54	0.56	0.043	26	
RTH14-161	Soil	0.8	12.4	4.0	75	0.1	13.5	5.2	165	1.56	1.2	<0.5	1.1	21	0.1	<0.1	<0.1	36	0.22	0.062	4	
RTH14-162	Soil	0.8	17.7	4.8	93	0.1	20.6	7.1	350	1.91	2.3	<0.5	1.4	32	0.2	0.2	<0.1	48	0.33	0.104	6	
RTH14-163	Soil	1.0	21.3	5.2	91	<0.1	22.5	7.6	239	2.06	2.6	<0.5	1.4	24	0.2	0.2	<0.1	47	0.20	0.069	6	
RTH14-164	Soil	0.1	9.4	4.1	47	<0.1	17.1	3.1	196	1.19	1.3	<0.5	0.7	26	<0.1	<0.1	<0.1	35	0.15	0.026	6	
RTH14-165	Soil	0.2	9.0	5.1	65	<0.1	26.6	4.9	419	1.45	0.5	<0.5	0.7	21	<0.1	<0.1	0.1	39	0.12	0.043	6	
RTH14-166	Soil	0.2	15.8	4.3	41	<0.1	24.0	6.2	367	1.46	1.5	1.8	1.0	51	<0.1	<0.1	<0.1	42	0.27	0.027	13	
RTH14-167	Soil	0.1	12.1	4.5	38	<0.1	20.4	4.6	223	1.26	0.9	0.9	0.8	33	<0.1	<0.1	<0.1	35	0.17	0.018	6	
RTH14-168	Soil	0.2	14.9	4.1	37	<0.1	25.1	5.5	392	1.40	0.8	0.8	1.3	51	<0.1	<0.1	<0.1	42	0.27	0.025	12	
RTH14-169	Soil	0.1	13.4	4.4	43	<0.1	21.5	5.0	282	1.50	1.1	<0.5	1.0	29	<0.1	<0.1	0.1	40	0.21	0.021	6	
RTH14-170	Soil	0.1	22.5	5.9	49	<0.1	27.4	4.6	217	1.62	1.1	0.8	1.2	43	<0.1	<0.1	0.1	35	0.26	0.027	8	
RTH14-171	Soil	0.1	14.1	3.5	34	<0.1	22.0	4.3	127	1.41	1.1	1.0	1.4	32	<0.1	<0.1	<0.1	38	0.21	0.020	6	
RTH14-172	Soil	0.4	12.2	4.1	51	<0.1	29.5	5.0	167	1.37	1.3	<0.5	0.9	22	<0.1	<0.1	<0.1	34	0.12	0.052	5	
RTH14-173	Soil	0.4	9.4	4.0	37	<0.1	18.4	5.6	222	1.41	<0.5	<0.5	0.9	23	<0.1	<0.1	0.1	37	0.13	0.020	4	
RTH14-174	Soil	0.5	12.2	4.0	58	<0.1	20.9	6.0	489	1.61	1.2	<0.5	1.0	20	<0.1	<0.1	<0.1	45	0.21	0.096	5	
RTH14-175	Soil	0.2	12.1	3.1	40	<0.1	21.3	5.0	186	1.43	0.6	1.3	1.0	25	<0.1	<0.1	<0.1	39	0.15	0.022	6	
RTH14-176	Soil	0.4	7.1	4.6	73	<0.1	17.6	4.7	451	1.41	1.3	0.8	1.0	10	<0.1	<0.1	<0.1	35	0.07	0.162	3	
RTH14-177	Soil	0.1	11.7	3.7	35	<0.1	30.3	4.3	125	1.37	1.1	0.9	1.1	28	<0.1	<0.1	<0.1	34	0.19	0.022	7	

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.



www.acmelab.com

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

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 12, 2014

Page: 7 of 9

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
RTH14-148	Soil	34	0.72	128	0.124	2	1.72	0.018	0.10	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2	
RTH14-149	Soil	32	0.64	118	0.128	<1	1.30	0.013	0.10	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2	
RTH14-150	Soil	42	0.75	128	0.083	<1	1.66	0.014	0.15	<0.1	0.03	5.2	0.1	<0.05	5	<0.5	<0.2	
RTH14-151	Soil	32	0.57	158	0.080	2	2.14	0.017	0.09	<0.1	0.03	3.2	0.1	<0.05	7	<0.5	<0.2	
RTH14-152	Soil	33	0.71	118	0.112	3	1.32	0.014	0.09	<0.1	0.02	4.2	<0.1	<0.05	4	0.7	<0.2	
RTH14-153	Soil	19	0.30	98	0.070	<1	1.23	0.020	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2	
RTH14-154	Soil	21	0.33	128	0.090	1	1.93	0.021	0.06	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2	
RTH14-155	Soil	17	0.25	130	0.081	1	1.47	0.028	0.05	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2	
RTH14-156	Soil	17	0.24	134	0.073	2	1.52	0.022	0.05	<0.1	0.05	2.0	<0.1	<0.05	5	<0.5	<0.2	
RTH14-157	Soil	34	0.60	100	0.089	2	1.38	0.012	0.11	<0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2	
RTH14-158	Soil	18	0.32	169	0.084	3	1.33	0.016	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2	
RTH14-159	Soil	18	0.48	142	0.069	3	1.74	0.016	0.07	<0.1	0.03	2.6	<0.1	0.05	6	<0.5	<0.2	
RTH14-160	Soil	35	0.51	172	0.095	2	2.05	0.021	0.11	<0.1	0.05	6.3	<0.1	<0.05	6	<0.5	<0.2	
RTH14-161	Soil	20	0.32	94	0.083	2	1.48	0.017	0.05	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2	
RTH14-162	Soil	26	0.41	125	0.107	2	1.84	0.016	0.08	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2	
RTH14-163	Soil	29	0.49	140	0.101	<1	1.89	0.018	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2	
RTH14-164	Soil	19	0.18	83	0.066	1	1.18	0.028	0.03	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2	
RTH14-165	Soil	23	0.19	104	0.078	1	1.64	0.023	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2	
RTH14-166	Soil	35	0.38	121	0.078	1	1.52	0.025	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2	
RTH14-167	Soil	27	0.26	94	0.079	2	1.49	0.025	0.04	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2	
RTH14-168	Soil	41	0.49	111	0.092	<1	1.33	0.024	0.06	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2	
RTH14-169	Soil	32	0.35	93	0.092	2	1.56	0.028	0.04	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2	
RTH14-170	Soil	36	0.39	109	0.088	<1	2.00	0.032	0.06	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2	
RTH14-171	Soil	36	0.42	82	0.093	<1	1.24	0.023	0.06	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2	
RTH14-172	Soil	23	0.25	116	0.074	2	1.35	0.023	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2	
RTH14-173	Soil	27	0.27	89	0.087	<1	1.37	0.019	0.04	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2	
RTH14-174	Soil	21	0.32	86	0.077	<1	1.39	0.017	0.06	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2	
RTH14-175	Soil	31	0.31	79	0.081	1	1.12	0.019	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2	
RTH14-176	Soil	15	0.17	100	0.076	<1	1.56	0.017	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2	
RTH14-177	Soil	27	0.32	112	0.076	<1	1.22	0.025	0.06	<0.1	0.01	2.2	<0.1	<0.05	4	<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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

**Page:** 8 of 9

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method Analyte	Unit	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
RTH14-178	Soil	0.3	19.7	3.3	39	<0.1	21.5	5.4	247	1.58	1.1	2.7	1.1	36	<0.1	<0.1	0.1	41	0.26	0.021	12
RTH14-179	Soil	0.3	7.0	3.6	31	<0.1	12.4	4.1	164	1.24	1.3	1.6	1.0	14	<0.1	<0.1	<0.1	28	0.14	0.095	3
RTH14-180	Soil	0.3	9.9	3.4	45	0.1	17.9	4.7	247	1.35	0.8	2.5	1.2	18	<0.1	<0.1	<0.1	30	0.17	0.068	4
RTH14-180B	Rock Pulp	5.7	50.5	4.5	46	0.1	33.4	9.3	516	2.98	4.6	2.7	1.2	50	0.2	0.6	<0.1	65	1.16	0.057	5
RTH14-181	Soil	0.5	9.6	4.2	39	<0.1	12.6	5.6	223	1.42	1.4	3.2	0.9	21	<0.1	<0.1	<0.1	28	0.19	0.069	3
RTH14-182	Soil	0.5	14.6	4.1	52	0.1	19.5	5.5	365	1.48	2.6	2.5	1.5	18	<0.1	0.1	0.1	34	0.16	0.142	5
RTH14-183	Soil	0.1	13.1	3.4	32	<0.1	16.5	2.8	208	1.18	0.8	2.5	0.8	22	<0.1	<0.1	<0.1	25	0.17	0.021	6
RTH14-184	Soil	0.6	22.5	5.3	67	<0.1	26.9	8.1	320	2.12	2.0	2.2	1.8	26	<0.1	0.2	0.1	50	0.18	0.061	7
RTH14-185	Soil	0.4	10.0	4.1	70	<0.1	24.6	5.5	378	1.43	1.0	2.5	1.1	24	<0.1	<0.1	0.1	32	0.21	0.078	4
RTH14-186	Soil	1.0	93.5	7.7	90	1.5	91.5	10.4	555	2.74	3.6	3.7	1.9	81	0.4	0.3	0.2	53	0.73	0.087	84
RTH14-187	Soil	0.4	15.6	4.9	73	0.1	22.5	6.1	227	1.65	1.6	2.9	1.0	36	0.1	0.1	0.1	34	0.38	0.090	7
RTH14-188	Soil	0.9	12.5	5.5	63	<0.1	16.0	5.8	261	1.65	1.8	2.7	1.2	20	<0.1	<0.1	0.1	34	0.21	0.106	4
RTH14-189	Soil	0.8	10.8	4.5	60	0.1	12.3	5.1	273	1.47	1.5	2.0	1.5	23	0.1	<0.1	0.1	33	0.25	0.189	6
RTH14-190	Soil	0.4	59.2	4.6	49	<0.1	36.1	14.2	511	2.82	3.3	2.3	2.5	111	<0.1	0.2	<0.1	72	0.85	0.089	15
RTH14-191	Soil	0.9	73.5	4.8	57	<0.1	36.8	15.8	459	2.90	3.8	3.4	2.2	67	<0.1	0.3	<0.1	80	0.61	0.093	12
RTH14-192	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
RTH14-193	Soil	0.6	39.4	6.5	63	<0.1	31.2	10.4	351	2.33	3.1	7.7	2.5	99	<0.1	0.1	0.1	54	0.53	0.080	10
RTH14-194	Soil	0.8	48.4	6.0	57	<0.1	39.1	13.2	577	2.73	4.1	3.8	2.9	117	0.1	0.3	0.1	64	0.81	0.070	14
RTH14-195	Soil	0.5	37.2	6.1	56	0.1	24.3	9.3	263	1.99	2.0	3.1	2.1	43	<0.1	<0.1	0.1	48	0.34	0.037	9
RTH14-196	Soil	0.4	56.6	5.9	57	0.2	31.5	8.1	353	2.10	2.6	2.8	1.5	105	0.2	0.2	0.1	46	0.87	0.045	9
RTH14-197	Soil	0.9	77.5	4.8	60	0.1	49.1	14.3	397	2.97	4.5	2.7	2.3	52	<0.1	0.4	<0.1	82	0.55	0.031	12
RTH14-198	Soil	0.5	102.2	5.8	54	<0.1	46.0	15.7	522	3.23	5.3	4.9	3.1	109	<0.1	0.3	0.2	72	0.87	0.082	15
RTH14-199	Soil	0.7	42.3	5.6	60	<0.1	36.6	10.9	350	2.63	3.3	2.6	2.4	73	0.1	0.2	0.1	62	0.62	0.070	11
RTH14-200	Soil	0.3	41.1	6.6	51	0.2	29.8	7.9	306	1.98	3.2	<0.5	1.0	37	<0.1	0.1	0.1	42	0.28	0.079	9
RTH14-201	Soil	0.4	23.9	8.5	86	0.1	27.8	10.4	490	2.17	2.1	2.1	1.4	39	0.1	<0.1	0.2	46	0.24	0.218	6
RTH14-202	Soil	0.3	38.2	15.6	223	0.5	30.8	7.3	316	1.80	1.6	9.3	1.0	27	0.5	<0.1	0.1	40	0.30	0.048	7
RTH14-203	Soil	0.7	40.3	9.3	134	0.7	28.6	9.9	255	2.20	4.3	4.8	1.8	30	0.7	0.1	0.1	49	0.23	0.168	8
RTH14-204	Soil	0.6	24.0	12.8	70	0.3	27.4	13.0	352	2.18	3.7	2.5	1.3	26	0.1	0.1	0.5	49	0.19	0.137	6
RTH14-205	Soil	0.9	55.0	25.7	102	0.2	38.5	14.3	536	3.14	7.0	2.4	1.7	41	0.3	0.3	0.1	76	0.36	0.087	11
RTH14-206	Soil	0.7	59.7	9.2	65	0.2	53.6	14.2	569	2.83	5.3	5.8	1.7	67	0.2	0.3	0.1	70	0.59	0.079	14

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.

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
RTH14-178	Soil	28	0.37	98	0.082	2	1.10	0.023	0.07	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-179	Soil	15	0.18	89	0.064	<1	1.11	0.018	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
RTH14-180	Soil	19	0.26	133	0.071	<1	1.20	0.020	0.08	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
RTH14-180B	Rock Pulp	39	0.76	113	0.137	4	1.49	0.092	0.10	0.4	0.03	4.9	<0.1	0.06	5	<0.5	<0.2
RTH14-181	Soil	16	0.25	122	0.074	2	1.21	0.018	0.07	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
RTH14-182	Soil	19	0.25	127	0.071	2	1.38	0.019	0.06	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
RTH14-183	Soil	14	0.18	87	0.059	<1	1.10	0.027	0.06	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
RTH14-184	Soil	36	0.54	134	0.098	<1	1.71	0.017	0.11	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
RTH14-185	Soil	23	0.32	136	0.073	<1	1.39	0.024	0.08	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-186	Soil	45	0.67	245	0.081	5	2.74	0.018	0.24	0.1	0.12	8.8	<0.1	<0.05	7	2.4	<0.2
RTH14-187	Soil	21	0.38	171	0.075	2	1.63	0.021	0.08	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-188	Soil	20	0.31	127	0.083	2	1.80	0.020	0.08	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
RTH14-189	Soil	15	0.27	140	0.078	1	1.72	0.022	0.08	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-190	Soil	61	1.13	142	0.132	2	2.10	0.019	0.07	<0.1	0.03	5.9	<0.1	<0.05	5	0.6	<0.2
RTH14-191	Soil	62	1.04	83	0.140	1	1.91	0.022	0.05	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
RTH14-192	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
RTH14-193	Soil	41	0.71	186	0.079	1	2.30	0.026	0.08	<0.1	0.02	4.9	<0.1	<0.05	7	0.6	<0.2
RTH14-194	Soil	55	0.94	192	0.093	4	2.04	0.028	0.09	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
RTH14-195	Soil	38	0.51	157	0.112	<1	2.40	0.027	0.04	<0.1	0.03	3.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-196	Soil	34	0.63	135	0.097	3	2.15	0.031	0.07	<0.1	0.03	4.4	0.1	<0.05	6	<0.5	<0.2
RTH14-197	Soil	64	0.98	112	0.152	1	1.99	0.021	0.08	<0.1	0.02	6.6	<0.1	<0.05	5	0.7	<0.2
RTH14-198	Soil	70	1.13	176	0.105	2	1.99	0.030	0.07	<0.1	0.02	7.0	0.1	<0.05	5	<0.5	<0.2
RTH14-199	Soil	49	0.79	140	0.103	2	2.04	0.022	0.11	<0.1	0.01	5.2	0.1	<0.05	6	<0.5	<0.2
RTH14-200	Soil	29	0.43	173	0.086	<1	2.14	0.025	0.07	<0.1	0.02	3.0	<0.1	<0.05	6	0.5	<0.2
RTH14-201	Soil	36	0.50	186	0.093	<1	2.06	0.021	0.08	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
RTH14-202	Soil	27	0.39	176	0.068	1	1.77	0.027	0.04	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
RTH14-203	Soil	35	0.52	138	0.091	1	2.19	0.023	0.06	<0.1	0.04	4.2	<0.1	<0.05	6	0.5	<0.2
RTH14-204	Soil	31	0.55	141	0.080	1	1.84	0.018	0.10	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
RTH14-205	Soil	54	0.97	112	0.116	<1	1.83	0.015	0.12	<0.1	0.01	5.5	<0.1	<0.05	6	<0.5	<0.2
RTH14-206	Soil	59	0.89	159	0.095	3	1.97	0.024	0.19	<0.1	0.03	5.7	<0.1	<0.05	6	0.6	<0.2





www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**

2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton

Report Date: August 12, 2014

Page: 9 of 9

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
RTH14-207	Soil	0.7	67.8	5.9	60	0.2	43.7	15.3	624	2.95	4.3	2.8	2.2	61	0.2	0.3	<0.1	75	0.67	0.056	11
RTH14-208	Soil	0.5	22.0	5.1	82	0.1	25.0	7.0	550	1.75	2.1	2.3	1.6	27	0.1	<0.1	0.1	42	0.30	0.208	5
RTH14-209	Soil	0.6	41.0	4.8	67	<0.1	37.4	11.2	274	2.50	2.8	2.2	1.8	36	<0.1	0.1	0.1	61	0.28	0.094	6



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**

2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton

Report Date: August 12, 2014

Page: 9 of 9

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
RTH14-207	Soil	60	0.91	148	0.115	2	2.20	0.027	0.13	<0.1	0.03	7.1	<0.1	<0.05	7	0.6	<0.2
RTH14-208	Soil	34	0.40	121	0.097	<1	2.18	0.025	0.05	<0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
RTH14-209	Soil	44	0.67	127	0.099	<1	2.44	0.021	0.07	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2



www.acmelab.com

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

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 12, 2014

Page: 1 of 2

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN14002376.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
RTH14-001	Soil	0.5	13.2	5.5	25	<0.1	5.0	2.5	106	1.28	1.9	1.3	0.4	11	<0.1	<0.1	0.1	34	0.07	0.079	3
REP RTH14-001	QC	0.5	13.5	6.2	26	<0.1	4.8	2.4	110	1.28	1.7	<0.5	0.5	11	<0.1	<0.1	0.1	34	0.08	0.085	4
RTH14-037	Soil	0.4	16.8	6.7	36	<0.1	16.2	6.7	140	2.08	1.8	<0.5	1.5	29	<0.1	<0.1	0.1	54	0.13	0.103	6
REP RTH14-037	QC	0.4	16.6	6.5	35	<0.1	15.2	6.6	135	2.04	1.9	1.4	1.5	29	<0.1	<0.1	<0.1	54	0.12	0.098	6
RTH14-072	Soil	0.6	19.7	4.1	44	<0.1	25.1	6.5	192	1.93	1.0	2.9	1.1	42	<0.1	0.1	<0.1	50	0.27	0.049	5
REP RTH14-072	QC	0.3	19.2	4.3	41	<0.1	24.0	6.2	184	1.88	1.4	2.5	1.0	41	<0.1	0.1	<0.1	47	0.25	0.048	4
RTH14-107	Soil	1.1	30.6	5.8	94	<0.1	13.2	10.4	1313	2.11	3.9	0.9	0.7	12	0.2	0.1	0.1	45	0.14	0.129	3
REP RTH14-107	QC	1.1	31.4	6.2	97	<0.1	13.5	11.0	1438	2.26	3.8	0.5	0.8	13	0.2	0.2	0.1	47	0.15	0.135	4
RTH14-142	Soil	0.7	19.5	4.7	62	0.1	19.3	5.5	246	1.60	2.0	5.9	1.2	30	<0.1	0.2	<0.1	46	0.21	0.032	7
REP RTH14-142	QC	0.9	19.0	5.0	63	0.1	19.7	5.7	262	1.65	2.2	2.7	1.3	30	<0.1	0.2	<0.1	48	0.22	0.033	7
RTH14-178	Soil	0.3	19.7	3.3	39	<0.1	21.5	5.4	247	1.58	1.1	2.7	1.1	36	<0.1	<0.1	0.1	41	0.26	0.021	12
REP RTH14-178	QC	0.3	20.6	3.3	40	<0.1	21.7	5.4	251	1.63	1.6	3.1	1.1	40	<0.1	0.1	<0.1	42	0.26	0.020	12
Reference Materials																					
STD DS10	Standard	14.1	143.3	150.5	355	1.7	71.1	11.9	841	2.69	43.6	87.2	7.4	71	2.6	8.7	12.7	42	1.00	0.071	18
STD DS10	Standard	15.0	147.1	145.9	359	1.8	73.2	12.0	872	2.60	43.5	66.9	7.5	73	2.2	10.0	12.5	42	1.03	0.069	18
STD DS10	Standard	15.2	153.4	158.6	368	1.9	76.9	12.8	858	2.71	46.9	71.7	8.6	71	2.9	11.0	13.2	45	1.09	0.075	20
STD DS10	Standard	15.6	162.3	164.8	389	2.0	79.3	13.9	923	2.88	48.4	72.8	8.6	75	2.6	9.3	13.6	46	1.09	0.079	20
STD DS10	Standard	15.4	169.9	156.2	396	2.0	80.0	13.7	928	2.93	49.2	78.5	7.8	73	2.8	8.3	11.6	51	1.06	0.081	20
STD DS10	Standard	15.9	160.7	156.3	394	1.9	81.0	13.2	871	2.79	49.7	65.7	8.1	69	2.7	8.5	11.3	49	1.07	0.077	20
STD OXC109	Standard	1.4	35.4	11.3	45	<0.1	74.9	19.2	399	2.92	<0.5	207.2	1.5	159	<0.1	<0.1	<0.1	48	0.70	0.108	13
STD OXC109	Standard	1.5	34.7	10.4	42	<0.1	69.6	17.0	420	2.66	0.7	198.1	1.4	158	<0.1	<0.1	<0.1	46	0.66	0.104	13
STD OXC109	Standard	1.4	36.0	11.5	42	<0.1	73.1	19.2	407	2.87	0.7	197.6	1.6	146	<0.1	<0.1	<0.1	52	0.69	0.108	14
STD OXC109	Standard	1.6	35.8	11.7	43	<0.1	72.2	19.1	401	2.87	<0.5	195.7	1.6	138	<0.1	<0.1	<0.1	48	0.65	0.104	13
STD OXC109	Standard	1.4	36.5	10.7	41	<0.1	76.2	19.6	440	3.02	0.7	191.1	1.4	151	<0.1	<0.1	<0.1	55	0.72	0.103	12
STD OXC109	Standard	1.5	36.7	10.8	43	<0.1	75.8	19.6	393	2.91	1.5	207.3	1.5	150	<0.1	<0.1	<0.1	53	0.72	0.115	13
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5
STD OXC109 Expected		201																			
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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.

# QUALITY CONTROL REPORT

VAN14002376.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
RTH14-001	Soil	12	0.08	55	0.073	1	1.59	0.013	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
REP RTH14-001	QC	13	0.09	58	0.076	3	1.77	0.015	0.03	<0.1	0.03	1.4	<0.1	0.08	7	<0.5	<0.2
RTH14-037	Soil	23	0.27	158	0.112	2	3.67	0.023	0.04	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
REP RTH14-037	QC	22	0.25	156	0.110	2	3.62	0.022	0.04	<0.1	0.02	2.5	<0.1	<0.05	8	<0.5	<0.2
RTH14-072	Soil	44	0.40	161	0.126	2	2.03	0.025	0.09	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
REP RTH14-072	QC	42	0.39	156	0.118	1	1.96	0.023	0.09	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
RTH14-107	Soil	9	0.16	172	0.116	2	1.90	0.026	0.03	0.1	0.07	1.6	<0.1	<0.05	6	<0.5	<0.2
REP RTH14-107	QC	10	0.17	190	0.126	2	1.98	0.027	0.03	<0.1	0.08	1.7	<0.1	<0.05	6	<0.5	<0.2
RTH14-142	Soil	30	0.34	130	0.093	3	1.46	0.023	0.07	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
REP RTH14-142	QC	31	0.34	131	0.090	3	1.46	0.023	0.07	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
RTH14-178	Soil	28	0.37	98	0.082	2	1.10	0.023	0.07	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
REP RTH14-178	QC	29	0.38	101	0.083	<1	1.14	0.024	0.07	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS10	Standard	52	0.77	358	0.079	7	1.01	0.070	0.33	3.3	0.35	3.0	5.2	0.22	5	2.9	4.6
STD DS10	Standard	54	0.75	341	0.076	7	1.03	0.061	0.32	3.1	0.28	2.8	5.0	0.25	4	1.6	5.1
STD DS10	Standard	56	0.79	372	0.084	7	1.08	0.064	0.34	3.7	0.29	2.9	5.2	0.31	5	2.6	5.5
STD DS10	Standard	59	0.81	373	0.088	8	1.09	0.070	0.35	3.2	0.30	3.2	5.2	0.33	5	2.9	5.3
STD DS10	Standard	59	0.78	392	0.096	8	1.09	0.069	0.33	3.3	0.29	3.4	5.4	0.28	5	2.2	5.3
STD DS10	Standard	57	0.77	376	0.093	6	1.10	0.064	0.33	3.2	0.30	3.2	5.1	0.26	5	2.3	5.0
STD OXC109	Standard	58	1.47	58	0.378	2	1.57	0.704	0.43	0.3	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	53	1.25	55	0.361	1	1.44	0.631	0.37	0.2	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	57	1.43	57	0.378	3	1.55	0.668	0.40	0.2	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	57	1.42	56	0.371	<1	1.44	0.659	0.40	0.2	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	62	1.42	59	0.401	1	1.55	0.651	0.41	0.2	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	60	1.55	58	0.374	1	1.62	0.708	0.37	0.2	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		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	<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



www.acmelab.com

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

**Client:** Mammoth Geological Ltd.  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 12, 2014

Page: 2 of 2

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN14002376.1

		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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



www.acmelab.com

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

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 12, 2014

Page: 2 of 2

Part: 2 of 2

## QUALITY CONTROL REPORT

VAN14002376.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2





www.acmelab.com

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

**Client:** **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Submitted By: Tim Henneberry  
Receiving Lab: Canada-Vancouver  
Received: July 24, 2014  
Report Date: August 14, 2014  
Page: 1 of 7

## CERTIFICATE OF ANALYSIS

VAN14002377.1

### CLIENT JOB INFORMATION

Project: Princeton  
Shipment ID:  
P.O. Number  
Number of Samples: 178

### SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	178	Dry at 60C			VAN
SS80	174	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	178	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DISP2	178	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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 14, 2014

**Page:** 2 of 7

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PPJT-001	Soil	0.6	9.5	6.7	42	<0.1	15.6	3.9	159	1.37	1.0	2.0	1.4	22	<0.1	<0.1	0.1	34	0.11	0.075	5
PPJT-002	Soil	0.5	8.2	6.3	47	<0.1	9.7	3.7	289	1.26	1.2	1.7	1.4	25	<0.1	<0.1	0.1	31	0.14	0.088	4
PPJT-003	Soil	0.5	7.7	6.4	41	<0.1	11.9	4.4	438	1.23	0.8	2.0	0.8	23	<0.1	<0.1	0.1	34	0.13	0.080	4
PPJT-004	Soil	0.2	16.5	8.7	37	<0.1	25.4	5.8	194	1.73	0.5	<0.5	1.8	51	<0.1	<0.1	0.1	50	0.17	0.070	7
PPJT-005	Soil	0.7	13.0	7.1	52	<0.1	13.9	4.8	173	1.59	1.4	2.6	1.5	15	<0.1	<0.1	0.1	42	0.07	0.067	5
PPJT-006	Soil	0.6	12.2	7.9	54	<0.1	35.6	5.0	307	1.60	1.1	2.2	1.4	22	<0.1	<0.1	0.1	40	0.11	0.076	5
PPJT-007	Soil	0.6	15.3	8.3	54	<0.1	14.4	5.4	270	1.65	1.4	2.2	1.8	19	<0.1	<0.1	0.1	41	0.10	0.072	6
PPJT-008	Soil	0.7	13.1	7.4	57	<0.1	20.8	4.8	411	1.55	1.6	1.2	1.5	21	<0.1	<0.1	0.1	35	0.12	0.100	6
PPJT-009	Soil	0.6	11.8	6.2	43	<0.1	11.7	5.2	184	1.65	1.7	0.8	2.0	17	<0.1	<0.1	<0.1	41	0.10	0.092	7
PPJT-010	Soil	0.5	9.5	6.1	32	<0.1	8.6	3.6	193	1.44	1.4	<0.5	1.1	17	<0.1	<0.1	0.1	35	0.10	0.075	4
PPJT-011	Soil	0.5	9.7	7.2	38	<0.1	9.4	4.1	497	1.53	1.3	<0.5	1.4	20	<0.1	<0.1	0.1	36	0.14	0.090	4
PPJT-012	Soil	0.5	11.0	6.1	30	<0.1	16.5	4.8	132	1.62	1.2	2.8	1.3	20	<0.1	<0.1	0.1	46	0.10	0.101	4
PPJT-013	Soil	0.5	8.3	6.0	28	<0.1	8.2	3.6	222	1.35	1.3	0.6	0.9	24	<0.1	<0.1	<0.1	36	0.12	0.131	4
PPJT-014	Soil	0.5	6.7	5.2	24	<0.1	7.7	2.1	74	1.41	1.4	<0.5	0.9	12	<0.1	<0.1	0.1	34	0.06	0.124	3
PPJT-015	Soil	0.4	5.5	5.6	21	<0.1	5.9	2.5	289	1.13	1.3	<0.5	0.8	13	<0.1	<0.1	0.1	28	0.07	0.104	3
PPJT-016	Soil	0.4	12.1	6.3	32	<0.1	13.4	5.3	111	1.54	1.4	<0.5	1.8	23	<0.1	<0.1	<0.1	42	0.09	0.084	7
PPJT-017	Soil	0.5	10.9	6.2	34	<0.1	11.1	4.7	127	1.48	1.3	<0.5	1.3	15	<0.1	<0.1	0.1	39	0.06	0.100	5
PPJT-018	Soil	0.4	11.2	6.6	32	<0.1	14.0	4.9	233	1.40	1.3	<0.5	1.0	20	<0.1	<0.1	<0.1	40	0.12	0.088	5
PPJT-019	Soil	0.5	7.5	5.7	24	<0.1	8.9	3.3	89	1.25	1.3	<0.5	1.0	10	<0.1	<0.1	0.1	35	0.07	0.089	3
PPJT-020	Soil	0.3	17.8	7.1	33	<0.1	15.3	6.4	103	1.73	1.2	0.8	2.7	20	<0.1	<0.1	<0.1	54	0.09	0.054	7
PPJT-021	Soil	0.5	9.7	8.2	32	<0.1	9.5	4.1	229	1.25	1.1	4.0	0.6	21	<0.1	<0.1	0.1	33	0.09	0.085	4
PPJT-022	Soil	0.4	10.0	7.1	36	<0.1	18.2	4.8	157	1.35	1.2	0.9	1.0	31	<0.1	<0.1	<0.1	38	0.15	0.087	5
PPJT-023	Soil	0.4	13.9	5.9	29	<0.1	17.6	6.1	104	1.77	1.2	0.5	1.4	22	<0.1	<0.1	<0.1	52	0.12	0.095	6
PPJT-024	Soil	0.4	12.2	7.4	29	<0.1	9.3	4.3	160	1.48	1.6	<0.5	0.9	13	<0.1	<0.1	0.1	39	0.07	0.088	4
PPJT-025	Soil	0.2	10.1	3.5	52	<0.1	18.8	3.9	220	1.30	0.8	<0.5	0.9	27	<0.1	<0.1	<0.1	35	0.19	0.022	5
PPJT-026	Soil	0.4	17.5	4.2	65	<0.1	29.8	5.9	166	1.72	1.3	2.3	1.5	33	<0.1	<0.1	<0.1	53	0.21	0.052	8
PPJT-027	Soil	0.2	12.8	4.1	58	0.1	26.4	5.9	190	1.60	1.5	1.0	1.2	34	<0.1	<0.1	<0.1	39	0.23	0.095	7
PPJT-028	Soil	0.4	18.6	4.5	71	0.2	30.3	7.0	214	1.85	1.6	0.6	1.6	37	0.2	<0.1	<0.1	52	0.27	0.138	7
PPJT-029	Soil	0.2	15.5	3.4	54	<0.1	17.5	4.8	237	1.41	1.5	1.7	1.0	35	<0.1	<0.1	<0.1	37	0.23	0.029	7
PPJT-030	Soil	1.2	43.5	8.2	121	0.4	40.9	10.5	271	3.37	2.8	1.8	3.1	37	0.3	0.3	0.1	108	0.20	0.060	17

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.

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te		
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2			
PPJT-001	Soil	10	0.10	89	0.108	2	1.94	0.021	0.04	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2		
PPJT-002	Soil	8	0.09	111	0.114	2	2.13	0.027	0.04	<0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2		
PPJT-003	Soil	12	0.10	97	0.086	1	1.56	0.019	0.03	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2		
PPJT-004	Soil	20	0.17	184	0.113	<1	2.53	0.019	0.04	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2		
PPJT-005	Soil	10	0.10	99	0.117	<1	2.76	0.018	0.03	<0.1	0.04	1.9	<0.1	<0.05	9	<0.5	<0.2		
PPJT-006	Soil	11	0.11	153	0.132	1	2.85	0.020	0.05	<0.1	0.03	1.9	<0.1	<0.05	10	<0.5	<0.2		
PPJT-007	Soil	13	0.13	151	0.138	1	3.31	0.020	0.04	<0.1	0.04	2.1	<0.1	<0.05	10	<0.5	<0.2		
PPJT-008	Soil	12	0.12	149	0.107	2	3.13	0.019	0.06	0.1	0.08	2.3	0.1	<0.05	9	<0.5	<0.2		
PPJT-009	Soil	14	0.13	102	0.117	2	2.87	0.019	0.03	<0.1	0.05	2.8	<0.1	<0.05	8	<0.5	<0.2		
PPJT-010	Soil	10	0.08	79	0.092	2	2.24	0.018	0.03	<0.1	0.05	2.1	<0.1	<0.05	7	<0.5	<0.2		
PPJT-011	Soil	9	0.10	108	0.108	<1	3.00	0.021	0.03	<0.1	0.06	2.0	<0.1	<0.05	9	<0.5	<0.2		
PPJT-012	Soil	21	0.13	89	0.097	<1	2.40	0.019	0.04	<0.1	0.05	2.3	<0.1	<0.05	7	<0.5	<0.2		
PPJT-013	Soil	13	0.08	74	0.085	2	1.86	0.018	0.03	<0.1	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2		
PPJT-014	Soil	8	0.06	42	0.079	1	2.11	0.018	0.02	<0.1	0.06	2.1	<0.1	<0.05	7	<0.5	<0.2		
PPJT-015	Soil	8	0.05	71	0.075	1	1.74	0.018	0.02	<0.1	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2		
PPJT-016	Soil	18	0.15	96	0.094	<1	2.40	0.020	0.03	<0.1	0.04	2.6	<0.1	<0.05	7	<0.5	<0.2		
PPJT-017	Soil	16	0.11	68	0.089	1	2.42	0.018	0.03	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2		
PPJT-018	Soil	17	0.12	90	0.084	1	2.21	0.020	0.03	<0.1	0.05	2.0	<0.1	<0.05	7	<0.5	<0.2		
PPJT-019	Soil	11	0.07	51	0.086	1	2.20	0.017	0.03	<0.1	0.05	1.7	<0.1	<0.05	7	<0.5	<0.2		
PPJT-020	Soil	29	0.18	178	0.105	<1	2.77	0.015	0.04	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2		
PPJT-021	Soil	14	0.10	96	0.074	1	2.12	0.015	0.04	<0.1	0.05	1.5	<0.1	<0.05	7	<0.5	<0.2		
PPJT-022	Soil	17	0.13	125	0.084	1	1.94	0.017	0.05	<0.1	0.07	1.8	<0.1	<0.05	7	<0.5	<0.2		
PPJT-023	Soil	23	0.16	111	0.096	1	2.44	0.018	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2		
PPJT-024	Soil	14	0.13	73	0.083	<1	2.53	0.017	0.04	<0.1	0.05	1.9	<0.1	<0.05	8	<0.5	<0.2		
PPJT-025	Soil	24	0.21	114	0.072	1	1.19	0.023	0.07	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2		
PPJT-026	Soil	35	0.44	167	0.096	<1	1.59	0.027	0.19	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2		
PPJT-027	Soil	29	0.23	179	0.078	1	1.60	0.024	0.08	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2		
PPJT-028	Soil	32	0.43	212	0.090	1	1.72	0.022	0.22	<0.1	0.02	3.7	0.1	<0.05	5	<0.5	<0.2		
PPJT-029	Soil	29	0.30	116	0.074	1	1.32	0.032	0.21	<0.1	<0.01	3.2	0.1	<0.05	4	<0.5	<0.2		
PPJT-030	Soil	58	0.94	236	0.131	1	2.55	0.017	0.77	<0.1	0.02	7.5	0.3	<0.05	8	0.5	<0.2		

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PPJT-031	Soil	1.4	37.6	7.3	115	0.2	38.7	10.7	605	2.69	4.1	2.6	1.9	49	0.7	0.2	<0.1	75	0.38	0.092	14
PPJT-032	Soil	0.4	36.5	6.6	79	0.2	46.7	10.9	503	2.67	1.8	2.3	2.4	59	0.1	0.2	0.1	49	0.43	0.031	20
PPJT-033	Soil	0.3	23.1	4.4	64	<0.1	42.8	7.4	314	2.32	1.4	2.3	1.8	56	<0.1	0.1	<0.1	50	0.39	0.027	13
PPJT-034	Soil	0.5	21.1	5.9	98	<0.1	27.1	7.6	492	2.04	2.1	1.5	1.6	48	0.2	0.1	<0.1	44	0.31	0.039	8
PPJT-035	Soil	3.0	39.7	5.1	77	0.2	35.0	11.7	514	2.26	3.4	1.5	1.5	42	0.3	0.4	<0.1	50	0.37	0.040	10
PPJT-036	Soil	2.5	21.4	4.9	125	0.2	25.3	7.4	967	1.88	2.6	0.7	1.0	34	0.8	0.3	<0.1	45	0.32	0.046	6
PPJT-037	Soil	1.6	12.2	4.3	85	<0.1	21.8	5.5	646	1.58	1.6	0.6	0.9	30	0.2	0.1	<0.1	37	0.29	0.058	4
PPJT-038	Soil	1.2	29.9	5.9	68	0.1	28.0	7.4	493	2.00	1.8	<0.5	1.5	31	0.3	0.3	0.1	42	0.21	0.045	9
PPJT-039	Soil	1.8	23.8	5.2	66	0.1	25.5	8.9	318	2.09	3.5	1.0	1.4	29	0.3	0.3	<0.1	52	0.21	0.083	6
PPJT-040	Soil	0.6	15.9	5.7	77	0.2	26.0	6.3	411	1.68	2.7	2.1	0.9	27	<0.1	<0.1	0.1	37	0.16	0.110	4
PPJT-041	Soil	0.4	17.0	5.1	35	0.1	18.7	4.3	126	1.37	1.6	1.1	0.8	27	<0.1	<0.1	<0.1	34	0.18	0.032	3
PPJT-042	Soil	1.7	28.3	5.3	50	0.4	23.2	7.2	208	1.89	3.6	2.1	1.1	31	0.2	0.2	<0.1	49	0.23	0.077	7
PPJT-043	Soil	1.7	67.5	11.5	94	0.4	45.0	10.6	282	2.48	3.8	0.9	2.3	28	0.3	0.4	0.2	64	0.25	0.080	13
PPJT-044	Soil	2.6	47.1	6.1	115	0.4	32.9	7.7	260	2.05	2.1	2.2	1.2	39	0.7	0.5	0.1	58	0.36	0.020	12
PPJT-045	Soil	1.4	32.2	4.7	124	0.3	37.4	8.4	182	2.14	3.0	9.2	1.5	30	0.4	0.2	<0.1	60	0.24	0.090	6
PPJT-046	Soil	0.8	23.8	5.0	85	0.2	28.7	7.7	176	2.00	2.1	26.7	1.1	30	0.4	0.2	<0.1	49	0.32	0.040	4
PPJT-047	Soil	1.1	25.7	4.7	75	0.2	24.6	8.6	254	1.97	3.0	0.9	1.4	24	0.3	0.2	<0.1	54	0.20	0.111	6
PPJT-048	Soil	2.1	38.9	7.4	75	0.4	35.7	10.3	658	2.24	7.4	1.4	1.5	19	0.3	0.4	0.1	51	0.17	0.093	8
PPJT-049	Soil	0.3	16.3	4.9	39	0.2	18.7	5.0	126	1.58	1.4	0.7	0.8	21	<0.1	<0.1	<0.1	40	0.26	0.023	5
PPJT-050	Soil	1.0	25.8	4.2	48	<0.1	24.5	8.1	205	2.11	2.7	5.0	1.3	31	0.1	0.2	<0.1	67	0.24	0.060	5
PPJT-050B	Rock Pulp	5.5	47.9	3.9	46	<0.1	31.8	9.2	477	2.90	4.3	3.0	1.0	43	0.1	0.5	<0.1	66	1.07	0.055	5
PPJT-051	Soil	0.7	15.6	4.9	58	<0.1	22.2	6.9	158	1.83	2.2	<0.5	1.2	17	0.2	0.1	<0.1	46	0.16	0.117	4
PPJT-052	Soil	0.6	14.1	3.2	32	<0.1	18.6	6.2	199	1.57	0.9	1.8	1.0	31	<0.1	<0.1	<0.1	49	0.21	0.071	5
PPJT-053	Soil	0.6	37.1	5.0	50	<0.1	74.2	10.4	187	2.73	1.7	1.0	2.2	77	<0.1	<0.1	<0.1	76	0.46	0.047	12
PPJT-054	Soil	0.7	38.1	3.7	43	<0.1	44.3	7.9	220	2.38	1.8	31.8	1.8	62	0.1	0.2	<0.1	67	0.39	0.037	13
PPJT-055	Soil	0.9	20.3	3.8	42	0.1	26.0	6.3	226	1.65	1.2	1.0	1.2	37	0.1	<0.1	<0.1	47	0.27	0.035	5
PPJT-056	Soil	7.3	32.1	7.8	190	0.2	29.6	9.1	741	2.41	9.0	1.5	1.5	49	2.7	1.3	0.1	45	0.38	0.050	13
PPJT-057	Soil	8.8	47.6	6.8	198	0.5	31.4	8.5	546	2.52	16.2	3.6	0.4	69	2.7	2.1	<0.1	46	0.61	0.140	12
PPJT-058	Soil	11.3	66.2	6.7	236	0.4	40.9	12.0	444	3.84	17.7	2.9	1.2	43	2.6	2.5	<0.1	67	0.36	0.095	15
PPJT-059	Soil	9.0	99.5	11.1	176	0.6	51.4	16.7	684	4.30	16.3	3.8	1.8	45	1.7	2.5	0.1	84	0.62	0.088	16



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
Report Date: August 14, 2014

Page: 3 of 7

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te		
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2			
PPJT-031	Soil	46	0.57	197	0.098	2	2.03	0.024	0.33	<0.1	0.03	5.7	0.2	<0.05	6	0.6	<0.2		
PPJT-032	Soil	37	0.47	163	0.078	2	1.87	0.024	0.24	<0.1	0.02	5.5	0.2	<0.05	5	<0.5	<0.2		
PPJT-033	Soil	35	0.37	145	0.080	2	1.76	0.033	0.13	<0.1	0.02	4.7	0.2	<0.05	5	<0.5	<0.2		
PPJT-034	Soil	29	0.32	158	0.077	1	1.75	0.020	0.10	<0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2		
PPJT-035	Soil	40	0.40	184	0.083	2	1.74	0.019	0.09	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2		
PPJT-036	Soil	20	0.32	234	0.086	2	1.49	0.017	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2		
PPJT-037	Soil	24	0.25	190	0.077	2	1.38	0.017	0.11	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2		
PPJT-038	Soil	26	0.29	128	0.078	2	1.56	0.018	0.11	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2		
PPJT-039	Soil	34	0.37	161	0.084	1	1.99	0.015	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2		
PPJT-040	Soil	21	0.21	191	0.070	1	2.60	0.018	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2		
PPJT-041	Soil	24	0.23	110	0.072	2	1.51	0.024	0.05	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2		
PPJT-042	Soil	29	0.29	135	0.086	1	1.81	0.017	0.04	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2		
PPJT-043	Soil	39	0.43	187	0.100	2	2.53	0.014	0.07	<0.1	0.03	3.6	0.1	<0.05	6	0.5	<0.2		
PPJT-044	Soil	37	0.38	146	0.087	<1	1.48	0.023	0.04	<0.1	0.03	3.3	<0.1	<0.05	4	0.8	<0.2		
PPJT-045	Soil	35	0.41	162	0.102	1	2.02	0.018	0.05	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2		
PPJT-046	Soil	32	0.30	160	0.097	2	1.96	0.023	0.04	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2		
PPJT-047	Soil	33	0.36	191	0.100	2	1.89	0.017	0.04	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2		
PPJT-048	Soil	30	0.34	182	0.081	1	1.96	0.015	0.04	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2		
PPJT-049	Soil	22	0.22	127	0.082	<1	1.72	0.023	0.03	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2		
PPJT-050	Soil	43	0.44	146	0.102	<1	1.80	0.018	0.06	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2		
PPJT-050B	Rock Pulp	37	0.76	105	0.122	3	1.48	0.088	0.10	0.4	0.03	4.4	<0.1	0.05	5	<0.5	<0.2		
PPJT-051	Soil	25	0.23	110	0.095	1	1.85	0.016	0.05	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2		
PPJT-052	Soil	36	0.22	124	0.086	<1	1.29	0.030	0.06	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2		
PPJT-053	Soil	84	1.22	346	0.112	2	2.28	0.031	0.13	<0.1	0.02	7.9	<0.1	<0.05	6	<0.5	<0.2		
PPJT-054	Soil	62	0.68	145	0.118	1	1.64	0.035	0.08	<0.1	0.02	6.2	<0.1	<0.05	4	<0.5	<0.2		
PPJT-055	Soil	42	0.37	113	0.098	2	1.46	0.029	0.10	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2		
PPJT-056	Soil	30	0.45	234	0.071	2	1.86	0.010	0.17	<0.1	0.03	3.8	0.1	<0.05	5	2.4	<0.2		
PPJT-057	Soil	29	0.48	310	0.037	3	1.60	0.010	0.16	<0.1	0.04	2.4	<0.1	0.05	4	3.1	<0.2		
PPJT-058	Soil	32	0.88	166	0.049	1	1.91	0.008	0.07	<0.1	0.02	4.7	0.2	<0.05	5	3.6	<0.2		
PPJT-059	Soil	61	1.00	188	0.098	2	2.64	0.008	0.14	<0.1	0.09	7.4	0.1	<0.05	6	2.2	<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.

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method Analyte	Unit	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PPJT-060	Soil	5.5	68.3	5.7	220	0.4	41.1	13.6	449	3.64	10.6	3.0	0.8	44	2.6	1.2	<0.1	74	0.35	0.124	11
PPJT-061	Soil	5.6	72.7	6.2	158	0.4	46.9	13.5	586	3.64	11.3	1.6	1.3	56	1.7	1.5	<0.1	71	0.44	0.088	14
PPJT-062	Soil	3.7	64.9	6.0	133	0.3	42.0	16.8	598	3.40	10.0	1.0	1.3	48	1.4	0.8	<0.1	68	0.36	0.094	11
PPJT-063	Soil	3.3	64.3	5.6	123	0.3	45.4	14.7	593	3.41	8.3	2.1	1.3	53	1.1	0.8	<0.1	71	0.43	0.080	13
PPJT-064	Soil	4.2	100.8	5.5	116	0.2	56.3	19.1	620	4.15	10.8	2.0	2.0	47	0.7	1.0	<0.1	84	0.47	0.062	14
PPJT-065	Soil	2.4	53.6	4.5	115	0.3	31.4	14.1	606	2.52	7.3	4.1	1.5	54	1.8	0.5	<0.1	53	0.66	0.131	8
PPJT-066	Soil	2.3	136.8	8.5	113	0.2	52.3	28.2	541	4.36	34.5	28.1	3.1	22	0.3	1.0	0.1	81	0.24	0.150	11
PPJT-067	Soil	1.2	72.3	7.9	124	0.2	37.4	21.7	809	3.12	22.4	1.4	2.2	21	0.4	0.6	0.1	55	0.29	0.262	9
PPJT-068	Soil	1.2	55.6	6.0	92	0.2	25.8	13.3	646	2.32	24.2	1.8	1.9	19	0.3	0.5	<0.1	44	0.27	0.107	9
PPJT-069	Soil	1.5	48.1	5.2	101	0.3	35.9	11.8	477	2.94	12.0	2.2	1.8	30	0.3	0.6	<0.1	63	0.30	0.086	8
PPJT-070	Soil	1.1	45.4	5.1	121	0.3	24.1	12.0	574	2.50	5.9	1.2	1.5	22	0.4	0.4	<0.1	54	0.22	0.138	5
PPJT-071	Soil	1.6	74.9	5.8	97	0.2	30.7	15.5	481	3.25	8.6	4.3	1.7	34	0.3	0.6	<0.1	73	0.37	0.100	7
PPJT-072	Soil	1.4	101.5	7.1	83	0.2	29.4	17.8	540	4.14	13.9	2.6	1.8	41	0.3	0.7	0.1	98	0.42	0.066	14
PPJT-073	Soil	1.4	52.2	6.3	107	0.3	28.7	14.9	859	2.89	9.4	1.5	1.1	40	0.3	0.4	0.1	50	0.36	0.120	11
PPJT-074	Soil	1.6	112.3	9.6	109	0.1	30.4	27.3	1085	3.97	7.9	1.7	1.6	36	0.4	0.6	0.1	70	0.35	0.111	13
PPJT-075	Soil	1.1	181.6	8.7	88	0.2	24.8	30.8	636	3.84	66.8	2.9	2.3	31	0.3	0.6	0.2	51	0.39	0.158	13
PPJT-076	Soil	3.0	121.0	6.0	183	<0.1	140.4	45.4	713	5.29	31.8	<0.5	2.6	21	2.3	0.8	0.1	87	0.25	0.078	10
PPJT-077	Soil	3.2	195.1	6.0	77	<0.1	104.6	38.6	1069	5.81	34.9	2.2	2.5	35	0.5	0.8	0.1	90	0.38	0.063	17
PPJT-078	Soil	3.2	180.5	6.4	86	<0.1	101.5	39.5	1507	6.34	11.6	2.3	2.3	43	0.6	1.4	<0.1	84	1.20	0.055	14
PPJT-079	Soil	30.4	396.9	26.5	75	0.4	87.4	50.0	3023	31.46	59.3	43.5	1.0	24	1.4	5.1	0.1	83	0.48	0.089	10
PPJT-080	Soil	2.9	111.9	6.4	77	<0.1	125.5	40.3	930	7.34	7.3	1.8	2.3	28	0.4	0.7	0.1	59	0.40	0.075	21
PPJT-081	Soil	2.3	124.3	7.0	64	0.1	105.5	37.1	619	5.37	2.7	4.1	2.7	24	0.4	0.4	0.1	60	0.39	0.098	12
PPJT-082	Soil	7.9	183.5	4.0	1045	0.7	236.6	33.7	1757	8.43	27.6	4.0	2.8	37	19.7	1.5	<0.1	120	0.47	0.064	23
PPJT-083	Soil	1.7	61.7	6.4	71	0.2	37.1	14.7	601	2.80	4.6	1.0	1.8	45	0.2	0.4	<0.1	74	0.55	0.062	13
PPJT-084	Soil	0.9	38.5	3.7	46	<0.1	21.8	9.6	315	2.21	3.4	2.1	1.3	32	0.1	0.2	0.1	58	0.31	0.074	7
PPJT-085	Soil	0.8	46.6	4.1	64	<0.1	31.5	10.7	294	2.54	3.3	3.9	1.5	35	0.2	0.3	<0.1	64	0.32	0.067	7
PPJT-086	Soil	0.7	66.7	5.0	89	0.3	26.4	10.2	487	2.27	4.9	2.6	1.7	32	0.3	0.2	<0.1	39	0.58	0.031	9
PPJT-087	Soil	2.0	50.0	4.6	87	0.3	28.7	12.4	407	2.46	5.1	<0.5	1.5	24	0.3	0.3	<0.1	49	0.25	0.076	7
PPJT-088	Soil	1.3	54.4	4.6	102	0.2	26.6	12.7	820	2.35	5.4	<0.5	1.4	44	0.5	0.3	<0.1	44	0.50	0.158	8
PPJT-089	Soil	2.8	113.2	5.2	95	0.3	34.6	18.7	668	4.21	13.7	4.6	1.7	48	0.5	0.9	<0.1	80	0.69	0.066	14





www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
Report Date: August 14, 2014

Page: 4 of 7

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PPJT-060	Soil	41	0.79	241	0.103	1	2.58	0.009	0.08	<0.1	0.01	4.0	<0.1	<0.05	6	1.7	<0.2
PPJT-061	Soil	50	0.82	194	0.101	1	2.21	0.010	0.07	<0.1	0.03	6.1	<0.1	<0.05	5	1.8	<0.2
PPJT-062	Soil	49	0.87	220	0.128	1	2.76	0.010	0.11	<0.1	0.02	5.1	<0.1	<0.05	6	1.2	<0.2
PPJT-063	Soil	57	0.75	242	0.128	2	2.52	0.011	0.09	<0.1	0.02	6.4	<0.1	<0.05	6	0.8	<0.2
PPJT-064	Soil	79	1.15	283	0.157	1	2.39	0.008	0.08	<0.1	0.02	8.3	<0.1	<0.05	5	1.0	<0.2
PPJT-065	Soil	40	0.61	290	0.108	3	1.76	0.012	0.11	<0.1	0.01	4.0	<0.1	<0.05	4	0.7	<0.2
PPJT-066	Soil	48	0.95	307	0.138	2	3.22	0.010	0.09	0.1	0.02	5.9	<0.1	<0.05	7	0.7	<0.2
PPJT-067	Soil	27	0.53	231	0.118	2	3.30	0.019	0.05	0.1	0.04	3.9	<0.1	<0.05	8	<0.5	<0.2
PPJT-068	Soil	23	0.43	230	0.100	2	2.24	0.020	0.05	<0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2
PPJT-069	Soil	41	0.79	511	0.118	1	2.20	0.015	0.09	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PPJT-070	Soil	23	0.48	293	0.099	2	2.17	0.018	0.07	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
PPJT-071	Soil	39	0.82	283	0.132	1	2.31	0.012	0.07	<0.1	<0.01	4.3	<0.1	<0.05	6	0.7	<0.2
PPJT-072	Soil	46	0.98	161	0.188	2	2.83	0.010	0.09	<0.1	0.02	7.5	<0.1	<0.05	8	<0.5	<0.2
PPJT-073	Soil	28	0.55	216	0.110	1	2.50	0.017	0.09	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
PPJT-074	Soil	41	0.77	243	0.136	1	2.97	0.013	0.07	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
PPJT-075	Soil	16	0.51	147	0.127	2	3.40	0.024	0.06	0.1	0.03	4.4	<0.1	<0.05	7	0.5	<0.2
PPJT-076	Soil	99	1.46	577	0.142	1	2.87	0.015	0.03	0.1	0.02	6.9	<0.1	<0.05	7	<0.5	<0.2
PPJT-077	Soil	92	1.44	306	0.141	<1	2.42	0.012	0.04	0.1	0.02	11.8	<0.1	<0.05	5	1.2	<0.2
PPJT-078	Soil	108	1.69	1011	0.133	1	2.79	0.015	0.05	<0.1	0.04	13.5	<0.1	<0.05	6	<0.5	<0.2
PPJT-079	Soil	49	0.33	2482	0.052	<1	0.89	0.003	0.01	<0.1	0.12	6.3	0.2	<0.05	2	0.9	<0.2
PPJT-080	Soil	62	1.07	889	0.120	1	1.87	0.012	0.03	0.1	0.03	7.4	<0.1	<0.05	4	<0.5	<0.2
PPJT-081	Soil	42	0.71	204	0.157	<1	2.78	0.024	0.03	<0.1	0.04	6.0	<0.1	<0.05	6	<0.5	<0.2
PPJT-082	Soil	200	2.65	237	0.176	<1	3.46	0.007	0.03	<0.1	0.06	19.0	<0.1	<0.05	7	1.3	<0.2
PPJT-083	Soil	63	0.71	247	0.164	1	2.20	0.020	0.05	<0.1	0.03	6.1	<0.1	<0.05	6	0.8	<0.2
PPJT-084	Soil	41	0.56	154	0.141	<1	1.72	0.017	0.04	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PPJT-085	Soil	50	0.69	163	0.134	<1	1.89	0.015	0.06	<0.1	<0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PPJT-086	Soil	23	0.38	126	0.122	3	2.08	0.031	0.04	<0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
PPJT-087	Soil	31	0.57	229	0.129	<1	1.98	0.018	0.06	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PPJT-088	Soil	30	0.53	350	0.102	1	1.87	0.017	0.11	<0.1	0.02	3.9	<0.1	<0.05	5	<0.5	<0.2
PPJT-089	Soil	57	0.95	227	0.170	<1	2.39	0.014	0.08	<0.1	0.02	7.4	<0.1	<0.05	6	0.9	<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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 14, 2014

**Page:** 5 of 7

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PPJT-090	Soil	2.2	111.1	5.1	75	0.1	39.0	17.5	653	4.11	16.5	14.1	1.4	44	0.2	0.8	<0.1	89	0.56	0.055	11
PPJT-090B	Rock Pulp	5.8	50.2	3.9	46	0.1	32.3	9.5	497	2.94	4.6	1.5	1.0	50	0.1	0.6	<0.1	65	1.12	0.057	5
PPJT-091	Soil	1.5	74.1	5.2	81	0.2	31.1	16.1	592	3.00	9.7	<0.5	0.6	40	0.6	0.5	<0.1	61	0.50	0.130	11
PPJT-092	Soil	2.9	117.0	5.5	96	0.2	40.0	17.6	680	4.02	17.7	22.8	1.2	47	0.6	0.8	<0.1	79	0.61	0.089	15
PPJT-093	Soil	4.2	105.4	7.3	125	0.2	43.8	19.1	922	4.28	11.3	3.3	1.8	54	0.8	1.0	<0.1	86	0.54	0.079	15
PPJT-094	Soil	3.1	67.7	4.9	100	0.2	32.2	17.6	744	3.94	13.9	1.1	1.0	51	1.0	0.6	<0.1	82	0.48	0.093	13
PPJT-095	Soil	8.1	109.2	7.3	192	0.5	46.3	21.5	999	4.37	14.4	4.4	1.7	56	2.1	1.7	<0.1	78	0.53	0.104	14
PPJT-096	Soil	3.1	46.3	4.9	85	0.4	24.9	8.7	347	2.50	4.5	1.2	1.7	36	0.3	0.8	<0.1	57	0.28	0.035	10
PPJT-097	Soil	5.3	48.2	6.3	143	0.3	31.3	9.4	333	2.48	5.5	1.6	2.2	41	0.8	0.9	0.1	48	0.26	0.051	12
PPJT-098	Soil	3.8	45.9	6.8	165	0.3	34.7	10.0	468	2.45	7.4	1.7	1.9	36	1.0	0.6	0.1	48	0.26	0.168	9
PPJT-099	Soil	2.4	23.7	5.3	158	0.2	24.0	7.0	454	1.79	3.5	0.6	1.4	29	0.7	0.3	0.1	38	0.21	0.109	6
PPJT-100	Soil	2.7	34.2	5.1	174	0.2	31.5	8.1	397	1.85	3.6	<0.5	1.5	30	1.0	0.3	<0.1	40	0.21	0.114	8
PPJT-101	Soil	3.0	39.4	6.5	129	0.2	30.0	9.0	330	2.48	5.2	0.6	1.7	40	0.5	0.6	0.1	50	0.27	0.056	8
PPJT-102	Soil	1.7	13.7	3.8	201	0.1	14.9	4.5	526	1.44	2.1	<0.5	0.9	18	0.8	0.2	<0.1	31	0.11	0.117	4
PPJT-103	Soil	4.4	43.1	7.2	201	0.4	25.5	8.0	1113	1.96	6.1	2.2	1.4	71	2.3	0.6	0.1	40	0.52	0.149	8
PPJT-104	Soil	2.0	38.5	4.4	57	0.1	25.3	9.0	293	2.44	4.1	<0.5	1.9	43	0.3	0.4	<0.1	65	0.37	0.032	10
PPJT-105	Soil	1.2	28.6	4.5	72	0.2	25.1	9.1	268	2.23	2.8	1.9	1.6	40	0.2	0.2	<0.1	55	0.33	0.091	8
PPJT-106	Soil	2.1	44.5	4.6	59	0.1	30.4	9.7	429	2.39	4.5	5.5	1.7	58	0.2	0.5	<0.1	66	0.44	0.073	13
PPJT-107	Soil	1.1	21.7	3.1	45	<0.1	17.8	5.3	178	1.91	3.8	2.3	1.4	27	<0.1	0.3	0.1	45	0.26	0.040	7
PPJT-108	Soil	1.7	36.1	4.6	68	0.1	25.9	8.8	415	2.60	6.6	3.4	1.6	37	0.2	0.6	<0.1	57	0.34	0.044	11
PPJT-109	Soil	0.8	31.7	4.8	64	0.2	22.2	9.0	459	2.17	3.8	2.7	1.5	38	0.2	0.3	<0.1	50	0.36	0.027	10
PPJT-110	Soil	0.9	40.8	5.7	62	0.4	30.3	9.6	425	2.54	4.1	5.5	1.9	53	0.2	0.3	0.1	53	0.42	0.039	13
PPJT-111	Soil	1.6	41.9	4.5	61	0.2	30.9	11.6	467	2.92	5.9	12.1	1.9	52	0.2	0.4	<0.1	77	0.51	0.061	13
PPJT-112	Soil	1.5	29.9	4.3	52	0.1	20.7	7.5	400	2.17	3.4	2.0	1.4	38	0.3	0.4	0.2	51	0.40	0.033	10
PPJT-113	Soil	2.4	43.2	4.1	69	<0.1	28.8	10.0	449	2.70	5.7	1.7	1.8	41	0.2	0.5	<0.1	64	0.41	0.080	13
PPJT-114	Soil	5.8	57.9	5.1	127	0.1	36.5	11.9	641	3.38	8.8	2.6	1.9	51	0.9	1.0	<0.1	66	0.48	0.080	11
PPJT-115	Soil	1.9	48.1	5.5	87	<0.1	39.0	11.7	559	3.61	8.2	3.4	1.8	29	0.2	0.4	<0.1	72	0.30	0.049	12
PPJT-116	Soil	2.3	55.6	5.0	101	<0.1	42.1	10.0	329	3.71	8.8	3.0	2.1	39	0.3	0.6	<0.1	63	0.37	0.049	14
PPJT-117	Soil	1.1	31.3	3.8	65	<0.1	25.7	8.1	283	2.58	3.9	1.4	1.4	35	<0.1	0.3	<0.1	54	0.35	0.037	8
PPJT-118	Soil	1.8	47.0	4.7	90	<0.1	34.5	9.2	356	3.20	6.8	2.2	2.0	44	0.3	0.3	<0.1	67	0.46	0.073	13

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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
Report Date: August 14, 2014

Page: 5 of 7

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
PPJT-090	Soil	68	1.03	213	0.184	<1	2.39	0.011	0.08	<0.1	0.01	7.6	<0.1	<0.05	6	0.7	<0.2	
PPJT-090B	Rock Pulp	37	0.78	108	0.139	2	1.49	0.087	0.10	0.4	0.03	4.5	<0.1	0.07	5	<0.5	<0.2	
PPJT-091	Soil	40	0.68	223	0.105	<1	2.33	0.015	0.08	<0.1	0.02	3.8	<0.1	0.07	6	<0.5	<0.2	
PPJT-092	Soil	60	1.08	231	0.150	1	2.47	0.011	0.07	<0.1	0.02	6.9	<0.1	<0.05	6	0.8	<0.2	
PPJT-093	Soil	58	1.00	203	0.168	<1	2.54	0.010	0.14	<0.1	0.03	8.7	<0.1	<0.05	6	<0.5	<0.2	
PPJT-094	Soil	49	0.92	251	0.146	1	2.31	0.011	0.15	<0.1	0.02	5.5	<0.1	<0.05	6	0.7	<0.2	
PPJT-095	Soil	49	1.11	209	0.142	1	2.36	0.009	0.15	<0.1	0.07	7.1	<0.1	<0.05	5	1.7	<0.2	
PPJT-096	Soil	42	0.57	114	0.104	<1	1.39	0.019	0.06	<0.1	0.04	4.6	<0.1	<0.05	4	0.9	<0.2	
PPJT-097	Soil	30	0.45	235	0.095	<1	1.80	0.019	0.09	<0.1	0.02	4.0	<0.1	<0.05	5	0.9	<0.2	
PPJT-098	Soil	30	0.51	240	0.096	1	2.20	0.019	0.08	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2	
PPJT-099	Soil	22	0.35	230	0.093	<1	1.93	0.021	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2	
PPJT-100	Soil	21	0.33	247	0.084	<1	1.92	0.022	0.05	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2	
PPJT-101	Soil	31	0.52	196	0.112	1	2.22	0.016	0.07	<0.1	0.02	3.0	<0.1	<0.05	6	0.6	<0.2	
PPJT-102	Soil	13	0.21	203	0.073	<1	1.33	0.021	0.05	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2	
PPJT-103	Soil	23	0.33	421	0.076	1	1.71	0.018	0.07	<0.1	0.06	2.9	<0.1	<0.05	5	<0.5	<0.2	
PPJT-104	Soil	49	0.55	118	0.121	1	1.42	0.024	0.10	<0.1	0.02	5.1	<0.1	<0.05	4	0.7	<0.2	
PPJT-105	Soil	41	0.52	116	0.103	<1	1.76	0.020	0.14	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2	
PPJT-106	Soil	53	0.61	158	0.098	<1	1.38	0.031	0.06	<0.1	0.02	5.1	<0.1	<0.05	4	<0.5	<0.2	
PPJT-107	Soil	34	0.38	93	0.071	<1	0.89	0.022	0.05	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2	
PPJT-108	Soil	43	0.56	123	0.080	1	1.25	0.025	0.10	<0.1	0.03	5.2	<0.1	<0.05	4	<0.5	<0.2	
PPJT-109	Soil	38	0.45	135	0.086	1	1.47	0.030	0.09	<0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2	
PPJT-110	Soil	45	0.58	145	0.087	1	1.81	0.036	0.10	<0.1	0.04	6.4	0.1	<0.05	5	<0.5	<0.2	
PPJT-111	Soil	60	0.66	130	0.095	1	1.50	0.034	0.08	<0.1	0.03	6.9	<0.1	<0.05	4	<0.5	<0.2	
PPJT-112	Soil	37	0.38	130	0.097	1	1.28	0.030	0.06	<0.1	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2	
PPJT-113	Soil	44	0.72	132	0.088	<1	1.42	0.022	0.10	<0.1	0.02	5.8	<0.1	<0.05	4	0.8	<0.2	
PPJT-114	Soil	41	0.77	171	0.077	1	1.48	0.024	0.10	<0.1	0.04	5.6	<0.1	<0.05	4	1.5	<0.2	
PPJT-115	Soil	49	0.85	132	0.089	1	1.56	0.011	0.20	<0.1	0.01	5.8	0.2	<0.05	5	0.7	<0.2	
PPJT-116	Soil	46	0.85	123	0.085	<1	1.51	0.011	0.16	<0.1	0.02	6.1	0.2	<0.05	5	0.9	<0.2	
PPJT-117	Soil	40	0.71	109	0.113	<1	1.38	0.018	0.09	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2	
PPJT-118	Soil	49	0.86	123	0.089	1	1.74	0.016	0.12	<0.1	0.02	6.5	<0.1	<0.05	5	0.6	<0.2	



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 14, 2014

**Page:** 6 of 7

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method Analyte	Unit	AQ201	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1		
PPJT-119	Soil	1.0	38.1	5.4	83	0.2	36.1	7.9	214	2.63	4.2	<0.5	1.6	24	0.1	0.1	0.1	45	0.24	0.183	8	
PPJT-120	Soil	3.7	49.1	8.0	112	<0.1	24.0	20.1	1671	5.33	2.5	0.9	1.9	36	0.1	0.2	<0.1	103	0.61	0.134	14	
PPJT-121	Soil	1.0	42.2	6.3	107	0.1	44.5	10.9	308	3.26	5.3	1.5	2.1	25	0.1	0.4	0.1	58	0.23	0.093	10	
PPJT-122	Soil	1.1	43.6	5.6	81	0.1	36.1	10.9	413	2.99	4.8	4.8	1.8	26	0.1	0.2	<0.1	62	0.28	0.080	11	
PPJT-123	Soil	1.6	54.6	5.0	81	<0.1	41.1	13.1	412	3.54	7.9	2.1	2.0	40	0.1	0.3	<0.1	81	0.40	0.050	13	
PPJT-124	Soil	1.7	51.2	5.0	80	<0.1	36.3	12.5	437	3.24	6.5	2.4	2.0	40	0.1	0.3	<0.1	77	0.40	0.061	13	
PPJT-125	Soil	0.7	26.3	5.2	97	0.2	26.7	6.9	235	2.23	3.7	1.1	2.1	17	0.2	0.1	0.1	40	0.16	0.164	9	
PPJT-126	Soil	1.7	41.0	4.7	85	0.3	35.4	9.9	303	3.06	4.7	2.0	1.7	29	0.1	0.3	<0.1	69	0.30	0.032	11	
PPJT-127	Soil	4.8	79.0	5.8	167	0.1	43.4	12.2	398	4.75	14.6	5.7	2.5	43	0.6	0.7	0.1	97	0.51	0.062	19	
PPJT-128	Soil	1.4	18.5	7.5	86	<0.1	16.8	6.7	220	2.78	2.6	<0.5	1.8	25	<0.1	<0.1	<0.1	44	0.20	0.070	11	
PPJT-129	Soil	0.9	23.9	6.0	96	<0.1	23.4	7.6	291	2.53	2.4	3.8	1.3	23	<0.1	0.1	0.1	48	0.24	0.044	9	
PPJT-130	Soil	1.2	25.9	4.1	87	<0.1	22.5	8.2	269	2.28	2.7	<0.5	1.1	24	0.3	0.2	<0.1	47	0.27	0.090	5	
PPJT-131	Soil	3.0	32.7	4.2	112	<0.1	30.0	8.9	259	2.76	5.4	2.9	1.5	24	0.4	0.3	<0.1	56	0.27	0.051	9	
PPJT-132	Soil	2.4	62.3	4.0	94	0.2	33.7	10.8	366	3.15	6.8	0.9	1.6	33	0.3	0.3	<0.1	66	0.40	0.056	10	
PPJT-133	Soil	0.3	17.6	3.2	46	<0.1	34.0	7.6	273	1.95	1.0	<0.5	1.3	33	<0.1	<0.1	<0.1	51	0.23	0.036	9	
PPJT-134	Soil	0.4	18.3	2.6	38	<0.1	20.8	6.6	159	1.88	1.9	0.7	1.3	34	<0.1	0.1	<0.1	52	0.26	0.050	9	
PPJT-135	Soil	0.2	16.8	2.3	31	<0.1	21.3	5.4	155	1.53	1.3	2.5	1.5	33	<0.1	<0.1	<0.1	45	0.30	0.051	10	
PPJT-136	Soil	0.3	28.4	2.8	42	<0.1	37.3	7.5	203	2.17	2.2	2.4	1.9	40	<0.1	0.1	<0.1	58	0.40	0.066	17	
PPJT-137	Soil	0.3	13.5	3.6	39	<0.1	26.4	5.1	205	1.45	0.8	<0.5	0.9	25	<0.1	<0.1	<0.1	35	0.21	0.054	7	
PPJT-138	Soil	0.2	15.2	2.4	28	<0.1	20.3	4.0	118	1.37	1.1	0.5	1.2	29	<0.1	<0.1	<0.1	39	0.25	0.022	7	
PPJT-139	Soil	0.1	15.7	2.9	38	<0.1	19.9	4.1	150	1.55	0.8	<0.5	0.8	25	<0.1	<0.1	<0.1	40	0.20	0.016	5	
PPJT-140	Soil	0.3	42.4	3.6	58	<0.1	61.6	11.6	348	3.18	2.7	2.5	2.4	72	<0.1	0.1	<0.1	82	0.59	0.091	20	
PPJT-140B	Rock Pulp	6.2	52.0	3.8	47	0.1	34.8	9.4	547	3.12	4.6	2.0	1.0	46	0.2	0.4	<0.1	77	1.18	0.054	5	
PPJT-141	Soil	0.1	14.3	2.1	24	<0.1	12.8	3.9	123	1.28	1.2	0.8	1.3	27	<0.1	<0.1	<0.1	39	0.31	0.048	8	
PPJT-142	Soil	0.3	30.5	2.7	50	<0.1	12.3	7.3	183	2.44	2.1	0.7	1.6	51	<0.1	<0.1	<0.1	57	0.48	0.086	11	
PPJT-143	Soil	0.5	21.1	2.4	36	<0.1	18.6	5.9	172	1.92	2.2	0.8	1.6	26	<0.1	0.1	<0.1	48	0.28	0.036	8	
PPJT-144	Soil	0.5	17.4	3.2	58	<0.1	19.9	5.5	194	1.54	1.7	1.1	1.2	25	<0.1	0.1	<0.1	39	0.24	0.109	5	
PPJT-145	Soil	0.8	31.1	2.8	46	<0.1	24.6	6.8	204	2.22	3.5	1.0	1.6	27	<0.1	0.2	<0.1	60	0.31	0.050	11	
PPJT-146	Soil	1.0	49.7	3.3	69	<0.1	37.1	13.7	691	3.45	4.7	0.9	2.3	43	<0.1	0.1	<0.1	89	0.60	0.103	15	
PPJT-147	Soil	0.6	32.2	3.2	58	<0.1	30.6	9.3	314	2.57	5.3	<0.5	1.8	35	<0.1	0.1	<0.1	74	0.44	0.068	14	

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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
Report Date: August 14, 2014

Page: 6 of 7

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
PPJT-119	Soil	34	0.46	172	0.081	2	2.56	0.022	0.12	<0.1	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2	
PPJT-120	Soil	28	0.81	231	0.040	3	1.42	0.014	0.23	<0.1	0.02	17.5	0.3	<0.05	6	<0.5	<0.2	
PPJT-121	Soil	42	0.70	142	0.116	1	2.32	0.018	0.14	<0.1	0.02	4.5	0.1	<0.05	7	<0.5	<0.2	
PPJT-122	Soil	45	0.83	134	0.118	<1	2.05	0.016	0.17	<0.1	0.02	4.8	0.1	<0.05	6	<0.5	<0.2	
PPJT-123	Soil	58	1.06	122	0.108	<1	2.10	0.014	0.13	<0.1	0.01	7.0	<0.1	<0.05	6	<0.5	<0.2	
PPJT-124	Soil	51	0.89	113	0.093	<1	1.82	0.012	0.11	<0.1	<0.01	6.2	<0.1	<0.05	6	0.6	<0.2	
PPJT-125	Soil	27	0.43	132	0.101	1	2.52	0.022	0.08	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2	
PPJT-126	Soil	43	0.70	127	0.121	<1	1.57	0.014	0.13	<0.1	0.01	5.4	<0.1	<0.05	5	0.6	<0.2	
PPJT-127	Soil	57	0.72	181	0.047	2	2.50	0.014	0.10	<0.1	0.05	12.8	<0.1	<0.05	7	2.2	<0.2	
PPJT-128	Soil	21	0.41	157	0.041	1	1.95	0.014	0.05	<0.1	0.01	2.5	<0.1	<0.05	7	<0.5	<0.2	
PPJT-129	Soil	32	0.55	138	0.086	<1	2.35	0.016	0.06	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2	
PPJT-130	Soil	36	0.52	138	0.102	1	1.94	0.015	0.06	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2	
PPJT-131	Soil	37	0.57	105	0.081	<1	1.43	0.014	0.09	<0.1	0.01	4.1	<0.1	<0.05	5	1.0	<0.2	
PPJT-132	Soil	50	0.76	91	0.126	1	1.64	0.013	0.11	<0.1	0.02	6.0	<0.1	<0.05	5	0.6	<0.2	
PPJT-133	Soil	52	0.46	100	0.087	<1	1.19	0.024	0.09	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
PPJT-134	Soil	39	0.46	101	0.069	<1	1.00	0.013	0.08	<0.1	<0.01	3.7	<0.1	<0.05	4	<0.5	<0.2	
PPJT-135	Soil	40	0.50	77	0.075	<1	1.00	0.021	0.09	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2	
PPJT-136	Soil	62	0.71	114	0.082	<1	1.34	0.029	0.12	<0.1	<0.01	5.7	<0.1	<0.05	4	<0.5	<0.2	
PPJT-137	Soil	34	0.30	109	0.072	<1	1.35	0.023	0.08	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2	
PPJT-138	Soil	41	0.41	82	0.079	<1	0.97	0.025	0.08	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2	
PPJT-139	Soil	28	0.28	94	0.083	<1	1.29	0.031	0.06	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2	
PPJT-140	Soil	84	0.96	197	0.084	<1	2.11	0.031	0.18	<0.1	0.01	8.6	0.1	<0.05	6	<0.5	<0.2	
PPJT-140B	Rock Pulp	40	0.83	111	0.146	3	1.57	0.085	0.10	0.4	0.02	5.1	<0.1	0.07	5	<0.5	<0.2	
PPJT-141	Soil	29	0.42	85	0.071	<1	0.91	0.021	0.06	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
PPJT-142	Soil	25	0.75	154	0.046	<1	1.51	0.019	0.12	<0.1	<0.01	5.2	<0.1	<0.05	5	<0.5	<0.2	
PPJT-143	Soil	35	0.44	88	0.068	1	1.04	0.019	0.07	<0.1	<0.01	4.2	<0.1	<0.05	3	<0.5	<0.2	
PPJT-144	Soil	23	0.32	155	0.079	1	1.46	0.019	0.08	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2	
PPJT-145	Soil	40	0.53	105	0.080	1	1.15	0.015	0.11	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2	
PPJT-146	Soil	45	0.93	210	0.057	<1	2.45	0.024	0.18	<0.1	0.02	9.7	0.1	<0.05	7	<0.5	<0.2	
PPJT-147	Soil	46	0.67	138	0.078	1	1.65	0.021	0.15	<0.1	0.01	6.3	<0.1	<0.05	6	<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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 14, 2014

**Page:** 7 of 7

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method Analyte	Unit	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
PPJT-148	Soil	1.2	39.3	3.7	64	<0.1	48.2	15.2	581	3.28	9.1	0.6	2.0	51	<0.1	0.1	92	0.64	0.083	16	
PPJT-149	Soil	0.3	30.7	3.7	65	<0.1	21.8	9.5	506	2.70	2.7	1.1	2.1	51	<0.1	0.1	<0.1	75	0.60	0.070	13
PPJT-150	Soil	0.7	19.9	2.6	40	<0.1	19.1	6.0	158	1.89	2.5	2.2	1.4	22	<0.1	0.2	<0.1	48	0.24	0.039	8
PPJT-151	Soil	0.7	34.8	3.5	56	<0.1	32.6	7.8	297	2.52	3.2	2.0	1.9	30	<0.1	0.2	<0.1	57	0.37	0.080	14
PPJT-152	Soil	0.7	34.3	4.4	68	0.1	37.3	9.6	392	2.64	2.7	1.0	1.6	29	<0.1	0.2	<0.1	59	0.27	0.068	13
PPJT-153	Soil	0.7	32.4	3.5	57	<0.1	32.5	7.9	212	2.51	2.9	<0.5	1.7	24	<0.1	0.2	<0.1	58	0.22	0.052	11
PPJT-154	Soil	0.5	62.4	4.0	60	0.1	45.6	14.8	394	3.41	3.6	2.8	1.8	68	0.1	0.2	<0.1	92	0.98	0.036	10
PPJT-155	Soil	0.7	42.6	4.3	75	0.1	40.1	12.5	291	2.85	2.6	1.4	1.6	28	0.1	0.1	<0.1	62	0.40	0.066	5
PPJT-156	Soil	0.6	62.5	5.4	65	0.1	41.5	13.4	502	3.47	3.2	1.8	2.4	63	0.1	0.2	<0.1	82	0.82	0.038	9
PPJT-157	Soil	0.7	59.8	4.3	56	<0.1	34.5	13.1	515	3.28	3.2	8.8	1.8	56	<0.1	0.2	<0.1	87	0.90	0.053	11
PPJT-158	Soil	0.5	46.5	9.4	50	<0.1	33.1	9.8	382	2.39	2.7	8.0	2.8	56	<0.1	0.1	<0.1	42	0.97	0.056	19
PPJT-159	Soil	0.8	25.6	5.0	67	0.1	28.1	9.6	459	2.27	2.8	1.0	1.6	18	<0.1	<0.1	<0.1	49	0.24	0.213	4
PPJT-160	Soil	0.5	48.9	4.3	58	<0.1	34.1	9.4	268	2.68	3.3	1.5	1.6	39	<0.1	0.1	<0.1	59	0.47	0.057	10
PPJT-161	Soil	0.7	47.6	4.8	61	0.1	29.4	10.1	465	2.54	3.0	1.3	1.4	21	0.1	0.1	<0.1	57	0.26	0.133	6
PPJT-162	Soil	1.3	41.2	5.4	73	0.1	34.7	10.0	643	2.71	2.4	1.5	1.4	25	<0.1	0.1	<0.1	59	0.28	0.141	7
PPJT-163	Soil	0.9	57.4	3.4	64	<0.1	35.9	13.0	380	3.04	2.2	2.6	1.5	36	0.1	0.2	<0.1	85	0.52	0.051	10
PPJT-164	Soil	0.7	54.8	3.4	49	<0.1	31.7	12.4	435	2.91	3.5	3.1	1.4	41	<0.1	0.2	<0.1	87	0.52	0.068	10
PPJT-165	Soil	0.6	46.7	4.3	67	0.1	34.9	12.0	392	2.69	3.8	<0.5	1.7	27	<0.1	0.1	0.2	66	0.30	0.165	6
PPJT-166	Soil	0.8	58.0	4.4	71	0.1	33.9	13.1	352	2.95	4.2	2.0	2.1	31	0.1	0.2	0.1	81	0.36	0.084	9
PPJT-167	Soil	0.6	61.7	5.0	72	0.2	30.2	14.8	1229	2.84	4.2	1.1	1.0	35	0.2	0.2	<0.1	77	0.52	0.088	8
PPJT-168	Soil	0.7	80.1	3.7	55	<0.1	37.1	15.7	502	3.40	5.5	1.8	1.3	39	<0.1	0.2	<0.1	96	0.51	0.073	11
PPJT-169	Soil	0.3	16.1	4.3	41	<0.1	13.7	6.7	141	1.59	1.9	<0.5	0.5	28	<0.1	<0.1	<0.1	46	0.62	0.022	3
PPJT-170	Soil	1.0	55.2	4.2	60	<0.1	36.3	13.7	352	3.28	4.0	1.6	1.9	46	<0.1	0.2	<0.1	93	0.47	0.052	9
PPJT-171	Soil	0.8	120.2	5.1	57	<0.1	42.9	20.0	812	3.48	5.3	3.1	1.6	60	0.2	0.3	<0.1	97	0.71	0.098	12
PPJT-172	Soil	0.7	50.8	4.1	60	0.1	26.3	10.0	473	2.26	7.7	1.6	1.2	36	0.2	0.2	<0.1	60	0.68	0.059	9
PPJT-173	Soil	0.6	37.9	4.7	61	<0.1	23.9	9.1	391	2.23	2.5	<0.5	1.8	21	0.1	0.1	<0.1	56	0.25	0.090	8
PPJT-174	Soil	0.5	22.9	4.0	61	<0.1	16.6	6.0	180	1.66	1.5	<0.5	1.3	13	<0.1	<0.1	<0.1	41	0.17	0.185	5
PPJT-174B	Rock Pulp	6.3	51.2	4.0	48	0.1	35.2	9.8	526	3.11	4.1	0.8	1.0	43	0.1	0.4	<0.1	84	1.19	0.053	5



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**

2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton

Report Date: August 14, 2014

Page: 7 of 7

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002377.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PPJT-148	Soil	64	0.99	159	0.061	1	2.03	0.025	0.19	<0.1	0.01	8.8	0.2	<0.05	7	<0.5	<0.2
PPJT-149	Soil	38	0.85	191	0.033	<1	2.04	0.015	0.15	<0.1	0.02	8.6	<0.1	<0.05	7	<0.5	<0.2
PPJT-150	Soil	33	0.44	84	0.077	<1	1.00	0.013	0.09	<0.1	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PPJT-151	Soil	47	0.71	113	0.080	1	1.40	0.017	0.18	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
PPJT-152	Soil	46	0.69	131	0.088	1	1.55	0.017	0.16	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PPJT-153	Soil	44	0.54	97	0.072	<1	1.28	0.013	0.13	<0.1	<0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PPJT-154	Soil	80	1.21	120	0.028	1	2.54	0.029	0.06	<0.1	0.03	9.0	<0.1	<0.05	8	<0.5	<0.2
PPJT-155	Soil	48	0.69	141	0.088	<1	2.32	0.016	0.07	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
PPJT-156	Soil	72	1.01	149	0.085	1	2.60	0.026	0.08	<0.1	0.04	9.3	<0.1	<0.05	7	<0.5	<0.2
PPJT-157	Soil	59	0.97	113	0.072	1	2.29	0.022	0.07	<0.1	0.03	9.0	<0.1	<0.05	6	<0.5	<0.2
PPJT-158	Soil	17	0.39	77	0.002	<1	1.90	0.009	0.04	<0.1	0.15	8.4	0.1	<0.05	5	<0.5	<0.2
PPJT-159	Soil	31	0.36	130	0.072	<1	2.89	0.020	0.06	<0.1	0.03	3.6	<0.1	<0.05	7	<0.5	<0.2
PPJT-160	Soil	44	0.67	136	0.078	<1	2.39	0.016	0.07	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PPJT-161	Soil	44	0.56	123	0.120	1	2.57	0.016	0.05	<0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
PPJT-162	Soil	48	0.58	175	0.100	<1	2.90	0.018	0.06	<0.1	0.03	4.2	<0.1	<0.05	8	<0.5	<0.2
PPJT-163	Soil	70	0.98	120	0.164	2	2.08	0.015	0.09	<0.1	0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
PPJT-164	Soil	56	0.99	96	0.121	1	1.99	0.013	0.06	<0.1	0.02	6.4	<0.1	<0.05	5	<0.5	<0.2
PPJT-165	Soil	62	0.79	175	0.102	1	2.65	0.023	0.10	<0.1	0.02	4.4	<0.1	<0.05	7	<0.5	<0.2
PPJT-166	Soil	53	0.89	171	0.122	<1	2.66	0.025	0.10	<0.1	0.02	6.7	<0.1	<0.05	7	<0.5	<0.2
PPJT-167	Soil	48	0.86	153	0.105	2	2.12	0.020	0.10	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
PPJT-168	Soil	61	1.25	89	0.106	<1	2.24	0.013	0.09	<0.1	0.02	8.0	<0.1	<0.05	5	<0.5	<0.2
PPJT-169	Soil	24	0.29	85	0.084	2	1.68	0.024	0.03	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PPJT-170	Soil	60	0.87	127	0.104	<1	2.14	0.012	0.10	<0.1	<0.01	6.5	<0.1	<0.05	6	<0.5	<0.2
PPJT-171	Soil	65	1.16	90	0.099	1	1.95	0.017	0.07	<0.1	0.02	7.7	<0.1	<0.05	5	<0.5	<0.2
PPJT-172	Soil	59	0.57	92	0.099	2	2.02	0.027	0.07	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PPJT-173	Soil	34	0.44	154	0.098	<1	2.41	0.021	0.06	<0.1	0.01	4.4	<0.1	<0.05	6	<0.5	<0.2
PPJT-174	Soil	23	0.25	92	0.096	1	1.98	0.026	0.04	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PPJT-174B	Rock Pulp	42	0.80	112	0.153	4	1.59	0.089	0.10	0.4	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2





www.acmelab.com

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

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 14, 2014

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN14002377.1

Method	Analyte	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	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
PPJT-004	Soil	0.2	16.5	8.7	37	<0.1	25.4	5.8	194	1.73	0.5	<0.5	1.8	51	<0.1	<0.1	0.1	50	0.17	0.070	7
REP PPJT-004	QC	0.3	16.4	8.5	38	<0.1	24.3	5.9	186	1.71	0.6	0.5	1.8	52	<0.1	<0.1	0.1	47	0.17	0.071	7
PPJT-040	Soil	0.6	15.9	5.7	77	0.2	26.0	6.3	411	1.68	2.7	2.1	0.9	27	<0.1	<0.1	0.1	37	0.16	0.110	4
REP PPJT-040	QC	0.6	15.0	5.6	75	0.2	25.3	6.3	385	1.71	2.6	0.9	0.9	27	<0.1	<0.1	<0.1	39	0.16	0.108	4
PPJT-075	Soil	1.1	181.6	8.7	88	0.2	24.8	30.8	636	3.84	66.8	2.9	2.3	31	0.3	0.6	0.2	51	0.39	0.158	13
REP PPJT-075	QC	1.1	178.7	8.5	85	0.2	24.6	30.7	636	3.82	68.6	1.3	2.1	30	0.2	0.6	0.1	51	0.39	0.160	13
PPJT-110	Soil	0.9	40.8	5.7	62	0.4	30.3	9.6	425	2.54	4.1	5.5	1.9	53	0.2	0.3	0.1	53	0.42	0.039	13
REP PPJT-110	QC	0.9	40.0	5.5	64	0.4	30.0	9.8	431	2.52	4.5	1.9	1.8	53	0.2	0.3	<0.1	54	0.42	0.036	13
PPJT-144	Soil	0.5	17.4	3.2	58	<0.1	19.9	5.5	194	1.54	1.7	1.1	1.2	25	<0.1	0.1	<0.1	39	0.24	0.109	5
REP PPJT-144	QC	0.5	17.8	3.2	61	<0.1	19.4	5.7	198	1.66	1.6	1.6	1.2	25	<0.1	<0.1	<0.1	39	0.25	0.108	5
Reference Materials																					
STD DS10	Standard	15.3	148.2	155.9	371	1.8	73.1	12.7	881	2.83	43.6	112.6	7.7	67	2.5	8.6	11.6	46	1.03	0.079	18
STD DS10	Standard	15.0	150.4	155.5	361	1.8	75.2	13.1	883	2.71	42.5	76.2	7.5	66	2.7	8.5	12.0	48	1.05	0.075	18
STD DS10	Standard	15.7	164.2	148.4	384	1.9	76.3	13.4	921	2.92	46.7	104.5	7.5	74	2.5	9.7	12.6	46	1.06	0.078	18
STD DS10	Standard	15.1	145.2	155.4	358	1.9	77.5	12.0	904	2.86	43.7	76.4	7.2	69	2.3	8.5	11.6	42	1.08	0.075	17
STD DS10	Standard	15.8	148.3	152.9	353	1.8	76.9	13.1	864	2.75	40.2	91.3	6.8	64	2.2	7.5	10.6	47	1.05	0.069	17
STD OXC109	Standard	1.5	33.9	11.4	41	<0.1	74.8	19.3	408	2.86	0.6	212.4	1.5	143	<0.1	<0.1	<0.1	49	0.63	0.111	12
STD OXC109	Standard	1.4	32.9	10.7	41	<0.1	70.1	18.3	402	2.81	0.7	200.9	1.4	135	<0.1	<0.1	<0.1	47	0.69	0.102	12
STD OXC109	Standard	1.5	36.0	10.9	42	<0.1	71.7	19.2	408	2.86	0.6	184.1	1.5	152	<0.1	<0.1	<0.1	48	0.67	0.100	13
STD OXC109	Standard	1.7	39.1	10.7	44	<0.1	78.7	20.3	442	3.08	0.6	193.9	1.4	148	<0.1	<0.1	<0.1	54	0.75	0.108	12
STD OXC109	Standard	1.5	38.3	10.5	44	<0.1	79.4	20.4	427	3.11	0.6	202.9	1.4	147	<0.1	<0.1	<0.1	54	0.76	0.105	12
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5
STD OXC109 Expected																					
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1

# QUALITY CONTROL REPORT

VAN14002377.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
PPJT-004	Soil	20	0.17	184	0.113	<1	2.53	0.019	0.04	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2
REP PPJT-004	QC	19	0.17	184	0.112	<1	2.51	0.019	0.04	<0.1	0.03	2.0	<0.1	<0.05	8	<0.5	<0.2
PPJT-040	Soil	21	0.21	191	0.070	1	2.60	0.018	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
REP PPJT-040	QC	21	0.22	186	0.074	1	2.65	0.019	0.05	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PPJT-075	Soil	16	0.51	147	0.127	2	3.40	0.024	0.06	0.1	0.03	4.4	<0.1	<0.05	7	0.5	<0.2
REP PPJT-075	QC	16	0.48	144	0.126	2	3.24	0.022	0.06	0.1	0.03	4.5	<0.1	<0.05	8	0.7	<0.2
PPJT-110	Soil	45	0.58	145	0.087	1	1.81	0.036	0.10	<0.1	0.04	6.4	0.1	<0.05	5	<0.5	<0.2
REP PPJT-110	QC	46	0.55	148	0.092	1	1.80	0.036	0.10	<0.1	0.04	6.3	0.1	<0.05	5	<0.5	<0.2
PPJT-144	Soil	23	0.32	155	0.079	1	1.46	0.019	0.08	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
REP PPJT-144	QC	23	0.32	159	0.078	2	1.39	0.018	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS10	Standard	55	0.81	356	0.080	7	1.03	0.067	0.34	3.3	0.31	3.1	5.4	0.23	5	2.5	4.9
STD DS10	Standard	57	0.78	366	0.082	7	1.05	0.067	0.33	3.4	0.30	3.1	5.3	0.25	4	2.2	4.6
STD DS10	Standard	56	0.79	354	0.087	6	1.08	0.064	0.32	3.2	0.29	3.0	5.0	0.30	4	2.6	4.4
STD DS10	Standard	54	0.83	353	0.073	7	1.06	0.069	0.34	3.1	0.30	3.0	4.9	0.24	4	2.3	5.0
STD DS10	Standard	56	0.80	343	0.078	6	1.07	0.065	0.32	3.0	0.29	2.9	5.0	0.30	4	2.0	4.9
STD OXC109	Standard	57	1.47	58	0.371	2	1.48	0.700	0.39	0.2	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	55	1.40	54	0.346	2	1.47	0.638	0.37	0.2	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC109	Standard	57	1.36	55	0.386	1	1.44	0.647	0.39	0.2	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	63	1.59	59	0.430	1	1.67	0.684	0.40	0.2	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC109	Standard	64	1.59	58	0.430	2	1.65	0.710	0.42	0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		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	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



www.acmelab.com

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

**Client:** **Mammoth Geological Ltd.**  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Submitted By: Tim Henneberry  
Receiving Lab: Canada-Vancouver  
Received: July 24, 2014  
Report Date: August 13, 2014  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN14002378.1

### CLIENT JOB INFORMATION

Project: Princeton  
Shipment ID:  
P.O. Number  
Number of Samples: 8

### SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	7	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	8	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	8	Warehouse handling / disposition of pulps			VAN
DRRJT	7	Warehouse handling / Disposition of reject			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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Mammoth Geological Ltd.**

2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

Project: Princeton

Report Date: August 13, 2014

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN14002378.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
838451	Rock	1.76	<0.1	2.6	0.5	2	<0.1	1.0	0.5	91	0.23	<0.5	<0.5	<0.1	53	<0.1	<0.1	<0.1	2	1.20	0.002
838452	Rock	0.98	0.9	23.8	8.4	32	<0.1	3.6	7.3	505	2.65	2.5	1.4	1.7	79	<0.1	<0.1	<0.1	51	0.42	0.030
838453	Rock	1.64	1.1	23.2	0.9	15	<0.1	1.9	2.0	155	1.53	6.9	<0.5	0.4	22	<0.1	0.1	<0.1	20	0.19	0.026
838454	Rock	1.52	0.8	70.4	1.1	36	<0.1	42.0	22.6	1003	3.43	1.6	1.5	0.8	94	<0.1	0.2	<0.1	35	10.91	0.088
838455	Rock	1.21	0.9	104.7	1.7	48	<0.1	10.5	13.1	466	3.30	1.2	<0.5	1.8	59	<0.1	0.3	<0.1	54	0.88	0.143
838456	Rock	1.25	2.5	40.1	6.6	127	<0.1	33.0	8.2	200	2.88	1.3	1.7	2.7	8	0.7	<0.1	<0.1	107	0.13	0.050
838457	Rock	1.53	3.6	19.5	84.6	40	0.3	2.4	0.9	43	4.46	5.2	22.4	2.4	61	<0.1	<0.1	1.6	55	0.06	0.037
838457B	Rock Pulp	0.03	5.6	46.4	3.5	42	0.1	32.0	8.9	507	2.88	5.0	1.8	1.0	45	0.1	0.5	<0.1	61	1.13	0.057



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

**Client:** Mammoth Geological Ltd.  
2446 Bidston Road  
Mill Bay BC V0R 2P4 CANADA

**Project:** Princeton  
**Report Date:** August 13, 2014

**Page:** 2 of 2

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

VAN14002378.1

Method	Analyte	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	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
838451	Rock	<1	2	0.04	7	0.004	<1	0.08	0.002	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
838452	Rock	3	17	2.08	147	0.157	2	1.93	0.005	0.12	<0.1	<0.01	3.7	<0.1	0.93	3	<0.5	<0.2
838453	Rock	2	5	0.26	51	0.086	2	0.41	0.020	0.02	<0.1	<0.01	1.6	<0.1	0.12	<1	<0.5	<0.2
838454	Rock	4	78	1.85	140	0.114	<1	1.73	0.008	0.08	<0.1	<0.01	3.3	<0.1	1.34	2	<0.5	<0.2
838455	Rock	9	40	1.20	48	0.260	<1	1.62	0.034	0.12	0.2	<0.01	4.4	<0.1	0.28	3	<0.5	<0.2
838456	Rock	8	36	0.88	85	0.008	1	1.44	0.026	0.22	<0.1	<0.01	2.6	<0.1	0.31	4	2.8	<0.2
838457	Rock	14	19	0.12	291	0.002	1	0.45	0.041	0.29	<0.1	0.03	1.2	<0.1	0.39	5	2.5	1.6
838457B	Rock Pulp	5	36	0.76	109	0.130	3	1.47	0.092	0.10	0.4	0.02	4.6	<0.1	0.06	5	<0.5	<0.2



www.acmelab.com

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

Client: **Mammoth Geological Ltd.**  
 2446 Bidston Road  
 Mill Bay BC V0R 2P4 CANADA

Project: Princeton  
 Report Date: August 13, 2014

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN14002378.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																				
STD DS10	Standard	15.6	149.8	153.5	425	1.9	76.1	12.8	880	2.75	47.7	79.6	7.1	66	3.0	8.7	12.7	43	1.07	0.074
STD OXC109	Standard	1.4	34.1	10.6	40	<0.1	76.2	19.0	410	2.86	0.9	188.7	1.4	135	<0.1	<0.1	<0.1	46	0.63	0.105
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073
STD OXC109 Expected													201							
BLK	Blank	<0.1	0.1	<0.1	4	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																				
G1	Prep Blank	<0.1	1.2	2.8	47	<0.1	3.7	4.0	549	1.84	<0.5	<0.5	4.6	50	<0.1	<0.1	<0.1	34	0.42	0.072

## QUALITY CONTROL REPORT

VAN14002378.1

Method	Analyte	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	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Reference Materials																		
STD DS10	Standard	18	56	0.78	348	0.080	8	1.05	0.068	0.34	3.3	0.25	2.9	5.0	0.28	5	3.1	4.6
STD OXC109	Standard	13	55	1.42	58	0.365	<1	1.50	0.682	0.41	0.2	<0.01	1.2	<0.1	<0.05	6	<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
Prep Wash																		
G1	Prep Blank	8	6	0.56	217	0.100	<1	0.92	0.068	0.47	<0.1	<0.01	2.4	0.3	<0.05	5	<0.5	<0.2