

**Ministry of Energy, Mines & Petroleum Resources**  
Mining & Minerals Division  
BC Geological Survey

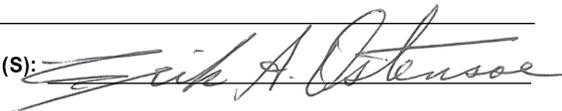
**Assessment Report**  
**Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Technical Report of Diamond Drilling Program

TOTAL COST: 520,237.00

AUTHOR(S): Erik A. Ostensoe, P.Geo

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Mx-1-872

YEAR OF WORK: 2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event No. 5649917

PROPERTY NAME: HAT Property

CLAIM NAME(S) (on which the work was done): 515550, 511709

COMMODITIES SOUGHT: Gold, Copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: \_\_\_\_\_

MINING DIVISION: Atlin

NTS/BCGS: NTS 104-J

LATITUDE: 58 ° 12 ' \_\_\_\_\_ " LONGITUDE: 131 ° 35 ' \_\_\_\_\_ " (at centre of work)

OWNER(S):

1) T. E. Lisle

2) Erik Ostensoe

Doubleview Capital Corp.

MAILING ADDRESS:

880-409 Granville St.

Vancouver, BC, V6C 1T2

OPERATOR(S) [who paid for the work]:

1) Doubleview Capital Corp.

2) \_\_\_\_\_

MAILING ADDRESS:

880-409 Granville St.

Vancouver, BC, V6C 1T2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Gold-Copper alkalic porphyry-type mineralization hosted by Stuhini Group volcanoclastic formation and related diorite/gabbro intrusions; strong chlorite-albite-epidote alteration; zones of strong magnetite-pyrite-chalcopyrite mineralization - size undetermined, attitude - undetermined

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 30372, 31178, 33038, 34654

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>	_____	_____	_____
<b>Photo interpretation</b>	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>	_____	_____	_____
<b>Electromagnetic</b>	_____	_____	_____
<b>Induced Polarization</b>	_____	_____	_____
<b>Radiometric</b>	_____	_____	_____
<b>Seismic</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>Airborne</b>	_____	_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b>	_____	_____	_____
<b>Silt</b>	_____	_____	_____
<b>Rock</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>	5 drill holes; 1960.9m; NQ size	515550, 511709	497,898.00
<b>Non-core</b>	_____	_____	_____
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b>	_____	_____	22,339.00
<b>Petrographic</b>	_____	_____	_____
<b>Mineralographic</b>	_____	_____	_____
<b>Metallurgic</b>	_____	_____	_____
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
<b>Line/grid (kilometres)</b>	_____	_____	_____
<b>Topographic/Photogrammetric (scale, area)</b>	_____	_____	_____
<b>Legal surveys (scale, area)</b>	_____	_____	_____
<b>Road, local access (kilometres)/trail</b>	_____	_____	_____
<b>Trench (metres)</b>	_____	_____	_____
<b>Underground dev. (metres)</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
		<b>TOTAL COST:</b>	<b>520,237.00</b>

**TECHNICAL REPORT OF 2016 DRILLING**

**AT HAT PROJECT**

**SHESLAY DISTRICT**

**ATLIN M.D.**

**NORTHWESTERN BRITISH COLUMBIA**

NTS 104J -012, -013, -022, -023

ZONE 9, 345211East, 6453290 North

131°35' West, 58°12' North

Mineral tenures 501290, 507814, 511709, 515549, 515550, 896518, 1019552, 1019554, 1019557

PROJECT OWNER: DOUBLEVIEW CAPITAL CORP.

PROJECT OPERATOR: TERRACAD GEOSCIENCE SERVICES LTD.

REPORT PREPARED BY: ANKE WOODWORTH, GIS SPECIALIST

ERIK OSTENSOE, P. Geo., CONSULTANT

DATE OF REPORT: March 21, 2018.

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## 1.0 INTRODUCTION

The Hat Property, located in Atlin M. D., 95 km southwest of Dease Lake, B. C., is owned by Doubleview Capital Corp., a junior mineral exploration company. The Company, since 2011, has explored the Hat Property by technical surveys and 10,281 metres of diamond drilling in 30 drill holes.

The Hat Property, comprising 3561.43 hectares in nine mineral tenures, is underlain by volcanoclastic metasedimentary rocks of the middle Triassic aged Stuhini Formation and by silica-poor gabbroic to dioritic intrusions. Historic and recent technical surveys have resulted in the identification of several areas with apparently anomalous levels of magnetic and induced polarization chargeability geophysical responses, and copper-in-soils geochemical analyses.

Diamond drilling since 2013 largely has been directed to the so-called “Lisle Zone” of gold-copper mineralization where an alkalic porphyry deposit of as-yet unknown dimensions has been partially explored.

Work in 2016 included camp improvements and 1960.84 metres of diamond drilling in five drill holes. Core and analytical data have been compiled and, to the extent practical, interpreted.

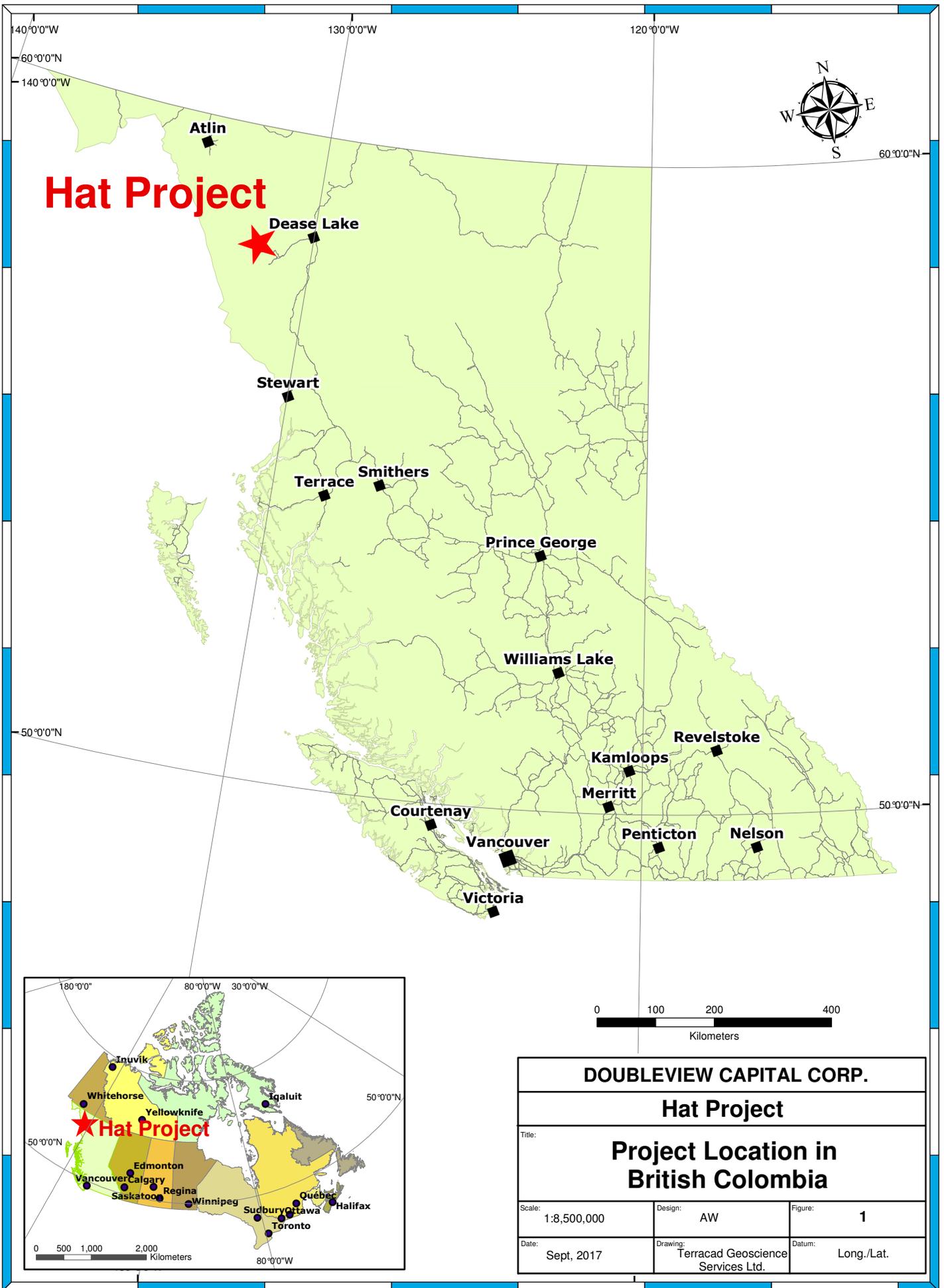
<b>Tenure No.</b>	<b>Claim Name</b>	<b>Owner</b>	<b>Issue Date</b>	<b>Good to Date</b>	<b>Area (ha)</b>
501290	HAT	Doubleview Capital Corp.	2005-01-12	2027-09-30	204.53
515549		Doubleview Capital Corp.	2005-06-29	2027-09-30	187.59
515550		Doubleview Capital Corp.	2005-06-29	2027-09-30	715.87
511709		Doubleview Capital Corp.	2005-04-26	2027-09-30	324.01
507814		Doubleview Capital Corp.	2005-02-24	2027-09-30	255.74
896518	TOP HAT	Doubleview Capital Corp.	2011-09-11	2027-09-30	204.51
1019552	HAT NORTH 1	Doubleview Capital Corp.	2013-05-16	2027-09-30	459.99
1019554	HAT NORTH 21	Doubleview Capital Corp.	2013-05-16	2027-09-30	664.19
1019557	HAT NORTH 3	Doubleview Capital Corp.	2013-05-16	2027-09-30	545.00

*Table 1: Hat Property – Mineral Tenures*

## **2.0 PROPERTY, OWNERSHIP, LOGISTICS, ACCESS**

The Hat Property comprises nine mineral tenures with area 3561.43 hectares located at Hatchau Lake in the Sheslay area of the Stikine Mining District, 95 km southwest of Dease Lake and 50 km north of Telegraph Creek (Figures 1 and 2). Doubleview Capital Corp., a junior mining company with principal offices in Vancouver, B. C., is the owner of the property. Mineral exploration work is conducted in accordance with provisions of Mine Permit No. Mx-1-872.

Small fixed-wing aircraft are employed to move personnel and freight from both Dease Lake and Whitehorse, Yukon, to the Sheslay airstrip situated 15 km west of the property and helicopters then transfer all personnel and necessities to the temporary camp located on the Hat Property. Apart from the temporary camp, there are no amenities on the property.



# Hat Project



Dease Lake

Stewart

Terrace

Smithers

Prince George

Williams Lake

Revelstoke

Kamloops

Merritt

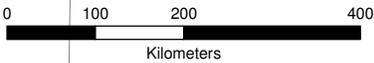
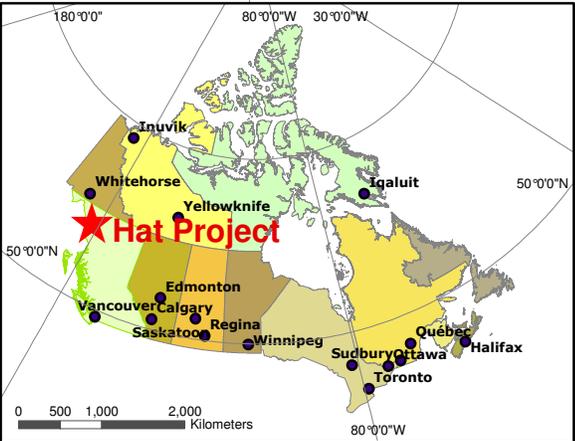
Courtenay

Vancouver

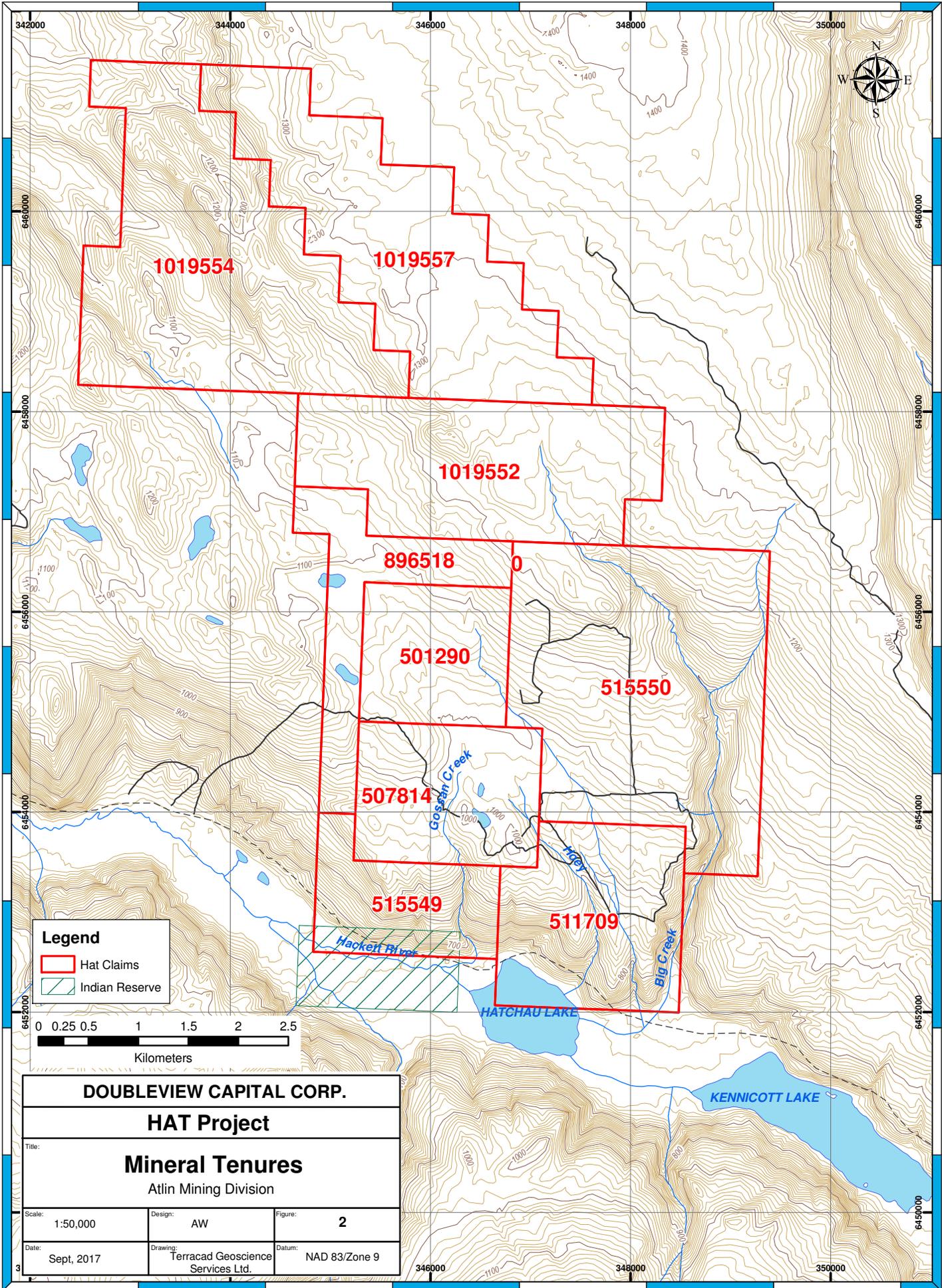
Penticton

Nelson

Victoria

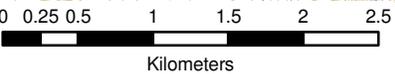


<b>DOUBLEVIEW CAPITAL CORP.</b>		
<b>Hat Project</b>		
Title: <b>Project Location in British Columbia</b>		
Scale: 1:8,500,000	Design: AW	Figure: <b>1</b>
Date: Sept, 2017	Drawing: Terracad Geoscience Services Ltd.	Datum: Long./Lat.



**Legend**

- Hat Claims
- Indian Reserve



<b>DOUBLEVIEW CAPITAL CORP.</b>		
<b>HAT Project</b>		
<b>Mineral Tenures</b>		
Atlin Mining Division		
Scale:	Design:	Figure:
1:50,000	AW	<b>2</b>
Date:	Drawing:	Datum:
Sept, 2017	Terracod Geoscience Services Ltd.	NAD 83/Zone 9

### **3.0 HISTORY OF THE HAT PROPERTY**

Utah Mines Ltd. in 1978 and 1979 conducted magnetic and induced polarization geophysical surveys, comprehensive soil geochemical surveys (copper only), and geological mapping followed by bulldozer trenching in several parts of the property (references: ARIS #6835 and #7482). Much of that company's data has been preserved and is included in data files currently in use.

The recent vendors of the property acquired the principal mineral tenures in 1994 and in ensuing years conducted several programs of prospecting, mapping and soil sampling before optioning, and subsequently selling, the property to Doubleview Capital Corp. The prospectors conducted prospecting and geological mapping surveys over the entire Hat Property and collected geochemical soil samples from most parts of the tenures, including from a grid-controlled area located in the southwest of the property. Data gathered from their work is detailed in various ARIS reports.

Starting in 2011, Doubleview Capital Corp. conducted geophysical and geochemical surveys to confirm and expand prior work. Diamond drilling commenced in 2013 and has continued at intervals to the present. Most of the drilling has been directed to the so-called "Lisle Zone" where, in 2014, a significant gold-copper alkalic porphyry-type deposit was discovered.

### **4.0 REGIONAL GEOLOGY**

The Hat Property is located at the western edge of the Intermontane physiographic province of the Canadian Cordillera, immediately east of the Coast Crystalline Belt. The terrain is typical of the Interior Plateau of British Columbia: active streams are incised into forested uplands that are surmounted by widely spaced mountains, many of which are inactive or dormant volcanoes. Structural features that overwhelmingly trend northwesterly infrequently are displaced by north-directed sub-structures that are often related to mineral deposits.

The Hat Property is located on the southwest flank of Level Mountain, a shield volcano of Tertiary age that comprises the continuation of a number of similar edifices, the highest and best-known of which is Mount Edziza, elevation 2787 metres (9144 feet), located 75 km south. Basaltic lava flows cover parts of the Hat property.

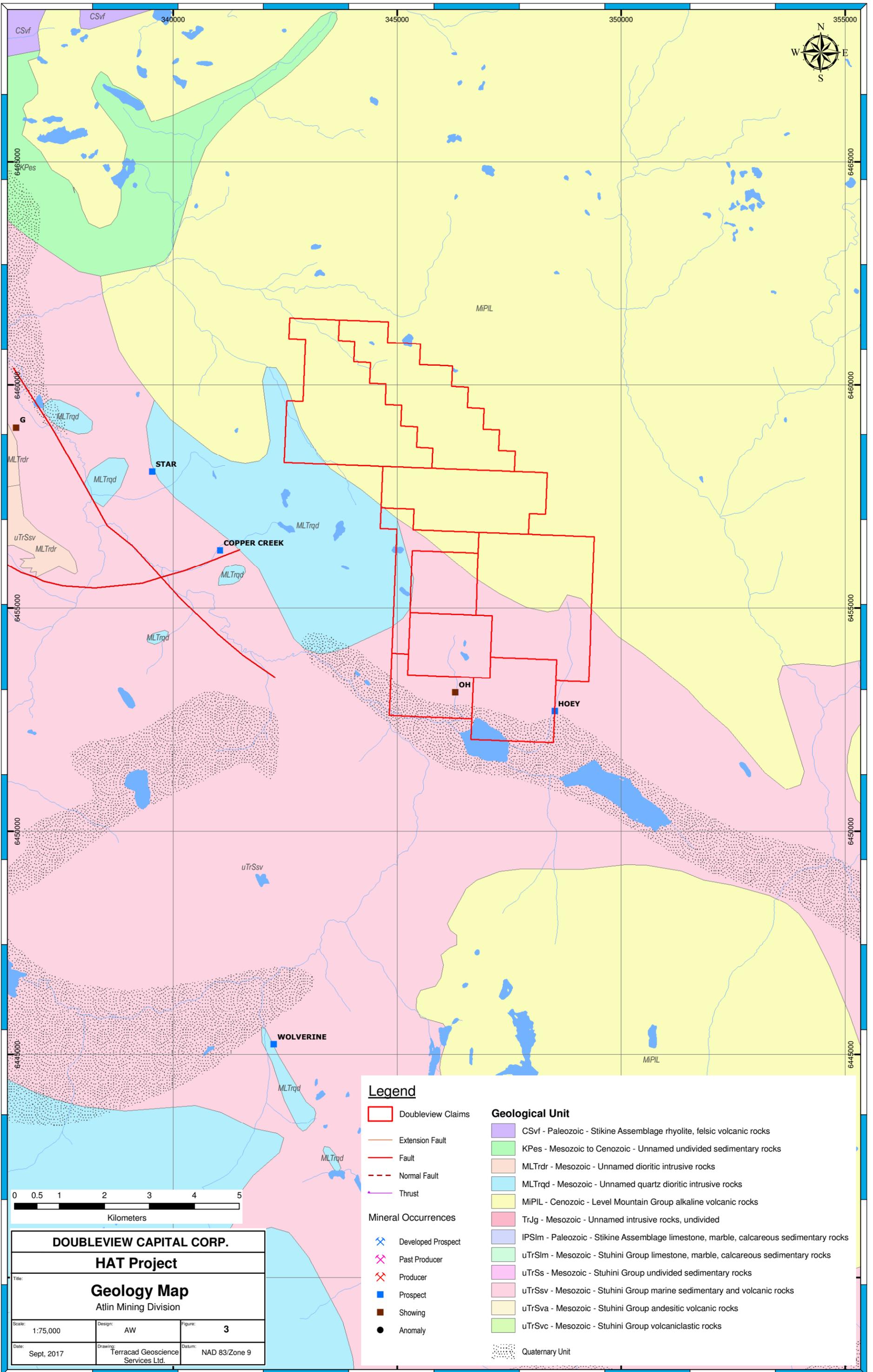
Stuhini formation volcanoclastic bedded rocks of andesitic composition underlie the Hat Property. Members include both air-fall and flow-type units: all are at least mildly affected by low grade regional metamorphism. Intrusive bodies include dioritic to gabbroic units of unknown distribution, and dark, andesitic to basaltic dykes that may be related to Tertiary volcanism in nearby areas.

The Sheslay region in general is poorly mapped geologically. Several mineral occurrences have been subjected to substantial exploration efforts, including the Star property, proximal to the Sheslay airstrip, and Heart Peaks, located at the edge of satellite cones west of Level Mountain. The former Golden Bear gold mine lies 35 km northwest of the Hat.

## 5.0 PROPERTY GEOLOGY

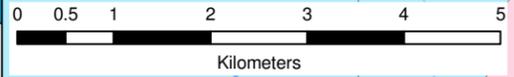
The Hat property has been prospected and mapped. Outcroppings are sparse, with best exposures being found in the margins of stream channels but large areas are swamps and willow thickets without rock exposures. Principal rock units are assigned to the Upper Triassic age Stuhini Group of very variable mixed tuffaceous and volcanoclastic units. The Stuhini Group is vaguely analogous to the Nicola and Takla Groups of rocks of similar age and composition that elsewhere in British Columbia are host to important copper, et al. mineral deposits. Anderson (1993\*) reported "*At least five facies of the Stuhini Group are distinguished in the Iskut River area by age, abundance and composition of the volcanic rocks (e.g., bimodal vs. mafic and intermediate composition), and nature of the intercalated marine strata (e.g., limestone vs. medium- to fine-grained siliciclastic rocks). Coarse-grained clinopyroxene (salite)-phyric flows and tuff make up the mafic volcanic rocks; sparsely feldspar-phyric dacitic crystal-lithic tuff is typical of the felsic volcanic rocks*". \*Reference: RG Anderson, 1993, contribution to Mesozoic Paleogeography of the Western United States – II, Dunne, G. and McDougall, K., eds.

The southeastern part of the Hat property comprises brown and black, sandy textured, thin- to coarse-bedded argillite and wackes whereas much of the remainder is tuffaceous to massive andesite. The greater part of recent diamond drilling has been directed to the Lisle zone discovery area where chalcopyrite and pyrite mineralization occurs with magnetite in chloritized andesite and coarse- to medium-grained gabbro and in zones of transition from one rock type to the other. Fracturing is common and appears to be related to one or more strong northwest-trending fault structures.



- Legend**
- Doubleview Claims
  - Extension Fault
  - Fault
  - Normal Fault
  - Thrust
- Mineral Occurrences**
- X Developed Prospect
  - X Past Producer
  - X Producer
  - Prospect
  - Showing
  - Anomaly

- Geological Unit**
- CSvf - Paleozoic - Stikine Assemblage rhyolite, felsic volcanic rocks
  - KPes - Mesozoic to Cenozoic - Unnamed undivided sedimentary rocks
  - MLTrdr - Mesozoic - Unnamed dioritic intrusive rocks
  - MLTrqd - Mesozoic - Unnamed quartz dioritic intrusive rocks
  - MiPIL - Cenozoic - Level Mountain Group alkaline volcanic rocks
  - TrJg - Mesozoic - Unnamed intrusive rocks, undivided
  - IPSlm - Paleozoic - Stikine Assemblage limestone, marble, calcareous sedimentary rocks
  - uTrSlm - Mesozoic - Stuhini Group limestone, marble, calcareous sedimentary rocks
  - uTrSs - Mesozoic - Stuhini Group undivided sedimentary rocks
  - uTrSsv - Mesozoic - Stuhini Group marine sedimentary and volcanic rocks
  - uTrSva - Mesozoic - Stuhini Group andesitic volcanic rocks
  - uTrSvc - Mesozoic - Stuhini Group volcanoclastic rocks
  - Quaternary Unit



<b>DOUBLEVIEW CAPITAL CORP.</b>		
<b>HAT Project</b>		
<b>Geology Map</b>		
Atlin Mining Division		
Scale: 1:75,000	Design: AW	Figure: 3
Date: Sept, 2017	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83/Zone 9

## **6.0 LISLE ZONE MINERAL DEPOSIT**

The Hat Property Lisle Zone mineral deposit was discovered in 2013 by diamond drilling. The discovery drill hole, H-08, [37.25 metres with 0.39% copper and 0.258 ppm gold], was positioned on the basis of interpretation of moderately strong chargeability readings coupled with strong magnetic readings. Soil geochemical determinations for copper were moderately elevated relative to the general area but nearby areas were not completely sampled due to ground conditions of deep muskeg. An historic Utah Mines Ltd. bulldozer trench is located 50 metres south of the collar of drill hole H-08.

Follow-up drilling in 2014, 2015 and 2016 has shown that the Lisle Zone has dimensions of at least 900 metres in the east-west direction, and 500 metres north-south. Thickness has not been reliably determined and nor has the general outline of the mineralization. Intercepts in south-directed drill holes include drill hole H-11 that intersected 33.53 metres with 0.336 ppm gold and 0.573% copper within a wider intercept of 313.11 metres with 0.182 g/tonne gold and 0.212% copper; 404 metres with 0.255g/t gold and 0.25% copper in drill hole H-22; 456.28 metres with 0.20 g/t gold, 0.24% copper and 0.5 g/t silver, including 110.9 metres with 0.36 g/t gold and 0.47% copper in drill hole H-23, and 514.41 metres with 0.14 g/t gold and 0.19% copper, including 261.13 metres with 0.16 g/t gold and 0.24% copper in drill hole H-26 (see below).

Principal minerals of economic interest are chalcopyrite, pyrite and magnetite. All occur in both the tuffaceous meta-andesite formations and in gabbro. Gold values occur with copper in the apparent ratio of about 0.9 g/t gold to 1.0% copper. Free gold has not been observed. Chalcopyrite is brassy yellow, varies from very fine-textured to medium-coarse grained and may occur closely mixed with pyrite or, often, in centimeter wide and wider bands without associated sulphides. A portion of the copper values are found by analysis in sheared dark andesite in which sulphide (or other) metallic minerals are obscure. Pyrite distribution is erratic: sometimes as thick (up to 40 cm) bands of solid pyrite, and elsewhere as intergrowths with chalcopyrite. Magnetite similarly varies, from disseminations in weakly metamorphosed andesite to strong, almost solid, sections, measureable in 10s of centimeters, in chloritized and/or epidotized andesite and as a substantial component of gabbro.

## **7.0 2016 PROGRAM OF DIAMOND DRILLING**

Doubleview mobilized a small work crew to the Hat Property in late October, 2016, that after camp rehab and improvements, was followed by a diamond drill outfit and crew plus support workers (geologist, core samplers, cook). Drill equipment, core boxes, fuels and groceries were delivered by aircraft to Sheslay airstrip and thence by helicopter to the camp. The camp was

repaired and improved by re-construction and insulation of buildings that has been damaged by wild animals and weather, with accommodation for as many as fifteen persons.

Diamond drilling commenced on November 1 and continued until December 7, 2016. Four drill holes in two areas were completed and one hole, H-30, was discontinued when weather conditions became too severe to safely continue the work. Details of drill holes are summarized in Table 2.

Hole	Easting	Northing	Elevation (m)	Inclination	Direction	Length (m)
H026	348024	6454358	1005	-60°	180°	568.50
H027	348024	6454358	1005	-65°	160°	500.54
H028	348024	6454358	1005	-60°	0°	504.75
H029	347093	6453553	979	-55°	150°	236.22
H030	347093	6453553	979	-55°	230°	150.89*

*Table 2: 2016 Drilling Information*

\*incomplete hole

An independent drilling contractor supplied a complete diamond drill outfit, including a light weight drill equipped with NQ-size tools and ancillary equipment, and two two-person crews of experienced drillers that worked 24/7. Total drilling was 1960.9 metres in five drill holes. Two locations were occupied. The 2016 program of work, despite difficult early-winter field conditions, was completed without any reportable injuries. Drill performance was superior to that achieved in earlier programs.

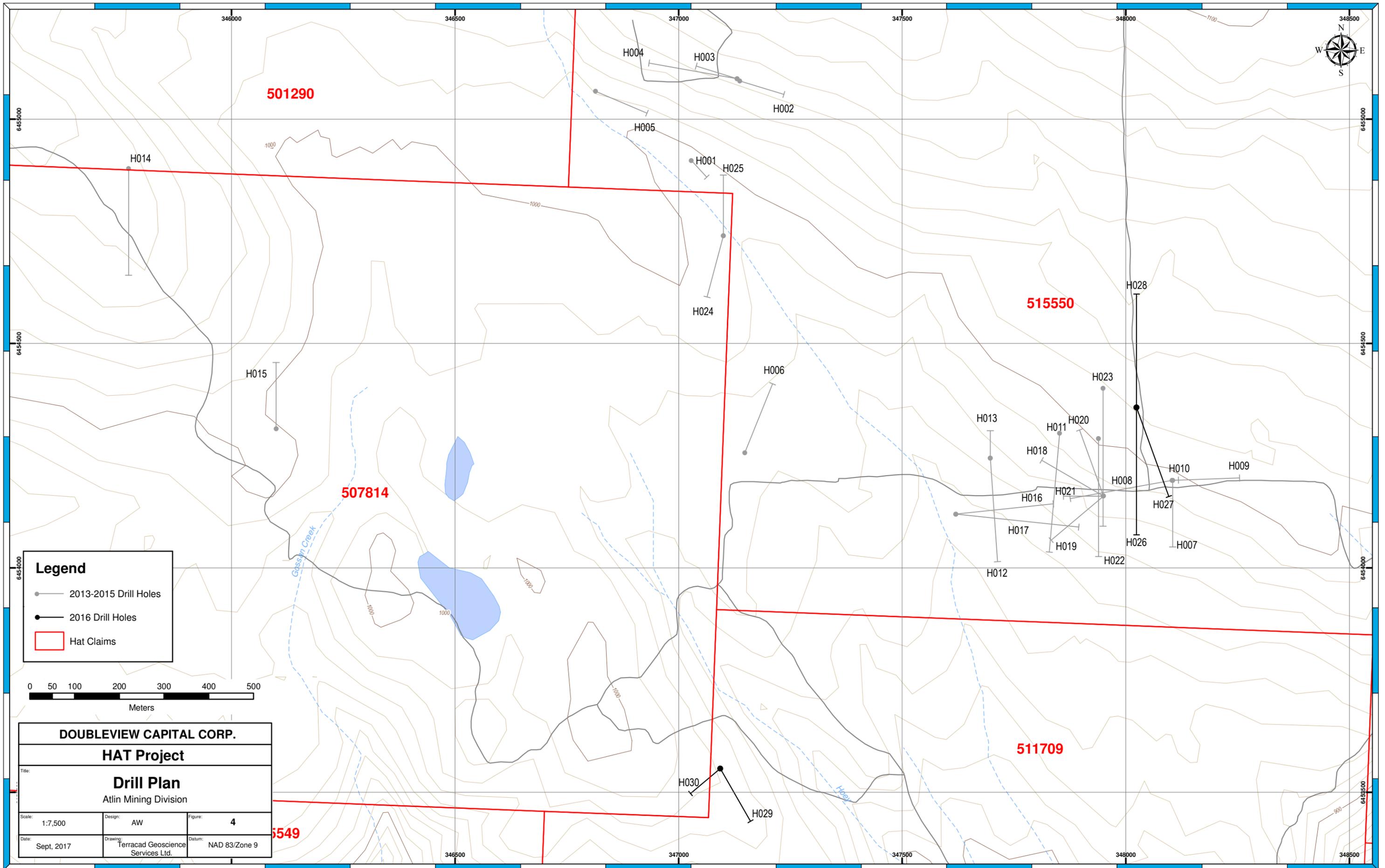
Drill cores were taken to the camp area to a processing facility equipped with tables, fluorescent lighting and heating where they were logged and suitably sampled by rock saw methods. After sampling, core boxes were stacked nearby where they are available for possible future re-examination and additional sampling. Half-core samples were placed in standard plastic sample bags that were placed in stout “rice” bags that were stored securely until they could be forwarded by helicopter-aircraft-commercial truck service to an independent, fully accredited, analytical laboratory located in Langley, B. C.

For quality assurance and quality control purposes, standard samples were introduced at intervals into the sample stream.

Sampling of drill hole H-029 was completed but due to logistics it was not practical to ship all samples when the program ended. Drill hole H-030 was suspended before reaching the intended depth and due to logistics related to camp closure, was only partially sampled.

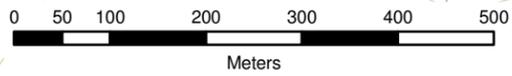
Core samples at the analytical laboratory were processed according to long-established protocols by sorting, drying, crushing and pulverizing, and then analysed by fire assay for gold and induced coupled plasma emission spectrometric methods for 33 elements. The laboratory performed additional QA/QC determinations that ensured the reliability of analytical data. Total number of samples submitted to the laboratory was 759; included were 24 QA/QC blank and standard samples. Details of core samples, including sample number, length of sample and gold and copper analyses, plus duplicate, blank and standard reference samples are presented in Appendix 2 of this report. Certificates of Analysis are included in Appendix 1 of this report.

Two sections in Appendix 4 of this report illustrate the geological features recorded for each drill hole, including rock type; followed by two sections that illustrate in colour-code gold and copper determinations. All data have been added to Doubleview's Hat Project database of technical information.



**Legend**

- 2013-2015 Drill Holes
- 2016 Drill Holes
- Hat Claims



<b>DOUBLEVIEW CAPITAL CORP.</b>		
<b>HAT Project</b>		
<b>Drill Plan</b>		
Atlin Mining Division		
Scale: 1:7,500	Design: AW	Figure: 4
Date: Sept, 2017	Drawing: Terracad Geoscience Services Ltd.	Datum: NAD 83/Zone 9

## **8.0 OBSERVATIONS AND DISCUSSION**

The 2016 program of diamond drilling was directed to the northward extension of the Lisle Zone of gold-copper mineralization and to a previously unexplored area located 1.1 km southwest of the Lisle Zone.

Drill holes H-026, H-027 and H-028 were successful in extending the Lisle Zone in the southeast and northerly directions. Indicated gold and copper values were consistent with previously obtained Lisle Zone values. Drill hole H-029 did not intersect any significant metal values. Drill hole H-030 was suspended at depth 151 metres due to the onset of severe winter conditions and will be completed to planned total depth of 450 metres when drilling is resumed.

Drill core information included in Appendix 3 of this report was recorded in the field by Parviz Rajaei, geologist. Drill hole locations and details are included in Table 2 and field logs are included in Appendix 3.

## **9.0 RECOMMENDATIONS**

In addition to completion of drill hole H-030, on the basis of geological interpretations, it is recommended that future work at the Hat Property should be directed to areas northwest and southeast of the Lisle Zone as presently known. In addition, parts of the property northeast of the Lisle Zone where a strong chargeability response has been recorded, along with moderately strong magnetic readings, a scattering of strong copper-in-soils analyses and several “high-grade” copper mineralized boulders, should be investigated by drilling. This anomalous area has been characterized as “Anomaly E”, with dimensions approximately 800 metres east-west and 300 metres north-south.

A small program of induced polarization geophysical surveying is recommended in order to expand the database of 1979 and 2011 surveys.

## 10.0 STATEMENT OF EXPENDITURES

The following expenditures were incurred in completion of the program of diamond drilling that is the subject of this report as recorded by Terracad Geoscience Services Ltd., operator on behalf of Doubleview Capital Corp.

		<b>CAD</b>
<b>Field Personnel October 31 to December 8, 2016</b>		
Devin Grinder - camp manager, carpenter	40 days @ \$400/day	\$ 16,000.00
Roy Grinder - carpenter, core cutter, labour	40 days @ \$350/day	\$ 14,000.00
Jacob Pettigrew - core cutter, labour	18 days @ \$325/day	\$ 5,850.00
Romain de Marchi - core cutter, labour	33 days @ \$350/day	\$ 11,550.00
Vanessa Thomas - First Aid, cook	40 days @ \$550/day	\$ 22,000.00
Parviz Rajaei - geologist, core logger	40 days @ \$550/day	\$ 22,000.00
Erik Ostensoe, P. Geo - project manager, geologist	15 days @ \$600/day	\$ 9,000.00
Anke Woodworth - camp support, GIS, communications	90 hours @ \$75/hour	\$ 6,750.00
Kelly Wasylow - camp support, expediting	10 days @ \$150/day	\$ 1,500.00
Farshad Shirvani, geologist, planning, GIS, logistics	15 days @ \$600/day	\$ 9,000.00
<b>Camp Operations - accommodation, food and services</b>		
Field personnel - 180 person days @ \$65/day		\$ 11,700.00
Paycore drillers - 4 X 40 days @ \$65/person day		\$ 10,400.00
<b>Transportation</b>		
Tintina Air (Whitehorse, YT)	18396 X 0.8	\$ 14,716.00
Lakelse Heli and Tundra Heli		\$ 65,114.00
Scheduled Airlines - Vanc - Whitehorse, YT and return	1193 X 2 X 0.8	\$ 1,909.00
Manitoulin - truck samples to Langley, B. C.	400 X 2	\$ 800.00
Bandstra - miscellaneous freight Smithers to Dease Lake		\$ 2,635.00
As invoiced 1960.9 metres - five drill holes, two sites		\$233,545.00
Core boxes - 750 X \$12/box		\$ 9,000.00
<b>Fuels - diesel, gasoline</b>		<b>\$ 30,429.00</b>
Prep., Fire Assay, 4 acid fusion, ICP 33 elements, disposal, levy		<b>\$ 22,339.00</b>
<b>TOTAL EXPENDITURES - HAT PROJECT - DIAMOND DRILLING - 2016</b>		<b>\$520,237.00</b>

## **11.0 STATEMENT OF AUTHORS' QUALIFICATIONS**

### ***11.1 Anke Woodworth, GIS specialist –***

Anke Woodworth, GIS specialist, has special training in data management and the preparation of graphic presentations of data from various sources, including satellite imagery. She has worked in the mineral exploration industry for more than ten years and is familiar with most aspects of field work, including geophysical surveys and drilling.

### ***11.2 Erik Ostensoe, P. Geo. –***

geologist, Hat Project Manager and consultant. Fully qualified geologist with much experience in mineral deposit exploration in the Canadian Cordilleran and elsewhere, including all recent work on the Hat property. Mr. Ostensoe is the principal author of accompanying report.

## **APPENDIX 1 - CERTIFICATES OF ANALYSIS**

YVR 1610183

YVR 1610184

YVR 1610195

YVR 1610279

YVR 1610280

YVR 1610281

YVR 1710128

YVR 1710129

YVR 1710130

YVR 1710131

YVR 1710132



**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610183**

Project Name: Hat  
Job Received Date: 21-Nov-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127045	Core	5.70		0.063		1.0	8.22	6	957	1.0	<2	5.05	<0.5
127046	Core	5.15		0.067		0.8	8.25	<5	710	0.7	<2	4.14	<0.5
127047	Core	5.20		0.010		<0.5	8.55	<5	686	0.5	3	5.15	<0.5
127048	Core	3.82		0.172		1.3	7.83	11	186	0.9	<2	4.35	<0.5
127049	Core	1.98		0.193		1.3	7.64	<5	192	0.7	<2	4.15	<0.5
127050	Core	6.00		0.255		1.2	6.24	11	500	0.7	6	2.90	<0.5
127051	Core	1.89		0.029		<0.5	8.57	<5	208	0.7	<2	3.79	<0.5
127052	Core	3.34		0.031		<0.5	8.63	<5	212	0.8	<2	4.62	<0.5
127053	Core	4.34		0.046		<0.5	8.70	<5	118	0.8	2	4.74	<0.5
127054	Core	5.57		0.027		<0.5	8.66	<5	144	0.8	2	4.55	<0.5
127055	Core	7.23		0.072		<0.5	9.12	<5	172	0.8	<2	5.08	<0.5
127056	Core	6.57		0.052		<0.5	8.90	<5	77	0.7	2	4.54	<0.5
127057	Core	4.81		0.022		<0.5	7.77	<5	128	0.7	<2	6.09	<0.5
127058	Core	7.76		0.048		<0.5	8.35	<5	110	0.7	<2	4.81	<0.5
127059	Core	6.91		0.036		<0.5	8.85	<5	179	0.9	4	4.87	<0.5
127060	Pulp	0.07		1.583		32.3	7.34	21	891	1.0	<2	1.80	<0.5
127061	Core	3.47		0.025		<0.5	8.03	<5	183	0.8	<2	5.05	<0.5
127062	Core	7.75		0.026		<0.5	7.89	<5	217	0.6	<2	6.13	<0.5
127063	Core	7.63		0.009		<0.5	8.13	<5	220	0.6	<2	6.16	<0.5
127064	Core	7.93		0.009		<0.5	7.32	<5	209	0.6	3	7.13	<0.5
127065	Core	8.39		0.057		<0.5	8.15	<5	229	0.8	<2	5.74	<0.5
127066	Core	7.59		0.057		<0.5	7.91	<5	226	0.7	3	7.11	<0.5
127067	Core	5.92		0.049		<0.5	7.88	<5	264	0.5	3	7.21	<0.5
127068	Core	4.12		0.083		<0.5	7.55	<5	305	0.5	7	7.33	<0.5
127069*	Core	3.03		0.039		<0.5	7.40	8	318	<0.5	4	7.45	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127070*	Core	4.86		0.011		<0.5	7.46	<5	262	<0.5	5	7.95	<0.5
127071*	Core	5.38		0.009		<0.5	7.54	<5	222	0.5	<2	7.03	<0.5
127072	Core	1.64		0.026		0.5	7.88	<5	212	0.5	2	6.92	<0.5
127073	Core	7.22		0.015		<0.5	8.11	<5	209	0.6	<2	6.37	<0.5
127074	Core	7.99		0.007		<0.5	9.05	<5	113	0.7	<2	5.26	<0.5
127075	Core	6.64		0.007		<0.5	9.08	<5	165	0.7	<2	4.86	<0.5
127076	Core	7.98		0.021		<0.5	8.99	<5	125	0.7	<2	5.07	<0.5
127077	Core	7.22		0.011		<0.5	8.81	<5	135	0.7	<2	5.04	0.6
127078	Core	5.92		0.009		<0.5	9.07	<5	84	0.6	3	5.73	<0.5
127079	Core	5.69		0.011		<0.5	9.20	<5	74	0.6	2	5.05	<0.5
127080	Core	8.39		0.093		<0.5	7.05	<5	915	0.6	10	6.38	<0.5
127081	Core	8.05		0.068		<0.5	7.35	<5	317	0.6	5	6.94	<0.5
127082	Core	7.42		0.040		<0.5	7.53	<5	351	0.6	<2	7.05	<0.5
127083	Core	3.60		0.706	10201	1.7	6.48	<5	290	0.6	5	4.71	<0.5
127084	Core	6.71		1.673		1.2	9.27	6	1841	0.7	<2	4.61	<0.5
127085	Core	8.21		0.074		<0.5	8.15	<5	364	0.7	3	5.56	<0.5
127086	Core	8.32		0.159		<0.5	8.47	<5	373	0.6	<2	5.75	<0.5
127087	Core	8.96		0.564		<0.5	7.89	<5	186	0.7	8	6.32	<0.5
127088	Core	3.08		0.126		<0.5	9.02	<5	206	0.6	2	7.57	<0.5
127089	Core	8.08		0.096		<0.5	8.89	<5	253	0.6	<2	6.88	<0.5
127090	Core	0.56		0.014		<0.5	7.60	<5	880	1.0	<2	1.76	<0.5
127091	Core	8.34		0.068		<0.5	8.71	<5	244	0.6	<2	6.89	<0.5
127092	Core	8.18		0.065		<0.5	8.24	<5	205	0.9	3	6.62	<0.5
127093	Core	6.06		0.088		<0.5	9.08	<5	170	0.8	2	6.61	<0.5
127094	Core	8.34		0.028		<0.5	8.61	<5	229	0.6	7	7.52	<0.5

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127095	Core	8.52		0.052		<0.5	8.44	<5	284	0.6	<2	7.08	<0.5
127096	Core	8.72		0.050		<0.5	8.83	<5	308	0.6	6	6.72	<0.5
127097	Core	5.27		0.268		0.5	8.28	<5	139	0.6	8	6.14	<0.5
127098	Core	7.69		0.051		<0.5	7.80	<5	113	0.5	2	6.72	<0.5
127099	Core	8.22		0.064		<0.5	7.88	<5	251	0.5	<2	6.75	<0.5
127100	Core	7.45		0.223		<0.5	7.08	<5	265	0.5	2	8.34	0.6
127101	Core	7.63		0.037		<0.5	7.77	<5	200	0.5	<2	6.48	<0.5
127102	Core	8.15		0.077		<0.5	7.50	<5	177	0.5	<2	7.50	<0.5
127103	Core	8.08		0.069		<0.5	7.71	<5	217	0.5	<2	6.99	0.6
127104	Core	7.51		0.056		<0.5	8.71	<5	191	0.6	2	6.12	<0.5
127105	Core	7.49		0.083		<0.5	7.99	<5	250	0.7	6	7.19	<0.5
127106	Core	5.40		0.198		<0.5	9.31	<5	219	0.7	2	5.91	<0.5
127107	Core	4.72		0.400		0.7	8.45	<5	608	0.7	<2	4.53	<0.5
127108	Core	6.40		0.101		<0.5	8.74	<5	154	0.7	<2	4.23	<0.5
127109	Core	5.38		0.039		<0.5	9.16	<5	79	0.8	<2	4.77	<0.5
127110	Core	3.02		0.232		0.5	8.78	<5	204	0.8	3	4.38	<0.5
127111	Core	6.28		1.112	22520	1.5	7.63	28	235	0.7	5	4.06	<0.5
127112	Core	3.09		0.487	10634	0.8	7.68	<5	659	0.6	<2	3.60	<0.5
127113	Core	5.75		0.159		<0.5	8.28	<5	269	0.8	<2	5.48	<0.5
127114	Core	7.29		0.478		0.9	7.38	<5	93	0.7	2	5.03	<0.5
127115	Core	4.96		0.211		0.6	8.05	<5	311	0.7	<2	5.19	<0.5
127116	Core	6.58		0.053		<0.5	8.42	<5	197	0.7	3	6.08	<0.5
127117	Core	7.00		0.069		<0.5	9.13	<5	225	0.7	<2	5.64	<0.5
127118	Core	6.85		0.040		<0.5	9.42	<5	247	0.7	<2	6.07	<0.5
127119	Core	5.66		0.086		<0.5	9.45	<5	204	0.7	3	5.70	<0.5

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127120	Pulp	0.08		0.500		3.7	6.30	569	708	0.8	17	5.62	<0.5
127121	Core	7.28		0.168		<0.5	9.47	<5	221	0.7	6	6.02	<0.5
127122	Core	2.64		1.487		1.1	8.06	<5	428	0.7	3	5.42	<0.5
127123	Core	7.52		0.084		<0.5	8.85	<5	574	0.8	5	5.78	<0.5
127124	Core	8.16		0.169		<0.5	9.13	<5	215	0.7	<2	5.71	<0.5
127125	Core	7.68		0.054		<0.5	8.21	<5	183	0.6	<2	6.98	<0.5
127126	Core	5.28		0.040		<0.5	8.61	<5	241	0.6	3	7.74	<0.5
127127	Core	9.50		0.048		<0.5	8.76	<5	240	0.6	<2	7.32	<0.5
127128	Core	0.59		0.035		<0.5	8.55	<5	203	0.5	4	7.32	<0.5
127129	Core	7.26		0.032		<0.5	7.21	<5	179	0.5	2	7.45	<0.5
127130	Core	3.72		0.169		0.6	7.55	<5	97	0.6	3	6.58	<0.5
127131	Core	4.52		1.431	25159	1.3	7.24	<5	83	0.6	<2	4.05	<0.5
127132	Core	5.31		0.367		<0.5	8.94	<5	158	0.7	<2	5.57	<0.5
127133	Core	7.41		0.039		<0.5	9.31	<5	223	0.7	<2	5.36	<0.5
127134	Core	8.04		0.163		<0.5	9.33	<5	238	0.7	<2	6.45	<0.5
127135	Core	7.45		0.083		<0.5	8.95	<5	247	0.7	3	6.27	<0.5
127136	Core	8.56		0.018		<0.5	8.44	<5	222	0.7	2	6.61	<0.5
127137	Core	7.90		0.023		<0.5	8.89	<5	257	0.7	<2	5.36	<0.5
127138	Core	7.02		0.013		<0.5	9.73	<5	390	0.6	2	5.64	<0.5
127139	Core	6.77		0.061		<0.5	9.68	<5	174	0.7	<2	5.73	<0.5

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Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610183

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, Sample Type, PWE-100 Rec. Wt. kg, Method Analyte Units, FAS-121 Au ppm, ICF-6Cu Cu ppm, ICP-230 Ag ppm, ICP-230 Al %, ICP-230 As ppm, ICP-230 Ba ppm, ICP-230 Be ppm, ICP-230 Bi ppm, ICP-230 Ca %, ICP-230 Cd ppm. Rows include sample IDs 127140 through 127159.

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



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		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127160	Core	8.24		0.671		<0.5	5.95	<5	440	0.7	3	5.36	<0.5
127161	Core	7.27		0.070		<0.5	7.58	<5	133	0.6	<2	5.55	<0.5
127162	Core	7.18		0.109		<0.5	8.53	<5	73	0.6	3	4.97	<0.5
127163	Core	7.36		0.353		<0.5	8.57	<5	178	0.6	<2	6.22	<0.5
127164	Core	7.22		0.241		<0.5	8.26	<5	151	0.6	<2	6.08	<0.5
127165	Core	7.11		0.181		0.7	8.05	<5	111	0.6	<2	6.37	<0.5
127166	Core	7.19		0.055		<0.5	8.26	<5	155	0.5	<2	5.92	<0.5
127167	Core	7.04		0.049		<0.5	8.08	<5	150	<0.5	<2	6.70	<0.5
127168	Core	7.46		0.053		<0.5	8.37	<5	180	<0.5	<2	6.91	<0.5
127169	Core	7.86		0.048		<0.5	8.09	<5	135	0.5	7	5.94	<0.5
127170	Core	8.01		0.155		<0.5	8.13	<5	146	0.5	4	5.67	<0.5
127171	Core	5.90		0.073		<0.5	7.49	<5	109	0.6	4	5.27	<0.5
DUP 127067				0.035									
DUP 127080				0.088									
DUP 127157				0.090									
DUP 127047						<0.5	8.62	<5	695	0.5	<2	5.20	<0.5
DUP 127068						<0.5	7.51	<5	302	0.5	4	7.29	0.6

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
DUP 127078		0.01	LOR	0.005	10	<0.5	9.32	<5	82	0.7	<2	5.89	<0.5
DUP 127113					25543	0.6	8.31	<5	268	0.8	6	5.43	<0.5
DUP 127131													
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK					<10								
STD OxA131				0.071									
STD CDN-GS-P4C				0.354									
STD CDN-GS-2R				2.091									
STD OREAS 601						49.9	6.65	332	2605	2.2	22	1.33	8.4
STD GBM908-10						3.1	7.44	57	1090	1.5	9	3.74	2.1
STD CDN-CM-38						6.2	5.87	37	248	0.6	<2	0.52	5.3
STD OREAS 601						48.8	6.31	327	1494	2.1	19	1.29	8.0
STD OREAS 504					11369								

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610183**

Project Name: Hat  
Job Received Date: 21-Nov-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127045	172	73	1877	10.66	29	1.92	19	2.69	1436	13	2.20	36	1174
127046	122	83	1469	10.14	25	1.17	<10	2.77	1059	<1	3.47	29	831
127047	51	96	423	9.00	23	1.75	<10	3.55	1070	<1	2.33	32	1133
127048	186	134	2544	11.82	27	0.75	<10	3.53	920	7	3.03	52	1439
127049	232	68	1290	12.56	28	0.54	<10	3.31	921	20	3.07	20	1109
127050	448	54	2207	28.13	46	1.16	<10	1.94	725	88	1.99	50	886
127051	36	14	502	8.95	26	0.66	<10	2.64	609	8	3.61	10	1478
127052	26	25	570	9.38	26	0.49	<10	2.78	756	10	3.90	9	1540
127053	20	22	894	8.51	25	0.36	<10	2.69	637	5	3.93	8	1529
127054	35	26	361	8.31	24	0.46	<10	2.83	574	8	3.69	12	1621
127055	25	17	391	8.28	24	0.56	<10	2.78	519	6	3.98	9	1526
127056	45	30	1148	7.14	25	0.34	<10	2.53	593	9	4.41	19	1239
127057	44	121	189	9.10	26	0.50	<10	3.55	646	2	3.00	35	902
127058	40	52	514	7.78	25	0.39	<10	2.98	572	2	4.02	24	1226
127059	39	71	428	5.54	21	0.55	<10	2.72	574	<1	4.49	29	1953
127060	8	32	3234	2.97	18	2.25	<10	0.24	448	416	2.43	19	411
127061	28	117	348	5.75	21	0.39	<10	3.14	569	<1	4.34	42	1872
127062	34	159	133	7.68	23	0.89	<10	4.16	837	<1	2.87	47	864
127063	29	144	112	7.75	24	0.95	<10	4.08	744	<1	2.83	45	912
127064	34	185	114	8.68	24	0.80	<10	4.89	906	1	2.29	58	742
127065	48	97	874	8.54	24	0.91	<10	3.27	627	<1	3.28	40	1162
127066	51	179	463	8.39	26	0.80	<10	4.36	929	<1	2.62	49	508
127067	57	157	499	9.52	25	0.98	<10	4.57	928	<1	2.25	54	886
127068	48	195	123	9.39	25	1.03	<10	5.19	1075	<1	2.08	66	764
127069*	44	209	460	8.77	21	1.02	<10	4.67	1092	<1	2.08	57	1619

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An A2 Global Company

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 Langley, BC V1M 4B4  
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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127070*	39	193	80	8.89	26	0.90	<10	5.34	1069	<1	1.94	65	745
127071*	37	156	120	9.58	24	0.83	<10	4.84	1036	<1	2.35	56	556
127072	44	131	335	9.59	27	0.83	<10	4.59	970	<1	2.43	53	607
127073	43	103	245	9.56	26	0.73	<10	4.13	782	<1	2.87	36	600
127074	20	18	49	7.34	27	0.40	<10	2.67	458	<1	4.14	8	1239
127075	22	21	27	7.59	25	0.52	<10	2.71	425	<1	4.18	8	1234
127076	18	20	125	7.14	27	0.46	<10	2.63	407	<1	4.15	9	1245
127077	17	19	215	7.00	26	0.43	<10	2.61	416	<1	4.18	8	1229
127078	19	18	14	7.00	23	0.30	<10	2.47	392	<1	4.17	8	1227
127079	24	20	115	7.36	25	0.30	<10	2.68	462	<1	4.27	8	1250
127080	64	207	1115	10.82	26	1.45	<10	5.17	807	<1	1.82	54	868
127081	53	201	756	10.44	26	0.98	<10	5.13	806	<1	2.07	56	774
127082	59	202	551	9.69	27	0.94	<10	5.25	844	1	2.13	55	757
127083	534	159	>10000	13.97	30	0.88	<10	4.20	543	8	1.96	128	712
127084	192	65	3984	8.25	23	2.82	<10	2.26	493	<1	2.43	38	754
127085	81	169	765	9.70	29	0.87	<10	4.52	641	<1	2.86	41	1439
127086	103	89	1942	9.70	27	1.10	<10	4.17	774	<1	2.69	40	1009
127087	244	88	2934	15.40	34	0.70	<10	3.44	819	12	2.28	90	575
127088	46	72	524	7.83	27	0.85	<10	4.43	1134	<1	2.47	42	999
127089	54	82	757	8.27	28	0.94	<10	3.93	978	<1	2.59	42	952
127090	4	95	9	2.17	17	1.89	<10	0.55	653	2	3.26	3	434
127091	47	104	434	8.93	29	0.91	<10	4.56	1068	<1	2.51	44	445
127092	67	179	755	8.34	24	0.91	<10	4.90	828	4	2.57	84	1541
127093	71	114	1002	8.16	24	0.75	<10	3.94	870	6	2.92	60	1010
127094	38	96	363	7.78	24	0.98	<10	4.62	1178	<1	2.47	40	574

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127095	40	97	550	8.04	22	0.94	<10	4.81	1083	1	2.58	41	449
127096	45	91	607	8.13	23	1.03	<10	4.51	993	<1	2.78	42	700
127097	121	117	3186	9.66	27	0.60	<10	4.56	971	<1	2.98	47	765
127098	41	143	541	8.35	22	0.46	<10	5.00	1258	<1	3.14	56	774
127099	50	162	656	8.90	26	0.77	<10	4.97	1258	<1	3.09	66	1054
127100	50	203	783	8.74	25	0.82	<10	5.28	1318	<1	2.27	79	1022
127101	48	160	626	9.08	27	0.75	<10	5.51	1144	<1	2.76	64	1063
127102	49	171	696	8.76	27	0.71	<10	5.53	957	<1	2.28	62	808
127103	38	166	400	8.08	23	0.86	<10	5.14	978	<1	2.51	57	774
127104	45	103	789	7.88	24	0.85	<10	3.33	752	<1	3.25	34	1106
127105	54	146	704	8.54	26	0.88	<10	3.93	997	<1	2.60	46	869
127106	44	85	1793	7.63	25	1.05	<10	3.45	677	3	3.31	31	1176
127107	182	71	7123	12.38	27	0.74	<10	2.82	534	7	3.30	49	910
127108	55	20	1690	10.29	30	0.58	<10	3.05	587	1	3.92	33	1440
127109	29	23	729	7.93	26	0.49	<10	2.64	357	<1	4.19	10	1519
127110	96	28	5296	9.01	27	0.51	<10	2.67	495	2	4.00	30	1490
127111	268	32	>10000	13.52	31	0.64	<10	3.19	778	<1	3.15	73	1453
127112	350	57	>10000	13.82	30	1.26	<10	3.50	858	<1	3.00	76	1610
127113	89	142	3279	7.91	31	0.81	<10	3.95	793	<1	3.42	50	1056
127114	153	122	9312	11.78	29	0.28	<10	4.25	844	<1	2.93	65	1171
127115	105	102	3996	10.08	28	0.69	<10	3.61	732	<1	3.20	42	1092
127116	47	144	654	6.61	26	0.85	<10	4.41	907	<1	3.23	59	937
127117	38	47	476	7.52	27	0.88	<10	3.18	1005	<1	3.47	30	1351
127118	32	51	400	7.35	26	0.97	<10	2.89	983	<1	3.30	17	1400
127119	54	37	608	7.25	28	0.84	<10	3.00	788	<1	3.57	26	1432

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Phone: +1-604-888-0875

To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610183

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, ICP-230 Co ppm, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127120 through 127139.

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Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610183

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns (Sample ID, ICP-230 Co, ICP-230 Cr, ICP-230 Cu, ICP-230 Fe, ICP-230 Ga, ICP-230 K, ICP-230 La, ICP-230 Mg, ICP-230 Mn, ICP-230 Mo, ICP-230 Na, ICP-230 Ni, ICP-230 P) and 20 rows of data.

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To: **Terracad Geoscience Services Ltd.**  
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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127160	95	87	3937	19.83	41	0.57	<10	3.61	1001	<1	1.88	85	1071
127161	47	84	1141	9.88	29	0.63	<10	3.87	891	<1	2.90	33	1049
127162	40	35	1655	7.94	28	0.28	<10	2.39	514	<1	3.92	33	1035
127163	52	68	1911	8.58	29	0.66	<10	3.28	787	<1	2.86	32	950
127164	56	56	2055	7.98	27	0.59	<10	3.13	899	<1	2.80	38	897
127165	108	64	4141	9.68	31	0.46	<10	2.92	1056	<1	2.76	55	786
127166	42	71	1264	9.06	27	0.69	<10	3.39	952	1	2.78	41	691
127167	43	62	802	8.39	28	0.59	<10	3.52	961	<1	2.73	32	1052
127168	37	72	1256	8.86	28	0.78	<10	3.76	1042	<1	2.39	52	913
127169	42	40	1441	10.86	30	0.54	<10	3.19	964	<1	2.64	45	851
127170	53	55	2516	12.25	33	0.62	<10	3.44	885	<1	2.46	63	1092
127171	65	43	1213	13.95	36	0.53	<10	3.81	1056	<1	2.51	68	1146
DUP 127067													
DUP 127080													
DUP 127157													
DUP 127047	52	99	425	9.08	24	1.77	<10	3.58	1079	<1	2.35	31	1150
DUP 127068	47	197	123	9.35	23	1.03	<10	5.15	1068	<1	2.07	67	756

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
DUP 127078	19	18	14	7.18	27	0.30	<10	2.54	404	<1	4.28	8	1259
DUP 127113	91	130	3285	7.88	24	0.81	<10	3.93	791	<1	3.43	50	1049
DUP 127131													
STD BLANK													
STD BLANK													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD OxA131													
STD CDN-GS-P4C													
STD CDN-GS-2R													
STD OREAS 601	4	46	1030	2.57	24	2.24	17	0.40	482	4	1.46	26	480
STD GBM908-10	25	135	3692	5.94	25	2.34	29	1.97	795	62	2.26	2101	1025
STD CDN-CM-38	14	19	6988	7.27	21	2.28	<10	0.52	797	183	0.15	16	534
STD OREAS 601	4	38	995	2.44	23	2.05	17	0.39	476	4	1.42	22	484
STD OREAS 504													

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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127045	18	2.00	<5	19	343	<8	0.42	17	211	12	86	31
127046	13	1.25	<5	21	381	<8	0.37	<10	216	12	62	27
127047	9	0.36	<5	28	424	<8	0.43	<10	248	<10	57	18
127048	12	1.73	<5	26	400	<8	0.41	<10	261	<10	79	40
127049	13	1.67	<5	31	305	<8	0.41	<10	275	<10	66	40
127050	21	4.17	7	13	310	<8	0.27	14	268	35	66	35
127051	9	0.33	<5	27	466	<8	0.41	<10	291	<10	37	40
127052	9	0.32	<5	27	526	<8	0.43	<10	321	<10	32	42
127053	9	0.29	<5	28	494	<8	0.42	<10	311	<10	30	41
127054	9	0.30	<5	27	420	<8	0.42	<10	297	<10	33	38
127055	10	0.17	<5	28	472	<8	0.44	<10	317	<10	28	44
127056	10	0.46	<5	23	294	<8	0.41	<10	250	<10	44	41
127057	7	0.41	<5	34	319	<8	0.44	<10	292	<10	37	32
127058	9	0.42	<5	28	386	<8	0.43	<10	263	<10	31	37
127059	3	0.45	<5	23	557	<8	0.59	<10	230	<10	29	35
127060	65	1.06	81	<2	622	<8	0.12	<10	41	12	60	9
127061	7	0.20	<5	25	494	<8	0.53	<10	237	11	29	33
127062	10	0.18	<5	33	433	<8	0.44	<10	264	<10	43	26
127063	9	0.18	<5	31	440	<8	0.42	<10	252	<10	38	25
127064	11	0.17	<5	38	340	<8	0.41	<10	258	<10	45	26
127065	11	0.54	<5	23	484	<8	0.45	<10	248	<10	33	30
127066	12	0.50	<5	35	399	<8	0.41	<10	240	<10	44	33
127067	9	0.64	<5	38	368	<8	0.43	<10	278	11	48	22
127068	8	0.27	<5	43	402	<8	0.43	<10	295	<10	53	25
127069*	8	0.27	7	45	394	<8	0.45	<10	315	<10	68	25

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127070*	9	0.11	<5	45	337	<8	0.45	<10	310	<10	57	23
127071*	9	0.27	<5	42	354	<8	0.43	<10	291	<10	53	25
127072	10	0.58	<5	40	367	<8	0.44	<10	286	<10	49	25
127073	14	0.19	<5	39	386	<8	0.42	<10	297	<10	40	32
127074	12	0.13	7	25	327	<8	0.44	<10	303	<10	25	40
127075	11	0.15	<5	26	422	<8	0.44	<10	308	<10	25	41
127076	10	0.09	<5	25	306	<8	0.43	<10	297	<10	23	42
127077	9	0.11	<5	24	370	<8	0.43	10	294	<10	22	41
127078	6	0.10	<5	25	327	<8	0.42	<10	288	<10	23	44
127079	7	0.17	<5	26	244	<8	0.44	<10	308	<10	26	43
127080	7	0.77	<5	45	346	<8	0.43	<10	291	11	41	25
127081	10	0.45	6	44	387	<8	0.43	<10	308	<10	40	25
127082	13	0.63	<5	45	367	<8	0.44	<10	298	10	42	25
127083	16	7.70	<5	33	397	<8	0.34	15	240	<10	33	22
127084	8	2.51	<5	23	616	<8	0.43	<10	171	<10	26	33
127085	11	1.05	<5	35	401	<8	0.46	<10	286	<10	35	37
127086	10	1.37	<5	35	465	<8	0.54	<10	303	<10	39	28
127087	11	3.00	6	28	366	<8	0.45	<10	307	14	43	22
127088	9	0.36	7	36	444	<8	0.56	<10	302	<10	50	26
127089	12	0.56	<5	33	488	<8	0.53	<10	299	<10	45	24
127090	14	0.04	<5	7	234	<8	0.21	<10	40	12	38	65
127091	12	0.34	<5	39	467	<8	0.54	<10	314	11	47	23
127092	8	0.89	6	34	461	<8	0.49	<10	303	<10	39	35
127093	8	0.96	<5	27	454	<8	0.47	<10	276	<10	40	33
127094	9	0.31	<5	39	442	<8	0.56	<10	329	<10	52	27

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127095	12	0.33	<5	42	471	<8	0.57	<10	339	<10	46	27
127096	8	0.29	<5	37	494	<8	0.54	<10	312	10	43	25
127097	12	0.68	<5	34	290	<8	0.46	<10	262	12	41	22
127098	9	0.21	5	41	255	<8	0.46	14	276	<10	55	25
127099	9	0.37	<5	40	343	<8	0.46	<10	258	<10	59	29
127100	8	0.24	<5	41	276	<8	0.44	<10	257	11	57	26
127101	9	0.34	<5	43	369	<8	0.44	<10	265	<10	53	25
127102	9	0.31	<5	43	390	<8	0.42	<10	266	<10	46	23
127103	5	0.23	<5	42	393	<8	0.44	<10	262	<10	45	23
127104	12	0.45	<5	28	436	<8	0.45	<10	261	<10	35	19
127105	13	0.48	<5	34	543	<8	0.43	<10	274	<10	41	23
127106	9	0.66	<5	28	592	<8	0.46	<10	268	<10	33	23
127107	11	2.21	<5	20	536	<8	0.39	<10	254	<10	29	31
127108	11	0.62	<5	21	514	<8	0.40	<10	248	<10	29	40
127109	10	0.16	<5	22	462	<8	0.41	<10	268	<10	19	45
127110	12	1.00	<5	22	406	<8	0.43	<10	265	<10	27	35
127111	13	3.45	<5	27	277	<8	0.46	11	284	<10	42	21
127112	20	2.25	5	29	354	<8	0.43	<10	278	<10	52	24
127113	14	0.72	8	31	432	<8	0.50	18	259	<10	38	34
127114	15	2.00	8	31	323	<8	0.48	18	265	10	46	26
127115	56	1.34	8	26	443	<8	0.50	11	282	<10	36	28
127116	11	0.60	5	32	466	<8	0.51	<10	264	<10	41	31
127117	15	0.60	7	27	501	<8	0.57	10	296	<10	46	26
127118	12	0.32	<5	26	537	<8	0.57	<10	303	<10	46	23
127119	14	0.81	<5	27	514	<8	0.57	<10	295	<10	39	30

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Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610183**

Project Name: Hat  
Job Received Date: 21-Nov-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127120	24	0.55	14	9	481	<8	0.20	<10	89	16	87	24
127121	11	0.52	<5	27	486	<8	0.59	<10	295	10	42	27
127122	16	3.80	11	27	615	<8	0.49	13	260	12	36	23
127123	11	0.60	<5	28	467	<8	0.58	10	291	<10	37	26
127124	13	0.62	<5	29	466	<8	0.59	10	311	<10	43	25
127125	11	0.41	<5	35	409	<8	0.50	<10	279	<10	48	26
127126	13	0.16	8	37	403	<8	0.54	<10	301	<10	65	23
127127	12	0.18	<5	36	458	<8	0.55	<10	320	<10	61	24
127128	10	0.03	7	38	385	<8	0.61	<10	322	13	71	24
127129	12	0.30	<5	43	363	<8	0.57	<10	327	<10	60	25
127130	8	1.17	7	30	263	<8	0.47	<10	272	12	45	22
127131	15	4.56	<5	23	304	<8	0.43	<10	258	<10	47	20
127132	14	1.33	6	21	634	<8	0.45	<10	206	10	32	26
127133	13	0.24	<5	24	587	<8	0.50	17	235	<10	39	23
127134	11	0.21	<5	23	512	<8	0.50	11	245	<10	46	20
127135	14	0.19	7	25	481	<8	0.49	<10	251	10	54	19
127136	13	0.14	9	32	522	<8	0.45	<10	250	<10	58	24
127137	8	0.13	12	27	492	<8	0.47	11	236	<10	51	24
127138	15	0.06	8	20	553	<8	0.50	<10	214	<10	50	21
127139	12	0.28	<5	20	416	<8	0.48	<10	211	<10	39	21

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Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610183

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 13 columns: Sample ID, ICP-230 Pb ppm, ICP-230 S %, ICP-230 Sb ppm, ICP-230 Sc ppm, ICP-230 Sr ppm, ICP-230 Th ppm, ICP-230 Ti %, ICP-230 Tl ppm, ICP-230 V ppm, ICP-230 W ppm, ICP-230 Zn ppm, ICP-230 Zr ppm. Rows include sample IDs 127140 through 127159.

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127160	13	1.25	<5	23	403	<8	0.30	<10	542	<10	76	22
127161	9	0.36	8	38	444	<8	0.45	<10	319	<10	56	30
127162	11	0.47	<5	17	269	<8	0.38	<10	227	<10	47	26
127163	17	0.53	<5	30	533	<8	0.42	<10	281	11	60	34
127164	10	0.65	6	29	680	<8	0.41	<10	261	<10	56	28
127165	11	1.34	10	27	727	<8	0.38	<10	284	<10	63	24
127166	7	0.38	<5	31	553	<8	0.40	<10	312	<10	57	27
127167	5	0.32	6	34	374	<8	0.46	<10	306	<10	56	27
127168	7	0.26	<5	32	471	<8	0.46	<10	322	<10	58	25
127169	6	0.34	<5	28	477	<8	0.44	<10	371	<10	59	24
127170	9	0.54	<5	30	400	<8	0.45	<10	439	<10	71	24
127171	10	0.58	<5	30	375	<8	0.44	<10	564	10	75	22
DUP 127067												
DUP 127080												
DUP 127157												
DUP 127047	17	0.37	<5	28	429	<8	0.43	<10	252	<10	57	18
DUP 127068	11	0.26	<5	43	402	<8	0.43	11	297	<10	53	25

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610183</b>
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Project Name: Hat  
 Job Received Date: 21-Nov-2016  
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	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Sample ID	2	0.01	5	2	1	8	0.01	10	1	10	2	5
DUP 127078	13	0.10	<5	25	335	<8	0.43	<10	297	<10	23	45
DUP 127113	12	0.72	<5	31	437	<8	0.50	<10	257	<10	38	34
DUP 127131												
STD BLANK												
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD OxA131												
STD CDN-GS-P4C												
STD CDN-GS-2R												
STD OREAS 601	342	1.12	30	5	249	12	0.19	<10	27	13	1329	156
STD GBM908-10	1992	0.38	<5	19	312	17	0.67	<10	146	<10	1054	138
STD CDN-CM-38	138	5.22	5	5	88	<8	0.11	<10	59	<10	849	10
STD OREAS 601	344	1.05	33	5	240	9	0.18	<10	27	<10	1302	149
STD OREAS 504												

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**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
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Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610184**

Project Name:  
Job Received Date: 21-Nov-2016  
Job Report Date: 07-Dec-2016  
Report Version: Final

**COMMENTS:**

NR indicates sample not received.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
---------------------------------	-------------------

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
2599214	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599215	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599216	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599217	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599218	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599219	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599220	Core	5.34		0.012	<0.5	8.57	<5	69	0.8	<2	4.73	<0.5	17
2599221	Core	2.61		<0.005	<0.5	5.95	6	110	0.7	<2	8.24	<0.5	27
2599222	Core	0.51		<0.005	<0.5	5.39	<5	108	<0.5	4	8.87	<0.5	18
2599223	Core	4.32		0.013	0.5	1.94	11	33	0.7	6	5.48	<0.5	38
2599224	Core	5.28		0.010	<0.5	7.79	<5	204	<0.5	<2	8.71	<0.5	22
2599225	Core	6.67		0.022	<0.5	9.60	15	157	0.5	<2	7.43	<0.5	39
2599226	Core	8.48		0.031	<0.5	9.83	29	209	<0.5	<2	6.37	<0.5	56
2599227	Core	6.10		<0.005	<0.5	8.87	5	270	<0.5	<2	7.32	<0.5	20
2599228	Core	6.43		0.005	<0.5	8.71	<5	203	<0.5	3	7.17	<0.5	17
2599229	Core	6.42		0.006	<0.5	8.76	<5	169	0.5	<2	8.12	<0.5	16
2599230	Pulp	0.05		0.784	12.8	5.37	1149	320	0.7	18	7.59	9.6	58
2599231	Core	6.72		<0.005	<0.5	8.42	<5	86	0.6	<2	8.78	<0.5	18
2599232	Core	6.25		<0.005	<0.5	8.01	<5	209	<0.5	<2	7.23	<0.5	15
2599233	Core	6.25		<0.005	<0.5	9.07	<5	169	<0.5	<2	8.79	<0.5	11
2599234	Core	6.93		<0.005	0.6	8.87	<5	168	<0.5	<2	9.05	<0.5	15
2599235	Core	4.66		<0.005	0.7	10.29	<5	196	<0.5	3	8.36	0.5	12
2599236	Core	5.54		<0.005	0.6	9.13	<5	24	0.7	<2	8.29	<0.5	13
2599237	Core	6.85		<0.005	0.8	9.07	<5	231	<0.5	<2	7.82	<0.5	19
2599238	Core	3.80		0.249	<0.5	9.21	6	116	<0.5	<2	11.67	<0.5	11

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
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Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
2599239	Core	4.14		0.006	0.8	7.67	<5	103	<0.5	<2	12.46	<0.5	10
2599240	Core	4.92		<0.005	3.6	9.12	<5	231	<0.5	5	9.64	<0.5	18
2599241	Core	4.29		0.006	<0.5	8.71	<5	265	<0.5	<2	10.41	<0.5	15
2599242	Core	6.20		<0.005	<0.5	7.34	<5	855	1.1	<2	1.75	<0.5	4
2599243	Core	3.73		<0.005	<0.5	7.99	<5	88	0.6	<2	7.32	<0.5	15
2599244	Core	2.29		<0.005	0.6	8.39	<5	122	0.6	<2	8.66	<0.5	15
2599245	Core	7.46		<0.005	1.4	8.35	<5	130	0.6	<2	9.52	<0.5	17
2599246	Core	4.77		0.006	<0.5	8.37	<5	196	<0.5	<2	9.43	<0.5	23
2599247	Core	4.47		0.006	<0.5	7.98	<5	210	0.5	<2	8.81	<0.5	25
2642894	Core	5.87		<0.005	<0.5	7.63	<5	114	<0.5	<2	10.83	<0.5	22
2642895	Core	5.80		<0.005	<0.5	7.97	<5	149	<0.5	<2	10.66	<0.5	16
2642896	Core	4.41		<0.005	<0.5	6.24	<5	111	<0.5	<2	12.45	<0.5	23
2642897	Core	5.27		<0.005	0.7	5.54	<5	124	<0.5	<2	11.18	0.5	23
2642898	Core	5.70		<0.005	<0.5	8.73	<5	166	<0.5	<2	10.67	0.8	19
2642899	Core	5.50		0.006	<0.5	6.57	<5	163	<0.5	<2	12.83	<0.5	20
2642900	Core	4.41		<0.005	<0.5	8.54	<5	130	<0.5	<2	10.78	<0.5	27
2642901	Core	3.07		0.008	<0.5	6.53	<5	122	<0.5	<2	9.31	<0.5	32
2642902	Pulp	5.68		1.353	32.1	7.03	24	849	1.0	<2	1.77	<0.5	8
2642903	Core	0.05		0.021	<0.5	7.88	<5	207	0.5	<2	7.35	<0.5	33
2642904	Core	4.26		0.024	<0.5	7.83	<5	135	<0.5	<2	9.75	<0.5	32
2642905	Core	5.67		<0.005	<0.5	7.69	<5	139	<0.5	<2	12.51	<0.5	18
2642906	Core	5.08		0.007	<0.5	7.87	<5	154	<0.5	<2	9.87	<0.5	31
2642907	Core	5.80		0.021	<0.5	7.80	<5	183	<0.5	<2	8.03	<0.5	23
2642908	Core	5.88		0.007	<0.5	8.99	<5	188	<0.5	<2	7.53	<0.5	22
2642909	Core	3.58		0.012	<0.5	8.82	<5	172	<0.5	<2	8.65	<0.5	23

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610184**

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
2642910	Core	6.61		0.009	<0.5	9.29	<5	180	0.5	<2	9.51	<0.5	16
2642911	Core	6.75		<0.005	<0.5	8.11	<5	172	<0.5	<2	11.69	<0.5	13
2642912	Core	6.21		0.008	<0.5	6.59	<5	109	0.5	<2	12.01	<0.5	15
2642913	Core	5.34		0.015	<0.5	7.04	<5	121	0.5	<2	11.12	<0.5	10
2642914	Core	6.24		0.014	<0.5	8.59	<5	117	1.0	<2	5.07	<0.5	15
2642915	Core	5.36		<0.005	3.5	8.81	<5	69	0.9	<2	6.79	<0.5	16
2642916	Core	2.81		0.006	<0.5	9.23	<5	86	1.0	<2	6.00	<0.5	18
2642917	Core	2.01		0.008	<0.5	9.44	<5	68	1.0	<2	6.31	<0.5	18
2642918	Core	NR		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2642919	Core	6.34		0.031	<0.5	8.80	<5	128	0.5	<2	8.29	<0.5	13
DUP 2642896				<0.005									
DUP 2642901				0.008									
DUP 2599221					0.5	5.96	10	111	0.7	<2	8.31	<0.5	26
DUP 2642899					0.6	6.70	<5	166	<0.5	<2	13.14	<0.5	20
STD BLANK				<0.005									
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD CDN-GS-P4C				0.386									
STD OREAS 24b					<0.5	7.73	6	708	2.6	<2	1.01	<0.5	15
STD GBM908-10					3.1	7.12	59	1052	1.5	2	3.81	2.0	25

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610184**

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
2599214	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599215	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599216	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599217	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599218	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599219	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599220	30	508	5.87	26	0.24	<10	1.60	587	<1	4.52	15	1327
2599221	118	348	8.00	22	0.36	<10	3.26	1728	1	1.39	40	1557
2599222	29	107	9.89	24	0.40	<10	3.97	1899	<1	0.75	29	1185
2599223	18	317	31.63	65	0.11	<10	2.93	1531	<1	0.26	71	4313
2599224	37	121	8.74	27	0.55	<10	2.86	1378	<1	1.69	19	888
2599225	36	909	5.49	23	0.42	<10	2.45	742	<1	2.56	61	1169
2599226	46	1012	7.09	24	0.46	<10	2.40	849	<1	2.72	66	1373
2599227	27	89	7.37	25	0.49	<10	2.30	1068	<1	2.43	10	1435
2599228	23	50	5.99	23	0.57	<10	2.19	1314	<1	2.48	11	1643
2599229	35	24	6.52	23	0.47	<10	2.21	1702	<1	2.36	11	1410
2599230	35	9168	6.41	17	1.54	<10	1.19	1917	325	1.26	22	698
2599231	23	55	7.72	27	0.28	<10	1.92	1738	<1	1.24	14	954
2599232	35	44	6.20	21	0.62	<10	2.48	1395	<1	2.27	11	1225
2599233	29	81	4.37	22	0.44	<10	2.11	884	<1	2.32	11	1374
2599234	23	36	5.77	23	0.39	<10	2.43	933	<1	1.68	10	1754
2599235	25	26	3.89	21	0.47	<10	2.16	747	<1	2.75	9	1783
2599236	19	3	4.49	26	0.04	<10	2.11	1474	<1	3.30	9	1428
2599237	30	35	6.92	27	0.70	<10	2.96	1501	<1	2.45	15	1221
2599238	39	9	8.48	38	0.37	<10	2.08	1845	<1	1.00	16	1500

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
---------------------------------	-------------------

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
2599239	36	12	4.53	22	0.32	<10	3.10	1299	<1	1.64	13	5685
2599240	44	40	5.81	22	0.67	<10	3.42	1050	<1	1.84	18	1695
2599241	33	60	4.50	24	1.04	<10	3.70	911	<1	1.60	14	1160
2599242	92	7	2.09	14	1.84	<10	0.56	664	1	3.32	<1	445
2599243	13	33	5.24	22	0.40	<10	1.80	1447	<1	1.53	7	1152
2599244	34	13	6.07	25	0.37	<10	2.68	1311	<1	2.41	10	933
2599245	36	6	6.76	27	0.38	<10	3.24	1207	<1	2.43	17	1301
2599246	45	45	9.79	37	0.56	<10	3.53	1607	<1	1.56	24	589
2599247	32	9	8.77	29	0.61	<10	3.92	3087	<1	1.70	22	540
2642894	69	22	5.73	20	0.27	<10	4.85	956	<1	1.67	25	292
2642895	52	19	4.85	20	0.28	<10	4.01	889	<1	2.01	20	636
2642896	59	22	6.63	21	0.24	<10	5.01	1284	<1	1.28	24	316
2642897	92	43	7.28	23	0.20	<10	5.19	1094	<1	1.06	25	236
2642898	34	19	6.69	24	0.20	<10	3.70	807	<1	1.33	17	250
2642899	37	68	4.43	21	0.13	<10	3.71	985	<1	1.22	16	396
2642900	40	37	6.56	24	0.22	<10	4.57	898	<1	1.60	21	1007
2642901	56	46	11.82	31	0.25	<10	5.00	1178	<1	1.58	25	278
2642902	30	3078	2.82	17	2.13	<10	0.24	438	404	2.40	18	402
2642903	35	52	18.71	43	0.30	<10	2.75	1228	<1	1.46	35	114
2642904	59	31	10.18	29	0.26	<10	4.13	1185	<1	1.41	25	241
2642905	29	22	4.46	20	0.21	<10	2.87	1226	<1	1.28	10	722
2642906	54	114	7.68	25	0.29	<10	3.96	1272	<1	1.60	18	419
2642907	25	32	8.12	24	0.35	<10	3.60	1138	<1	2.29	13	1356
2642908	33	55	7.29	25	0.31	<10	3.21	939	<1	2.54	16	1693
2642909	35	74	6.83	25	0.30	<10	3.52	1100	<1	2.13	16	1625

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 Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
---------------------------------	-------------------

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
2642910	19	17	5.15	26	0.37	<10	3.11	907	<1	2.30	13	1906
2642911	33	18	3.60	20	0.32	<10	3.34	967	<1	2.05	14	1071
2642912	27	40	6.95	27	0.34	<10	4.23	1029	<1	1.66	19	4770
2642913	25	6	4.97	23	0.41	<10	3.28	1472	<1	1.92	15	1461
2642914	16	86	5.61	24	0.41	<10	1.97	1030	<1	4.21	3	1566
2642915	14	83	5.47	26	0.25	<10	1.92	1253	<1	4.10	4	1569
2642916	16	101	5.90	28	0.20	<10	2.03	1302	<1	3.91	4	1621
2642917	14	117	6.12	27	0.18	<10	2.13	1219	<1	3.78	5	1651
2642918	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2642919	41	52	5.29	23	0.43	<10	2.68	863	<1	2.01	11	859
DUP 2642896												
DUP 2642901												
DUP 2599221	121	344	8.08	22	0.36	<10	3.29	1741	<1	1.40	44	1578
DUP 2642899	37	69	4.53	20	0.13	<10	3.78	1007	<1	1.24	15	395
STD BLANK												
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD CDN-GS-P4C												
STD OREAS 24b	115	37	4.38	26	2.86	24	1.67	434	4	0.83	61	709
STD GBM908-10	135	3610	5.73	28	2.24	30	1.94	790	62	2.27	2122	993

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An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
---------------------------------	-------------------

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
2599214	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599215	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599216	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599217	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599218	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599219	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2599220	11	0.69	<5	20	355	<8	0.36	<10	234	<10	26	41
2599221	9	0.32	<5	22	237	<8	0.33	<10	296	<10	69	42
2599222	13	0.03	5	30	151	<8	0.34	<10	521	<10	75	17
2599223	25	0.06	8	16	93	<8	0.29	19	2277	<10	98	16
2599224	12	0.04	<5	35	449	<8	0.48	<10	542	<10	52	20
2599225	11	0.55	8	30	585	<8	0.45	<10	374	<10	33	16
2599226	14	1.16	11	30	630	<8	0.45	<10	316	<10	45	15
2599227	10	0.07	<5	29	565	<8	0.47	<10	330	<10	41	19
2599228	9	0.06	<5	27	506	<8	0.47	<10	342	<10	37	19
2599229	10	0.06	6	28	505	<8	0.45	<10	355	<10	42	20
2599230	113	1.63	31	8	378	<8	0.17	<10	78	12	1413	28
2599231	12	0.10	6	32	221	<8	0.41	<10	311	<10	53	18
2599232	11	0.04	9	27	456	<8	0.46	<10	325	<10	34	17
2599233	10	0.03	7	27	555	<8	0.49	<10	333	<10	26	18
2599234	10	0.03	6	29	597	<8	0.53	<10	392	<10	28	18
2599235	8	0.04	<5	22	753	<8	0.45	<10	317	<10	40	18
2599236	19	0.01	<5	29	167	<8	0.46	<10	333	<10	50	49
2599237	8	0.03	7	30	604	<8	0.50	<10	387	<10	45	18
2599238	9	0.03	8	20	1175	<8	0.55	<10	694	<10	42	20

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Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610184

Project Name:
Job Received Date: 21-Nov-2016
Job Report Date: 07-Dec-2016
Report Version: Final

Table with 13 columns: Sample ID, ICP-230 Pb ppm, ICP-230 S %, ICP-230 Sb ppm, ICP-230 Sc ppm, ICP-230 Sr ppm, ICP-230 Th ppm, ICP-230 Ti %, ICP-230 Tl ppm, ICP-230 V ppm, ICP-230 W ppm, ICP-230 Zn ppm, ICP-230 Zr ppm. Rows include sample IDs from 2599239 to 2642909.

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610184</b>
---------------------------------	-------------------

Project Name:  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 07-Dec-2016  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
2642910	10	0.05	<5	26	581	<8	0.44	<10	331	<10	32	17
2642911	9	0.07	8	33	529	<8	0.44	<10	299	<10	19	18
2642912	6	0.03	<5	33	428	<8	0.42	<10	530	<10	24	20
2642913	8	<0.01	<5	38	539	<8	0.48	<10	377	<10	28	19
2642914	7	0.02	6	19	332	<8	0.40	<10	277	<10	54	53
2642915	11	0.03	7	20	395	<8	0.38	<10	262	<10	52	53
2642916	12	0.04	<5	21	400	<8	0.40	<10	283	<10	56	53
2642917	14	0.04	<5	21	342	<8	0.41	<10	309	<10	54	56
2642918	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2642919	31	0.05	<5	37	475	<8	0.48	<10	322	<10	35	21
DUP 2642896												
DUP 2642901												
DUP 2599221	14	0.32	8	22	238	<8	0.33	<10	296	<10	70	42
DUP 2642899	6	0.09	6	49	443	<8	0.63	<10	481	<10	23	20
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD CDN-GS-P4C												
STD OREAS 24b	29	0.19	13	15	126	15	0.45	<10	109	<10	108	134
STD GBM908-10	1975	0.38	9	18	300	14	0.66	<10	142	<10	1060	141

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Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610195**

Project Name: Hat  
Job Received Date: 21-Nov-2016  
Job Report Date: 05-Jan-2017  
Report Version: Final

**COMMENTS:**

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610195</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127001	Core	2.28		0.047		0.7	8.49	<5	722	0.7	<2	3.73	<0.5
127002	Core	4.77		0.085		0.6	9.02	<5	505	0.7	<2	3.08	<0.5
127003	Core	5.76		0.555	10629	11.6	7.20	32	1511	0.6	18	3.45	1.3
127004	Core	3.50		0.144		0.7	8.46	<5	544	0.7	<2	4.75	1.6
127005	Core	1.87		0.036		<0.5	9.44	<5	1764	0.7	3	5.21	<0.5
127006	Core	7.42		0.158		1.4	8.30	<5	1546	0.6	7	3.05	0.7
127007	Core	3.73		0.353		0.9	8.91	<5	313	0.7	4	3.79	<0.5
127008	Core	3.80		1.092		0.9	8.99	<5	306	0.6	<2	4.19	<0.5
127009	Core	3.71		1.240		1.2	8.30	<5	236	0.7	<2	4.72	<0.5
127010	Core	4.62		0.472		1.3	8.27	<5	363	0.6	4	4.30	<0.5
127011	Core	6.63		0.138		<0.5	7.87	<5	313	0.6	2	5.64	<0.5
127012	Core	6.80		0.052		0.8	9.01	11	485	0.7	<2	3.74	<0.5
127013	Core	7.34		0.012		<0.5	8.13	<5	604	0.7	4	5.32	<0.5
127014	Core	7.71		0.011		<0.5	8.27	<5	263	0.7	2	6.67	<0.5
127015	Core	6.12		0.040		<0.5	7.95	<5	214	0.6	4	5.99	0.5
127016	Core	4.95		0.010		<0.5	9.38	<5	244	0.8	<2	4.65	<0.5
127017	Core	4.91		0.060		0.8	7.06	<5	953	0.6	4	4.66	<0.5
127018	Core	6.86		0.233		2.3	7.86	<5	886	0.8	2	4.78	<0.5
127019	Core	4.94		0.070		1.9	7.92	<5	491	0.7	8	4.21	<0.5
127020	Core	6.27		0.016		<0.5	8.17	<5	632	0.7	<2	4.70	<0.5

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610195</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127021	Core	0.92		0.017		<0.5	7.98	<5	495	0.7	4	5.34	<0.5
127022	Core	8.08		0.055		1.2	8.06	<5	509	0.6	10	5.15	<0.5
127023	Core	6.98		0.064		0.7	9.10	<5	545	0.7	3	5.55	<0.5
127024	Core	8.20		0.038		<0.5	8.12	<5	175	0.6	4	5.93	0.5
127025	Core	7.13		0.038		<0.5	10.23	<5	552	0.8	<2	4.73	<0.5
127026	Core	4.01		0.063		<0.5	8.50	<5	722	0.7	3	5.13	<0.5
127027	Core	5.20		0.055		<0.5	8.96	<5	319	0.6	<2	5.65	<0.5
127028	Core	6.71		0.008		<0.5	12.01	<5	338	0.7	<2	5.07	<0.5
127029	Core	4.22		0.008		<0.5	10.77	<5	91	0.7	2	3.06	<0.5
127030	Pulp	0.05		0.833		12.5	5.56	1122	629	0.7	28	7.54	8.7
127031	Core	3.11		0.476	23495	26.7	6.78	66	773	<0.5	9	5.46	13.0
127032	Core	7.80		0.011		0.5	8.68	<5	342	0.8	5	5.06	<0.5
127033	Core	6.58		0.011		<0.5	8.52	<5	321	0.8	4	5.74	<0.5
127034	Core	3.71		0.025		0.5	8.74	<5	340	0.6	<2	5.37	<0.5
127035	Core	6.38		0.020		<0.5	8.59	<5	373	0.6	<2	5.12	<0.5
127036	Core	1.30		0.009		<0.5	8.48	<5	1004	0.7	<2	5.73	<0.5
127037	Core	4.76		0.005		<0.5	7.63	5	1494	1.0	3	7.28	<0.5
127038	Core	7.77		0.093		0.5	8.47	<5	374	0.7	3	4.59	0.6
127039	Core	7.44		0.008		<0.5	8.54	<5	577	0.7	<2	4.17	0.7
127040	Core	0.62		0.008		<0.5	7.10	<5	828	1.0	<2	1.51	0.5

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 Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610195</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127041	Core	6.14		0.023		0.6	8.64	6	327	0.7	3	3.52	1.2
127042	Core	6.17		0.037		0.6	7.94	<5	299	0.7	3	4.25	<0.5
127043	Core	7.18		0.039		0.9	8.32	<5	1365	0.8	<2	4.72	0.6
127044	Core	4.19		0.013		<0.5	8.41	5	1117	0.7	4	4.37	<0.5
DUP 127013				0.014									
DUP 127042				0.040									
DUP 127002						0.7	9.06	<5	507	0.7	5	3.07	<0.5
DUP 127035						<0.5	8.55	<5	374	0.6	<2	5.08	<0.5
DUP 127031					23672								
STD BLANK				<0.005									
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK					<10								
STD CDN-GS-P4C				0.340									
STD GBM908-10						2.9	7.31	58	1066	1.5	3	3.74	1.8
STD OREAS 904						<0.5	6.39	100	201	8.0	<2	0.05	<0.5
STD OREAS 504					11340								

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V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610195

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 05-Jan-2017
Report Version: Final

Table with 14 columns (Sample ID, Co, Cr, Cu, Fe, Ga, K, La, Mg, Mn, Mo, Na, Ni, P) and 20 rows of data.

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610195</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127021	43	114	221	8.52	25	1.26	<10	3.48	1901	1	2.57	41	789
127022	108	97	1708	9.91	25	1.21	<10	3.30	1933	4	2.66	40	747
127023	74	68	944	7.27	24	1.32	<10	2.76	1071	5	3.07	35	1185
127024	39	101	547	8.02	23	0.67	<10	3.46	1029	2	2.94	40	1074
127025	90	36	785	7.81	24	1.20	25	2.62	1041	2	3.44	22	1035
127026	91	87	700	9.54	30	1.16	15	3.11	1128	13	2.53	40	914
127027	41	58	517	7.60	27	1.09	<10	3.08	875	3	2.82	31	862
127028	24	39	131	6.63	24	1.25	<10	2.48	1024	<1	3.56	18	1122
127029	66	27	181	3.79	18	0.46	<10	1.63	605	5	5.36	11	969
127030	58	34	8869	6.51	19	1.56	<10	1.19	1877	311	1.24	24	715
127031	322	29	>10000	12.04	29	1.66	<10	1.91	2514	23	1.57	65	886
127032	48	66	580	7.93	26	1.00	<10	2.97	1441	3	3.14	32	1150
127033	44	103	159	7.79	26	0.91	<10	3.41	1264	2	2.99	37	1038
127034	41	27	325	6.56	22	1.04	<10	2.35	890	2	3.18	14	1230
127035	30	27	216	6.27	22	1.06	<10	2.15	950	3	3.43	15	1139
127036	21	60	149	6.35	19	2.00	<10	2.15	1071	<1	2.67	19	1530
127037	26	103	104	6.10	18	2.17	<10	3.00	1134	<1	2.09	39	1716
127038	63	40	764	6.86	20	0.93	<10	2.45	1015	2	3.76	22	1106
127039	54	38	591	7.35	22	1.25	<10	2.47	1431	4	3.54	19	1175
127040	4	122	22	2.09	12	1.74	<10	0.52	622	2	3.25	<1	419

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610195</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127041	77	28	1238	7.77	21	0.74	<10	2.19	1506	5	3.95	21	1088
127042	92	104	739	8.93	23	0.71	<10	2.74	1066	5	3.35	37	1286
127043	84	66	1450	8.28	24	1.87	<10	2.67	1060	5	2.67	28	1184
127044	70	36	666	8.08	23	2.16	<10	2.28	1217	10	2.65	18	1044
DUP 127013													
DUP 127042													
DUP 127002	67	36	620	8.50	24	1.33	<10	2.49	1428	11	3.52	17	1086
DUP 127035	29	26	215	6.26	23	1.05	<10	2.14	949	3	3.45	15	1135
DUP 127031													
STD BLANK													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD CDN-GS-P4C													
STD GBM908-10	24	130	3597	5.84	25	2.20	28	1.91	781	64	2.22	2153	1011
STD OREAS 904	81	54	6109	6.63	20	3.12	25	0.56	402	2	0.03	37	990
STD OREAS 504													

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610195**

Project Name: Hat  
Job Received Date: 21-Nov-2016  
Job Report Date: 05-Jan-2017  
Report Version: Final

Sample ID	ICP-230 Pb ppm 2	ICP-230 S % 0.01	ICP-230 Sb ppm 5	ICP-230 Sc ppm 2	ICP-230 Sr ppm 1	ICP-230 Th ppm 8	ICP-230 Ti % 0.01	ICP-230 Tl ppm 10	ICP-230 V ppm 1	ICP-230 W ppm 10	ICP-230 Zn ppm 2	ICP-230 Zr ppm 5
127001	12	2.51	<5	26	333	<8	0.47	<10	235	<10	65	32
127002	10	2.01	<5	24	379	<8	0.46	<10	244	<10	59	33
127003	22	4.17	<5	26	219	<8	0.41	<10	252	<10	570	27
127004	9	0.67	<5	27	252	<8	0.41	<10	217	<10	492	26
127005	9	0.19	<5	20	594	<8	0.44	<10	255	<10	117	42
127006	19	2.67	<5	25	278	<8	0.43	12	246	<10	213	27
127007	13	2.42	<5	27	404	<8	0.50	<10	259	<10	87	26
127008	9	2.54	6	29	397	<8	0.47	<10	284	<10	90	38
127009	12	3.70	<5	26	312	<8	0.47	<10	241	<10	197	26
127010	11	1.80	<5	29	352	<8	0.48	<10	244	<10	109	27
127011	13	1.50	<5	31	319	<8	0.44	<10	264	<10	42	30
127012	14	1.45	<5	21	353	<8	0.43	<10	222	<10	107	48
127013	9	0.82	<5	26	367	<8	0.44	<10	279	<10	56	31
127014	13	0.56	<5	28	329	<8	0.42	<10	225	<10	61	30
127015	14	0.40	<5	27	386	<8	0.41	<10	204	<10	79	28
127016	15	0.86	7	20	410	<8	0.43	<10	191	<10	52	28
127017	16	3.18	<5	24	303	<8	0.37	<10	207	<10	52	28
127018	16	2.71	<5	19	377	<8	0.37	<10	206	<10	109	37
127019	12	1.82	6	24	376	<8	0.40	<10	207	<10	129	22
127020	13	0.33	<5	26	394	<8	0.42	<10	213	<10	64	21

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



An A2 Global Company

MS Analytical
Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610195

Project Name: Hat
Job Received Date: 21-Nov-2016
Job Report Date: 05-Jan-2017
Report Version: Final

Table with 13 columns: Sample ID, ICP-230 Pb ppm, ICP-230 S %, ICP-230 Sb ppm, ICP-230 Sc ppm, ICP-230 Sr ppm, ICP-230 Th ppm, ICP-230 Ti %, ICP-230 Tl ppm, ICP-230 V ppm, ICP-230 W ppm, ICP-230 Zn ppm, ICP-230 Zr ppm. Rows include sample IDs 127021 through 127040.

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



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**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610195**

Project Name: Hat  
 Job Received Date: 21-Nov-2016  
 Job Report Date: 05-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127041	16	0.89	8	16	294	<8	0.41	<10	209	<10	255	38
127042	10	1.19	6	18	296	<8	0.42	<10	235	<10	67	32
127043	14	0.80	6	18	370	<8	0.43	<10	218	<10	85	29
127044	12	0.79	<5	16	487	<8	0.41	<10	207	<10	51	30
DUP 127013												
DUP 127042												
DUP 127002	13	2.01	<5	24	382	<8	0.46	<10	245	<10	57	32
DUP 127035	10	0.23	<5	15	486	<8	0.43	<10	220	<10	43	29
DUP 127031												
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD CDN-GS-P4C												
STD GBM908-10	1931	0.38	7	18	304	16	0.68	<10	141	<10	1016	130
STD OREAS 904	16	0.06	<5	11	29	19	0.22	<10	77	<10	28	174
STD OREAS 504												

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**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610279**

Project Name: Hat  
Job Received Date: 09-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

**SAMPLE PREPARATION**

METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

**ANALYTICAL METHODS**

METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127172	Core	7.89		0.018		<0.5	6.01	<5	109	0.6	5	6.49	<0.5
127173	Core	7.90		0.040		0.5	7.71	<5	104	0.6	3	6.27	<0.5
127174	Core	6.97		0.011		0.6	7.82	<5	85	0.6	<2	6.60	<0.5
127175	Core	7.81		0.047		0.7	8.19	<5	101	0.6	2	7.73	<0.5
127176	Core	7.77		0.061		0.5	9.21	<5	179	0.6	<2	5.74	<0.5
127177	Core	6.95		0.029		0.8	9.44	<5	70	0.7	<2	5.75	<0.5
127178	Core	7.83		0.033		1.1	8.51	<5	46	0.8	5	8.12	<0.5
127179	Core	8.50		0.159		0.7	8.07	<5	135	0.6	<2	6.32	<0.5
127180	Core	0.63		<0.005		<0.5	7.28	<5	882	1.0	<2	1.60	<0.5
127181	Core	5.11		0.103		0.6	8.09	<5	139	0.6	4	5.85	<0.5
127182	Core	10.19		0.182		0.8	7.83	<5	130	0.7	6	7.01	<0.5
127183	Core	5.65		0.065		0.6	8.20	<5	172	0.7	4	6.31	<0.5
127184	Core	5.06		0.151		0.7	7.79	<5	138	0.6	<2	6.42	<0.5
127185	Core	6.24		0.096		0.6	7.09	<5	86	0.7	6	6.10	<0.5
127186	Core	7.13		0.489		1.9	3.52	<5	35	0.7	8	5.43	<0.5
127187	Core	7.69		0.234		2.1	5.27	<5	57	0.8	7	5.10	0.5
127188	Core	7.12		0.051		<0.5	8.03	<5	109	0.6	4	5.31	<0.5
127189	Core	7.52		0.059		0.6	8.77	<5	119	0.6	2	6.78	<0.5
127190	Core	4.44		0.023		<0.5	9.33	<5	131	0.5	<2	7.77	<0.5
127191	Core	4.02		0.021		<0.5	9.56	<5	122	0.6	<2	8.89	<0.5
127192	Core	7.30		0.162		0.8	8.99	<5	117	0.6	<2	8.06	<0.5
127193	Core	7.28		0.086		0.7	8.57	<5	101	0.5	<2	8.63	<0.5
127194	Core	9.92		0.057		<0.5	6.17	<5	77	0.6	4	8.82	<0.5
127195	Core	3.91		0.026		<0.5	6.02	<5	118	0.6	<2	9.30	<0.5
127196	Core	8.10		0.175		1.4	6.41	<5	100	0.7	<2	6.52	<0.5

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127197	Core	6.48		0.275		1.3	6.00	<5	88	0.7	<2	5.44	<0.5
127198	Core	7.43		0.054		0.8	8.45	<5	185	0.6	2	6.93	<0.5
127199	Core	6.68		0.035		0.5	8.69	<5	173	0.5	<2	7.00	<0.5
127200	Core	7.88		0.128		0.8	6.60	<5	98	0.7	<2	5.67	<0.5
127201	Core	7.74		0.148		<0.5	7.77	<5	172	0.6	<2	6.43	<0.5
127202	Core	6.80		0.073		<0.5	9.05	<5	142	0.6	2	7.60	<0.5
127203	Core	8.73		0.032		<0.5	7.38	<5	168	0.6	4	7.09	<0.5
127204	Core	6.98		0.214		0.6	7.17	<5	90	0.7	7	5.81	<0.5
127205	Core	7.36		0.308		1.1	7.22	<5	126	0.5	6	7.82	<0.5
127206	Core	4.69		0.029		<0.5	8.48	<5	176	0.6	<2	7.27	<0.5
127207	Core	7.25		0.054		<0.5	7.69	<5	118	0.6	5	7.18	<0.5
127208	Core	3.68		0.040		<0.5	7.96	<5	150	0.5	4	6.51	<0.5
127209	Core	3.33		0.712	12280	1.8	4.52	<5	59	0.6	3	5.84	<0.5
127210	Pulp	0.09		0.516		11.8	5.72	1223	745	0.7	14	5.11	<0.5
127211	Core	6.06		0.547		<0.5	3.91	<5	42	0.7	5	6.29	<0.5
127212	Core	7.17		0.015		<0.5	7.54	<5	204	0.5	3	7.38	0.8
127213	Core	6.78		0.005		<0.5	7.36	<5	186	<0.5	<2	7.51	1.1
127214	Core	4.64		0.006		<0.5	8.23	<5	154	<0.5	<2	6.99	<0.5
127215	Core	3.71		0.007		<0.5	7.72	<5	107	0.5	4	7.52	<0.5
127216	Core	4.92		<0.005		<0.5	6.01	<5	90	0.5	<2	7.06	<0.5

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
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Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127217	Core	7.90		<0.005		<0.5	5.73	<5	50	0.7	<2	4.92	<0.5
127218	Core	6.46		0.025		<0.5	8.24	<5	232	0.5	5	6.56	<0.5
127219	Core	6.55		0.022		0.5	8.47	<5	209	0.5	2	6.79	<0.5
127220	Core	6.94		0.013		<0.5	8.57	<5	203	0.5	<2	7.84	<0.5
127221	Core	6.84		0.021		<0.5	7.43	<5	200	<0.5	4	7.93	<0.5
127222	Core	7.82		0.009		<0.5	7.89	<5	151	0.5	<2	7.56	<0.5
127223	Core	3.03		0.010		<0.5	8.06	<5	145	0.5	<2	7.68	<0.5
127224	Core	7.84		0.009		<0.5	9.57	<5	194	0.5	<2	7.65	<0.5
127225	Core	4.34		<0.005		<0.5	8.78	<5	134	0.6	2	8.40	<0.5
127226	Core	3.41		0.018		<0.5	8.77	<5	146	0.6	5	5.95	0.8
127227	Core	5.37		0.006		<0.5	8.66	<5	251	0.6	<2	5.42	<0.5
127228	Core	6.51		<0.005		<0.5	7.62	<5	144	0.7	<2	6.47	<0.5
127229	Core	7.92		0.009		<0.5	8.17	<5	176	0.6	2	7.52	<0.5
127230	Core	4.52		<0.005		<0.5	7.70	<5	113	0.7	<2	7.12	<0.5
127172 PD	QC-PD	--		0.016		<0.5	5.97	<5	107	0.6	3	6.47	<0.5
127202 PD	QC-PD	--		0.058		<0.5	9.11	<5	142	0.6	<2	7.62	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
DUP 127200				0.142									
DUP 127223				0.011									
DUP 127174						0.7	7.86	<5	85	0.6	<2	6.65	<0.5
DUP 127204						<0.5	7.16	<5	91	0.7	<2	5.84	<0.5
DUP 127209					12199								
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK					<10								
STD OxA131				0.072									
STD CDN-GS-2R				2.073									
STD OREAS 601						48.2	6.50	325	1489	2.1	21	1.31	8.5
STD CDN-CM-38						6.2	5.66	37	216	0.6	<2	0.50	5.4
STD OREAS 504					11369								

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127172	43	91	837	17.30	38	0.48	<10	5.03	1168	<1	1.73	85	3768
127173	38	106	837	11.03	32	0.45	<10	4.36	958	1	2.53	58	1102
127174	50	93	1655	8.86	31	0.37	<10	3.89	1205	2	2.93	58	1006
127175	37	97	1112	7.91	29	0.53	<10	3.74	1220	2	2.54	42	1005
127176	43	67	1798	7.77	31	0.68	<10	2.94	725	<1	3.68	45	1133
127177	56	53	2124	7.22	27	0.35	<10	2.20	1062	<1	4.19	48	1331
127178	66	108	3784	11.26	38	0.24	<10	3.33	1140	<1	2.35	67	940
127179	72	112	2836	11.39	34	0.61	<10	3.75	895	<1	2.74	104	1058
127180	4	82	16	2.06	15	1.80	<10	0.52	625	1	3.34	3	448
127181	49	103	1837	10.90	28	0.61	<10	4.13	1212	<1	2.78	68	1071
127182	76	87	3595	10.10	32	0.57	<10	4.02	1062	<1	2.53	125	1071
127183	52	84	1245	9.68	31	0.72	<10	3.78	684	<1	2.84	70	1024
127184	93	102	3133	10.54	31	0.59	<10	4.23	864	<1	2.59	154	1028
127185	61	114	2885	13.01	34	0.43	<10	4.26	1027	<1	2.55	95	1068
127186	151	38	9797	32.14	56	0.16	<10	3.19	1078	6	0.98	200	3114
127187	109	26	9301	27.68	60	0.34	<10	3.31	1194	<1	1.47	126	2390
127188	42	31	2295	15.02	40	0.44	<10	3.03	1674	<1	3.00	58	1267
127189	26	38	1480	10.38	34	0.46	<10	3.07	960	<1	3.03	43	1088
127190	17	31	443	5.40	25	0.51	<10	3.03	757	<1	3.24	35	1146
127191	16	37	231	4.53	25	0.50	<10	2.89	606	<1	2.96	32	1085
127192	18	39	1347	6.83	26	0.51	<10	3.18	1095	<1	2.90	28	1096
127193	51	35	2697	9.34	30	0.43	<10	3.36	971	<1	2.26	38	1054
127194	37	92	1866	10.93	35	0.38	<10	5.48	1040	<1	1.74	78	2664
127195	27	37	758	8.09	27	0.60	<10	5.83	963	<1	2.00	47	5909
127196	137	46	8028	22.59	52	0.47	<10	3.15	1243	<1	1.55	87	2756

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An A2 Global Company

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127197	108	47	7215	25.75	54	0.43	<10	3.47	1124	<1	1.38	99	2796
127198	37	46	2583	10.28	32	0.74	<10	3.48	945	<1	2.51	46	882
127199	40	59	1191	8.56	27	0.64	<10	3.56	1053	<1	2.63	42	798
127200	51	57	3678	20.36	46	0.43	<10	3.15	922	<1	2.20	69	791
127201	44	66	2345	11.95	33	0.68	<10	3.93	798	<1	2.49	61	1133
127202	28	52	1245	7.48	30	0.51	<10	3.35	695	<1	2.86	49	1212
127203	41	129	629	9.88	31	0.59	<10	3.83	923	<1	2.80	51	1032
127204	79	75	3052	15.30	36	0.36	<10	3.30	841	<1	2.51	64	721
127205	161	77	7658	12.15	33	0.45	<10	3.02	798	<1	2.08	71	891
127206	39	59	579	9.10	28	0.55	<10	3.71	783	<1	2.67	38	780
127207	42	57	1393	15.75	43	0.38	<10	2.92	666	<1	2.16	68	2761
127208	34	51	1295	10.55	29	0.52	<10	3.21	784	<1	2.62	37	763
127209	260	199	>10000	23.67	45	0.25	<10	3.57	873	<1	1.33	181	873
127210	47	28	3865	4.44	16	2.20	<10	0.66	1319	192	1.49	21	599
127211	77	211	8752	28.23	57	0.21	75	3.62	964	<1	1.01	137	762
127212	45	131	308	11.09	32	0.54	<10	4.51	1247	<1	2.17	55	2350
127213	40	137	136	9.36	27	0.50	<10	5.05	1255	<1	2.25	60	1494
127214	26	50	396	7.19	28	0.46	<10	4.42	931	<1	2.35	38	1262
127215	37	138	233	7.58	28	0.39	<10	5.45	977	<1	2.07	51	1618
127216	38	190	95	13.08	31	0.40	<10	5.99	1164	<1	1.90	63	2068

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Langley, BC V1M 4B4
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To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1610279

Project Name: Hat
Job Received Date: 09-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, ICP-230 Co ppm, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127217 through 127202 PD.

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
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Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
DUP 127200													
DUP 127223													
DUP 127174	51	105	1660	8.90	26	0.37	<10	3.92	1211	2	2.87	60	978
DUP 127204	79	80	2997	15.35	39	0.36	<10	3.31	842	<1	2.52	63	724
DUP 127209													
STD BLANK													
STD BLANK													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD OxA131													
STD CDN-GS-2R													
STD OREAS 601	5	44	1028	2.50	24	1.99	21	0.39	487	4	1.46	26	469
STD CDN-CM-38	13	16	6880	6.90	20	2.05	<10	0.50	784	182	0.15	16	502
STD OREAS 504													

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**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610279**

Project Name: Hat  
Job Received Date: 09-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127172	13	0.22	6	26	238	<8	0.28	<10	679	<10	67	21
127173	12	0.18	6	34	373	<8	0.47	<10	433	<10	58	27
127174	18	0.32	9	32	540	<8	0.48	13	335	11	79	26
127175	12	0.28	<5	31	447	<8	0.47	<10	276	12	63	24
127176	14	0.46	<5	23	518	<8	0.43	<10	288	<10	55	28
127177	18	0.72	6	14	858	<8	0.41	10	211	<10	92	37
127178	20	0.73	8	28	716	<8	0.42	<10	422	<10	87	24
127179	15	0.92	7	31	387	<8	0.47	<10	395	<10	63	20
127180	9	0.03	<5	7	226	<8	0.21	<10	37	11	38	68
127181	3	0.45	<5	33	425	<8	0.48	12	430	<10	79	22
127182	15	0.99	12	29	438	<8	0.45	<10	473	<10	100	21
127183	15	0.56	<5	27	461	<8	0.43	<10	526	<10	56	21
127184	24	1.00	<5	32	419	<8	0.47	<10	528	<10	83	21
127185	20	0.58	8	30	353	<8	0.43	<10	662	<10	96	21
127186	26	2.15	11	11	159	<8	0.19	17	707	20	102	18
127187	20	1.67	6	12	337	<8	0.19	17	487	<10	212	21
127188	16	0.47	6	17	481	<8	0.35	<10	336	12	86	24
127189	12	0.32	<5	18	398	<8	0.39	<10	271	11	66	25
127190	16	0.13	11	21	361	<8	0.43	12	206	<10	52	24
127191	12	0.10	6	21	449	<8	0.42	<10	179	<10	29	25
127192	13	0.17	<5	31	613	<8	0.51	13	286	11	64	25
127193	16	0.60	<5	27	450	<8	0.44	<10	263	<10	57	23
127194	8	0.34	<5	31	243	<8	0.40	<10	506	<10	63	19
127195	8	0.14	<5	29	301	<8	0.45	<10	453	<10	65	18
127196	19	1.64	9	18	434	<8	0.31	17	616	19	106	18

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127197	26	1.53	5	19	212	<8	0.26	23	539	<10	117	19
127198	12	0.49	5	30	401	<8	0.44	<10	370	<10	51	26
127199	12	0.40	5	33	458	<8	0.44	12	309	<10	56	30
127200	17	0.66	<5	28	307	<8	0.37	13	370	<10	57	26
127201	11	0.48	<5	37	403	<8	0.48	<10	377	11	49	26
127202	13	0.30	<5	28	359	<8	0.43	<10	294	11	36	27
127203	5	0.19	<5	35	372	<8	0.43	<10	291	<10	43	23
127204	13	0.67	<5	33	254	<8	0.42	12	350	16	58	24
127205	10	1.40	6	29	285	<8	0.34	<10	338	17	58	20
127206	10	0.15	5	37	332	<8	0.49	13	400	12	45	27
127207	9	0.27	5	28	315	<8	0.44	<10	563	<10	46	21
127208	9	0.21	<5	37	402	<8	0.46	10	377	<10	55	25
127209	12	2.96	12	24	152	<8	0.19	20	227	<10	74	21
127210	16	0.69	33	4	372	<8	0.12	<10	50	15	118	20
127211	16	1.15	10	28	94	<8	0.25	10	340	16	79	20
127212	12	0.19	<5	54	398	<8	0.76	11	394	<10	100	23
127213	10	0.22	<5	62	384	<8	0.81	11	402	<10	227	25
127214	10	0.09	5	40	294	<8	0.58	<10	314	<10	47	20
127215	5	0.10	6	56	178	<8	0.70	11	348	<10	50	23
127216	11	0.05	<5	66	268	<8	0.79	<10	511	<10	67	26

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127217	15	0.21	13	28	181	<8	0.43	15	882	<10	67	17
127218	8	0.12	6	36	353	<8	0.59	<10	387	12	57	20
127219	11	0.13	<5	32	474	<8	0.57	12	374	<10	97	19
127220	9	0.09	7	39	425	<8	0.61	16	383	<10	51	25
127221	11	0.07	<5	59	468	<8	0.79	10	421	<10	69	21
127222	4	0.07	<5	50	389	<8	0.75	<10	393	11	56	23
127223	12	0.06	<5	50	390	<8	0.76	<10	410	<10	57	23
127224	12	0.08	6	39	631	<8	0.68	<10	380	<10	50	19
127225	7	0.04	<5	40	552	<8	0.68	18	482	14	49	19
127226	8	0.08	<5	22	330	<8	0.42	<10	332	<10	118	31
127227	11	0.01	6	22	657	<8	0.41	14	388	<10	27	31
127228	15	<0.01	9	24	368	<8	0.38	<10	482	<10	35	23
127229	11	0.05	9	41	659	<8	0.56	<10	456	<10	54	21
127230	8	0.02	<5	45	427	<8	0.61	17	548	<10	54	24
127172 PD	13	0.23	6	27	231	<8	0.29	<10	668	<10	66	20
127202 PD	6	0.30	<5	28	322	<8	0.43	<10	291	<10	36	23

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610279</b>
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Project Name: Hat  
 Job Received Date: 09-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
DUP 127200	2	0.01	5	2	1	8	0.01	10	1	10	2	5
DUP 127223												
DUP 127174	15	0.33	<5	32	486	<8	0.48	<10	334	<10	80	22
DUP 127204	10	0.66	6	33	255	<8	0.42	<10	357	<10	58	24
DUP 127209												
STD BLANK												
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD OxA131												
STD CDN-GS-2R												
STD OREAS 601	342	1.07	33	5	228	10	0.19	<10	28	<10	1316	150
STD CDN-CM-38	134	4.94	5	5	79	<8	0.11	<10	56	<10	818	8
STD OREAS 504												

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610280**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 24-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

**SAMPLE PREPARATION**

METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

**ANALYTICAL METHODS**

METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127498	Core	6.78		0.106	0.9	8.69	<5	512	0.6	<2	6.00	<0.5	42
127499	Core	8.02		0.052	0.8	7.80	<5	377	0.6	6	5.99	0.6	41
127500	Core	4.71		0.024	<0.5	8.30	<5	364	0.6	<2	7.43	<0.5	21
127501	Core	4.07		0.034	2.6	8.37	8	1132	0.6	4	4.69	0.6	45
127502	Core	7.29		0.038	<0.5	9.13	<5	1166	0.7	5	4.02	0.7	35
127503	Core	7.13		0.005	1.2	8.22	12	1008	0.7	<2	4.50	<0.5	50
127504	Core	6.89		0.019	0.9	8.78	9	680	0.6	3	5.32	0.6	65
127505	Core	7.29		0.005	0.7	8.35	17	549	0.7	<2	4.49	<0.5	51
127506	Core	5.92		0.007	<0.5	8.35	15	481	0.7	4	4.90	12.4	45
127507	Core	7.82		<0.005	<0.5	8.44	6	693	0.7	<2	4.44	<0.5	39
127508	Core	7.45		<0.005	0.9	8.52	9	698	0.6	5	4.24	<0.5	64
127509	Core	8.52		<0.005	<0.5	9.01	10	380	0.7	5	4.80	<0.5	44
127510	Rock	0.61		<0.005	<0.5	7.30	<5	854	1.0	2	1.51	<0.5	3
127511	Core	8.16		0.050	2.7	8.26	<5	724	0.6	6	5.33	<0.5	62
127512	Core	6.67		<0.005	<0.5	8.56	<5	864	0.6	5	3.50	<0.5	31
127513	Core	4.48		<0.005	<0.5	8.70	<5	435	0.7	3	4.29	<0.5	35
127514	Core	6.80		<0.005	<0.5	8.61	<5	440	0.7	4	4.24	<0.5	55
127515	Core	7.73		<0.005	<0.5	9.02	6	400	0.7	4	4.31	0.6	36
127516	Core	5.12		0.008	2.0	7.07	24	780	0.5	<2	5.87	1.6	87
127517	Core	8.19		<0.005	0.8	8.82	20	1430	0.6	3	3.18	<0.5	61
127518	Core	8.54		<0.005	0.6	9.05	25	511	0.7	<2	3.27	<0.5	73
127519	Core	5.77		<0.005	<0.5	8.92	5	2120	0.7	6	3.49	0.6	50
127520	Core	4.63		<0.005	<0.5	9.43	13	1421	0.7	<2	3.61	<0.5	98
127521	Core	8.02		0.008	1.2	8.91	34	1560	0.7	6	3.00	<0.5	79
127522	Core	4.09		0.013	3.5	8.51	21	161	0.8	3	2.14	<0.5	215

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127523	Core	5.41		0.094	5.7	7.62	24	745	0.6	<2	3.35	<0.5	219
127524	Core	4.53		<0.005	<0.5	9.52	37	471	0.7	3	2.59	<0.5	121
127525	Core	4.61		0.005	0.8	9.71	26	635	0.7	<2	2.88	<0.5	88
127526	Core	4.94		0.020	0.7	9.24	<5	529	0.6	<2	4.27	<0.5	123
127527	Core	8.58		0.066	<0.5	8.63	<5	260	0.6	<2	4.63	<0.5	63
127528	Core	6.57		0.104	0.6	8.89	<5	239	0.6	<2	5.06	<0.5	54
127529	Core	8.04		0.015	<0.5	8.89	<5	163	0.7	<2	5.37	<0.5	18
127530	Core	7.42		0.009	<0.5	8.88	<5	138	0.7	<2	5.64	<0.5	19
127531	Core	5.87		0.005	<0.5	8.38	<5	152	0.6	<2	5.77	<0.5	19
127532	Core	5.29		0.008	<0.5	8.49	<5	270	0.6	5	5.41	<0.5	27
127533	Core	1.78		0.033	1.0	8.58	<5	438	0.6	5	4.44	<0.5	58
127534	Core	7.42		0.024	1.1	9.43	<5	330	0.6	<2	4.50	<0.5	24
127535	Core	8.36		0.013	<0.5	8.72	<5	344	0.6	<2	5.73	<0.5	107
127536	Core	8.46		0.005	<0.5	9.21	<5	149	0.6	<2	4.21	<0.5	43
127537	Core	6.98		0.052	<0.5	8.41	<5	105	0.6	2	4.90	<0.5	57
127538*	Core	7.41		0.017	<0.5	8.48	<5	161	0.6	4	6.12	<0.5	61
127539	Core	7.14		0.010	<0.5	8.57	<5	213	0.7	5	5.75	<0.5	28
127540	Pulp	0.09		0.808	12.1	5.53	1123	603	0.7	29	7.55	8.2	59
127541	Core	8.41		0.017	<0.5	8.66	<5	195	0.6	<2	5.35	<0.5	27
127542	Core	7.09		0.022	<0.5	7.56	<5	566	0.7	3	5.61	<0.5	50
127543	Core	4.62		<0.005	<0.5	7.83	<5	184	0.6	<2	5.51	<0.5	44
127544	Core	7.69		0.138	0.6	8.94	<5	219	0.6	6	4.77	<0.5	59
127545	Core	2.80		<0.005	<0.5	8.72	<5	222	0.6	<2	5.45	<0.5	25
127546	Core	7.12		0.008	0.7	8.03	<5	193	0.6	<2	5.79	<0.5	28
127547	Core	8.04		0.010	<0.5	7.89	<5	215	0.6	3	6.38	<0.5	28

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127548	Core	6.56		0.023	<0.5	8.61	<5	286	0.6	<2	5.89	<0.5	25
127549	Core	7.65		1.432	3.4	8.68	10	130	0.7	5	4.01	0.7	75
127550	Core	8.03		0.221	0.6	9.17	<5	176	0.7	4	4.96	<0.5	39
127551	Core	4.57		0.160	0.6	9.18	<5	271	0.6	7	5.98	<0.5	46
DUP 127501					2.6	8.30	<5	1135	0.6	5	4.69	<0.5	46
DUP 127549					3.3	8.69	12	131	0.6	<2	4.01	0.9	73
DUP 127518				<0.005									
DUP 127542				0.022									
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD BLANK				<0.005									
STD BLANK				<0.005									
STD OREAS 601					48.7	6.35	326	500	2.1	22	1.29	8.0	5
STD OREAS 24b					<0.5	7.86	8	729	2.6	3	1.05	<0.5	15
STD OxA131				0.073									
STD CDN-GS-P4C				0.380									

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**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610280**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 24-Jan-2017  
Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127498	37	1343	7.64	23	1.25	<10	2.82	1777	<1	2.60	20	871
127499	103	1106	8.54	24	0.98	<10	3.89	2236	<1	2.63	38	935
127500	21	197	6.45	22	0.81	<10	2.00	1955	3	3.07	10	1093
127501	34	2846	8.77	26	1.65	<10	2.32	4171	<1	2.15	24	905
127502	30	439	7.73	25	1.62	<10	2.73	3511	<1	3.12	19	963
127503	69	1203	9.18	23	1.67	<10	3.22	4118	2	2.49	31	1023
127504	46	640	8.43	23	1.46	<10	3.01	2497	<1	2.84	39	983
127505	67	693	8.97	23	1.11	<10	3.17	3210	<1	2.85	27	836
127506	70	128	9.12	27	1.10	<10	3.20	3079	1	2.78	29	891
127507	81	272	8.60	24	1.39	<10	3.41	2684	3	2.93	27	882
127508	59	645	9.73	25	1.49	<10	3.20	3250	1	2.63	32	914
127509	29	159	9.14	25	0.97	<10	3.18	2995	4	2.85	20	870
127510	79	7	2.00	16	1.90	<10	0.49	603	1	3.38	4	419
127511	68	2493	9.07	24	1.55	<10	3.40	2698	3	2.56	38	946
127512	56	68	9.35	25	2.00	<10	3.06	3680	2	2.84	25	886
127513	47	68	9.03	26	1.08	<10	2.85	3459	4	3.03	23	880
127514	60	56	8.27	22	1.08	<10	3.07	2572	1	3.22	26	856
127515	37	235	8.34	24	0.98	<10	2.79	2971	<1	3.45	19	1006
127516	24	854	9.98	21	1.58	10	2.85	3544	145	1.74	20	818
127517	26	462	9.11	23	2.83	16	2.25	3107	7	2.49	25	961
127518	45	416	9.89	29	1.24	11	3.08	3203	3	3.33	35	963
127519	41	254	8.47	23	3.13	<10	3.24	3145	3	2.44	24	923
127520	34	120	7.63	25	2.25	19	2.72	2569	10	3.03	19	1030
127521	42	1139	9.66	24	2.91	<10	2.83	3652	11	2.42	24	963
127522	36	3862	12.24	25	3.50	<10	2.26	3063	71	1.65	44	1025

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An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127523	49	6621	12.15	25	2.52	<10	2.73	3076	26	1.28	38	707
127524	55	476	9.64	25	1.09	<10	2.02	2737	8	3.65	29	248
127525	73	797	6.96	25	1.58	<10	1.82	1225	13	3.29	21	554
127526	94	938	8.20	23	1.81	<10	2.51	1214	14	2.93	22	702
127527	44	971	9.54	25	0.86	13	2.37	804	16	3.40	22	868
127528	24	875	7.27	27	0.59	<10	2.34	924	3	3.59	17	1031
127529	26	351	6.93	24	0.41	<10	2.50	713	1	3.96	9	1217
127530	29	292	6.74	23	0.33	<10	2.50	729	3	4.08	8	1223
127531	29	144	6.47	22	0.43	<10	2.25	946	2	3.76	9	1130
127532	44	357	7.00	19	0.64	<10	2.19	1300	3	3.32	15	1042
127533	23	1584	7.15	23	0.72	<10	2.18	1388	55	4.05	15	1151
127534	24	235	7.79	26	0.89	<10	2.25	1134	2	4.16	8	1108
127535	21	660	8.16	23	0.77	<10	2.23	1275	6	3.53	13	1048
127536	22	139	7.72	24	0.55	<10	2.14	967	<1	4.38	11	1118
127537	40	1398	9.50	25	0.39	<10	2.41	931	<1	3.98	17	1109
127538*	127	257	7.31	25	0.61	<10	3.48	1039	<1	3.24	38	1019
127539	112	244	6.74	23	0.71	<10	2.99	784	<1	3.20	38	1131
127540	35	9372	6.47	18	1.59	10	1.21	1935	331	1.28	25	707
127541	97	233	6.91	23	0.69	<10	2.88	670	1	3.53	33	1254
127542	164	466	8.92	23	1.20	<10	4.13	1196	2	2.43	40	1008
127543	166	212	8.48	24	0.60	<10	4.24	1126	<1	3.08	55	904
127544	29	1413	8.29	22	0.57	<10	2.26	750	18	3.87	14	1007
127545	60	78	7.33	23	0.60	<10	2.55	874	3	3.67	17	1038
127546	119	138	7.56	22	0.49	<10	3.17	1009	<1	3.28	38	791
127547	149	130	7.04	21	0.64	<10	3.48	1027	<1	2.75	48	807

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127548	97	173	6.87	21	0.79	<10	2.95	971	<1	3.44	33	1012
127549	37	7323	8.72	23	0.31	13	2.53	915	18	3.26	24	1158
127550	33	1657	6.00	26	0.36	<10	2.43	565	11	4.10	19	1369
127551	24	1372	4.90	22	0.40	<10	2.07	523	2	3.82	18	1388
DUP 127501	37	2868	8.81	24	1.66	<10	2.31	4198	<1	2.14	24	942
DUP 127549	35	7324	8.73	26	0.32	13	2.52	915	17	3.27	24	1196
DUP 127518												
DUP 127542												
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK												
STD OREAS 601	41	1018	2.44	22	1.98	21	0.39	473	3	1.47	24	474
STD OREAS 24b	111	38	4.44	22	2.84	30	1.64	423	3	0.85	61	713
STD OxA131												
STD CDN-GS-P4C												

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CERTIFICATE OF ANALYSIS: YVR1610280

Project Name: Hat
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Report Version: Final

Table with 13 columns (Sample ID, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, V, W, Zn, Zr) and 25 rows of analytical data.

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Project Name: Hat  
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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127523	9	3.51	6	27	260	<8	0.42	<10	234	<10	202	31
127524	37	1.62	8	25	360	<8	0.51	<10	169	<10	147	31
127525	11	1.03	<5	32	438	<8	0.63	<10	229	12	67	35
127526	9	1.48	9	32	465	<8	0.52	<10	209	10	90	34
127527	11	1.85	<5	29	447	<8	0.44	<10	250	19	44	31
127528	9	0.94	<5	28	484	<8	0.43	<10	243	<10	97	37
127529	10	0.10	<5	26	404	<8	0.44	<10	292	10	61	43
127530	8	0.10	<5	25	399	<8	0.42	<10	286	<10	59	43
127531	6	0.09	6	22	372	<8	0.43	<10	260	<10	36	38
127532	22	0.28	8	26	412	<8	0.43	<10	243	<10	74	34
127533	7	0.55	5	23	333	<8	0.40	<10	209	<10	52	37
127534	7	0.12	<5	26	491	<8	0.44	<10	232	<10	37	41
127535	2	0.59	10	25	455	<8	0.41	<10	225	11	37	41
127536	7	0.23	<5	26	384	<8	0.43	<10	228	<10	35	41
127537	6	0.63	6	24	339	<8	0.43	<10	249	<10	38	42
127538*	4	0.37	<5	30	376	<8	0.47	<10	253	11	50	33
127539	6	0.13	6	27	465	<8	0.47	<10	246	<10	43	27
127540	110	1.66	24	9	384	<8	0.17	<10	77	21	1428	29
127541	5	0.20	<5	29	429	<8	0.46	<10	254	11	39	30
127542	9	0.32	<5	33	467	<8	0.44	<10	260	12	88	30
127543	13	0.19	<5	33	373	<8	0.45	<10	249	<10	67	30
127544	5	0.86	<5	26	462	<8	0.43	<10	243	<10	40	35
127545	6	0.12	<5	27	438	<8	0.42	<10	238	<10	39	35
127546	<2	0.16	<5	33	361	<8	0.41	<10	242	<10	48	32
127547	7	0.22	<5	34	350	<8	0.46	<10	252	<10	51	29

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610280</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 24-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127548	10	0.09	7	26	419	<8	0.44	<10	235	<10	45	30
127549	13	1.72	<5	18	366	<8	0.41	<10	206	10	156	30
127550	8	0.81	<5	20	472	<8	0.46	<10	222	<10	45	33
127551	3	1.01	<5	15	567	<8	0.41	<10	178	<10	33	26
DUP 127501	16	0.42	<5	28	255	<8	0.44	<10	297	<10	188	35
DUP 127549	12	1.72	<5	18	367	<8	0.41	<10	204	10	157	30
DUP 127518												
DUP 127542												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD OREAS 601	336	1.04	31	5	233	9	0.19	<10	27	12	1329	157
STD OREAS 24b	28	0.19	<5	16	127	15	0.46	<10	108	<10	110	133
STD OxA131												
STD CDN-GS-P4C												

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**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1610281**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 23-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610281</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127626	Core	6.48		0.030	<0.5	12.11	<5	414	0.6	<2	4.92	<0.5	29
127634	Core	6.45		0.050	0.6	7.36	<5	262	0.5	4	5.19	<0.5	43
127640	Core	3.97		0.062	<0.5	12.97	<5	581	0.7	<2	4.98	<0.5	26
127645	Core	7.20		0.010	<0.5	7.47	<5	296	0.6	<2	5.18	<0.5	36
127651	Core	2.14		0.023	<0.5	10.51	<5	1052	0.8	<2	1.91	<0.5	24
127657	Core	7.87		0.008	<0.5	5.94	<5	284	0.5	6	6.52	<0.5	46
127663	Core	4.64		0.016	<0.5	12.08	<5	564	0.6	<2	5.41	0.5	30
127670	Core	7.33		0.010	<0.5	9.49	<5	517	0.7	4	5.53	0.7	30
127674	Core	6.11		0.009	<0.5	8.72	6	264	0.7	<2	4.96	<0.5	23
127681*	Core	3.85		<0.005	<0.5	12.36	<5	393	0.6	<2	5.36	0.5	23
127687	Core	3.59		<0.005	<0.5	8.09	<5	356	<0.5	<2	5.98	<0.5	35
127692	Core	7.17		<0.005	<0.5	8.63	18	442	0.6	<2	4.92	<0.5	38
127699	Core	8.21		<0.005	<0.5	8.63	<5	511	0.7	<2	5.45	<0.5	25
127704	Core	6.04		0.010	<0.5	8.43	<5	573	0.9	<2	5.51	0.5	28
127710	Core	4.38		<0.005	<0.5	11.88	<5	759	0.8	2	3.97	<0.5	15
127713	Core	6.29		0.008	0.9	6.45	9	510	0.8	<2	6.75	<0.5	38
127714	Core	6.69		0.016	<0.5	7.04	<5	253	0.6	<2	4.99	<0.5	38
127715	Core	6.99		<0.005	<0.5	10.11	<5	355	0.6	<2	6.02	<0.5	29
127716	Core	7.95		0.005	<0.5	8.18	<5	240	0.5	<2	5.98	<0.5	38
127717	Core	8.11		<0.005	<0.5	9.07	<5	370	0.6	<2	5.89	<0.5	27

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610281</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 23-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127718	Core	4.19		0.006	<0.5	9.33	6	474	0.6	<2	5.37	<0.5	30
127719	Core	3.19		0.016	1.1	7.74	8	264	0.6	4	8.63	<0.5	32
127720	Pulp	0.09		0.537	12.4	5.60	1180	744	0.7	11	5.16	<0.5	47
127721	Core	6.38		0.006	<0.5	6.96	<5	236	0.6	4	5.56	<0.5	38
127722	Core	6.22		<0.005	<0.5	11.85	11	820	0.6	9	4.11	<0.5	31
127723	Core	6.71		<0.005	<0.5	8.26	<5	530	0.8	2	4.33	<0.5	41
127724	Core	7.30		<0.005	<0.5	6.23	<5	208	<0.5	<2	6.41	<0.5	48
127725	Core	7.03		0.007	<0.5	5.91	<5	303	<0.5	<2	6.05	<0.5	44
DUP 127723				<0.005									
DUP 127724					<0.5	6.19	<5	205	<0.5	<2	6.36	<0.5	46
STD BLANK				<0.005									
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD OxA131				0.071									
STD OREAS 24b					<0.5	7.83	7	731	2.7	<2	1.04	<0.5	15

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127626	39	941	7.75	22	2.35	<10	2.82	960	3	2.43	30	1164
127634	218	594	9.28	23	2.26	<10	5.70	1252	<1	1.45	145	1055
127640	18	269	6.34	20	2.58	12	2.84	828	<1	2.57	27	1207
127645	169	333	10.27	24	2.19	<10	4.84	1068	1	1.08	89	1014
127651	43	163	9.69	26	2.37	14	2.38	646	<1	2.77	27	2731
127657	332	28	10.29	22	1.37	<10	6.93	1482	1	0.77	185	985
127663	27	581	8.51	27	2.42	<10	3.10	890	<1	1.68	25	1040
127670	37	94	8.82	26	2.11	<10	2.80	1100	<1	1.92	18	990
127674	80	112	6.33	19	1.25	<10	2.59	951	<1	3.42	28	1339
127681*	26	146	7.13	24	2.19	<10	2.69	660	<1	2.11	7	1136
127687	143	150	8.78	23	1.49	<10	4.80	1120	<1	1.94	68	731
127692	40	222	7.80	22	1.59	<10	2.75	1215	1	2.50	34	1143
127699	31	191	7.39	23	2.14	<10	2.40	1007	1	2.41	18	1108
127704	61	171	6.44	21	1.45	<10	2.39	1015	<1	3.34	29	1837
127710	25	102	6.07	24	2.51	<10	1.97	679	1	3.24	8	1347
127713	20	301	7.68	18	1.85	<10	2.50	1132	<1	1.87	18	1591
127714	318	51	9.71	25	1.94	<10	5.02	1274	1	1.24	137	971
127715	37	156	7.34	22	2.07	<10	2.82	962	<1	2.12	20	1106
127716	134	401	8.59	23	1.54	<10	4.25	1269	<1	1.87	77	980
127717	39	50	7.72	26	1.85	<10	2.82	1298	<1	2.14	23	1087

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610281</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 23-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127718	41	382	7.63	21	2.40	<10	3.16	1258	<1	1.97	26	1144
127719	96	1297	9.31	28	1.28	<10	3.25	1667	<1	1.34	57	1118
127720	31	3830	4.41	15	2.12	<10	0.66	1303	187	1.51	22	606
127721	219	355	9.56	22	1.54	<10	5.23	1469	<1	2.03	101	1242
127722	100	186	8.49	21	2.44	<10	4.29	1897	<1	2.36	52	1194
127723	131	145	9.40	25	1.97	<10	3.90	1656	<1	2.46	63	1530
127724	300	66	8.71	21	1.31	<10	7.22	1459	<1	1.38	197	1007
127725	360	11	8.64	22	1.80	<10	7.88	1299	<1	0.98	229	916
DUP 127723												
DUP 127724	287	66	8.62	23	1.30	<10	7.14	1438	<1	1.37	197	977
STD BLANK												
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD OxA131												
STD OREAS 24b	118	37	4.44	23	2.85	30	1.66	436	4	0.84	59	701

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610281</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 23-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127626	11	0.16	<5	28	579	<8	0.47	<10	242	<10	54	36
127634	14	0.15	<5	30	229	<8	0.41	<10	249	<10	60	33
127640	16	0.05	<5	24	625	<8	0.43	<10	227	11	55	32
127645	9	0.06	<5	31	219	<8	0.41	<10	274	<10	51	30
127651	14	0.06	<5	32	171	<8	0.59	<10	313	<10	36	66
127657	5	0.01	<5	38	148	<8	0.36	<10	236	<10	65	33
127663	16	0.14	<5	36	348	<8	0.48	<10	280	<10	133	32
127670	10	0.13	<5	29	345	<8	0.46	<10	283	<10	92	33
127674	5	0.07	<5	20	319	<8	0.36	<10	190	<10	46	41
127681*	9	0.12	<5	36	469	<8	0.42	<10	240	<10	31	75
127687	10	0.24	<5	42	296	<8	0.56	<10	332	<10	53	24
127692	6	0.20	<5	25	361	<8	0.48	<10	304	<10	47	34
127699	13	0.20	<5	24	310	<8	0.42	<10	272	<10	42	39
127704	10	0.19	<5	21	348	<8	0.46	<10	234	<10	60	56
127710	11	0.44	<5	33	249	<8	0.38	<10	241	<10	33	58
127713	47	0.49	<5	15	178	<8	0.32	<10	150	<10	84	53
127714	12	0.02	<5	30	218	<8	0.35	<10	231	<10	51	31
127715	13	0.03	<5	33	439	<8	0.45	<10	268	10	39	39
127716	10	0.07	<5	28	365	<8	0.41	<10	260	<10	49	35
127717	13	0.05	<5	23	336	<8	0.47	<10	268	<10	46	31

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1610281</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 23-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127718	8	0.08	<5	26	392	<8	0.47	11	282	<10	38	36
127719	9	0.23	<5	22	191	<8	0.39	<10	230	<10	165	35
127720	19	0.69	30	4	382	<8	0.12	<10	48	14	119	20
127721	9	0.09	<5	34	250	<8	0.43	<10	272	<10	95	38
127722	13	0.13	<5	41	339	<8	0.45	10	243	<10	110	40
127723	8	0.17	<5	29	242	<8	0.42	<10	272	<10	64	46
127724	9	0.05	<5	39	176	<8	0.40	<10	258	<10	57	37
127725	5	<0.01	<5	40	180	<8	0.39	<10	249	<10	53	36
DUP 127723												
DUP 127724	9	0.05	<5	38	174	<8	0.40	<10	253	<10	56	37
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD OxA131												
STD OREAS 24b	28	0.19	<5	16	125	16	0.46	<10	109	<10	107	134

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**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710128**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

**SAMPLE PREPARATION**

METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

**ANALYTICAL METHODS**

METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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 Langley, BC V1M 4B4  
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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710128</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127376	Core	9.06		0.092	<0.5	7.62	<5	98	0.7	5	6.66	<0.5	53
127377	Core	8.31		0.038	<0.5	7.08	<5	127	0.5	3	6.29	<0.5	46
127378	Core	8.66		0.032	<0.5	7.34	<5	128	0.6	<2	7.28	<0.5	32
127379	Core	2.90		<0.005	<0.5	8.07	<5	170	0.6	<2	6.05	<0.5	27
127380	Core	4.96		0.009	<0.5	8.84	<5	154	0.7	3	4.90	<0.5	20
127381	Core	5.40		0.082	<0.5	7.81	<5	123	0.7	<2	6.37	<0.5	26
127382	Core	7.16		0.030	<0.5	8.67	<5	173	0.7	3	5.80	<0.5	27
127383	Core	8.12		0.027	<0.5	7.61	<5	119	0.7	<2	6.21	<0.5	27
127384	Core	8.66		0.025	<0.5	6.84	<5	92	0.8	5	6.47	<0.5	40
127385	Core	5.51		<0.005	<0.5	6.05	<5	92	0.5	4	8.48	<0.5	27
127386	Core	4.25		0.060	<0.5	5.35	<5	72	0.6	5	8.90	<0.5	55
127387*	Core	4.48		0.362	0.7	5.16	<5	95	<0.5	4	10.99	<0.5	55
127388	Core	7.74		0.022	<0.5	6.94	<5	92	0.6	<2	7.64	<0.5	46
127389	Core	4.09		0.034	<0.5	6.58	<5	114	0.6	<2	7.14	<0.5	41
127390	Rock	0.68		<0.005	<0.5	7.27	<5	931	1.0	<2	1.68	<0.5	4
127391	Core	6.87		0.017	<0.5	7.73	<5	120	0.6	3	7.10	<0.5	48
127392*	Core	3.79		0.006	<0.5	5.80	<5	14	0.7	<2	9.23	0.6	56
127393	Core	9.19		0.068	<0.5	7.75	<5	126	0.5	2	8.18	<0.5	48
127394	Core	8.23		0.161	<0.5	5.98	<5	81	<0.5	13	9.00	<0.5	67
127395	Core	8.32		0.044	<0.5	7.15	<5	97	<0.5	<2	9.05	<0.5	46
127396	Core	8.64		0.026	<0.5	8.55	<5	97	<0.5	3	8.94	<0.5	35
127397	Core	5.53		0.015	<0.5	8.99	<5	128	<0.5	<2	8.68	<0.5	28
127398	Core	6.06		0.031	<0.5	8.22	<5	117	<0.5	3	8.23	0.7	37
127399*	Core	8.21		0.056	0.8	8.28	<5	113	<0.5	2	8.33	<0.5	43
127400	Core	8.05		0.071	<0.5	8.27	<5	131	<0.5	3	8.82	<0.5	35

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710128</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
		0.01	LOR	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1
127401	Core	5.13		0.068	<0.5	8.17	<5	103	<0.5	<2	9.18	<0.5	43
127402	Core	8.05		0.032	<0.5	8.19	<5	168	<0.5	2	8.13	<0.5	42
127403	Core	6.84		0.054	<0.5	8.01	<5	169	0.5	<2	7.50	<0.5	38
127404	Core	7.75		0.012	<0.5	8.54	<5	195	0.5	<2	7.75	<0.5	29
127405	Core	8.12		0.012	<0.5	8.33	<5	171	<0.5	3	7.32	<0.5	29
127406	Core	4.95		0.006	<0.5	7.48	<5	122	0.5	4	8.18	<0.5	29
127407	Core	6.33		0.006	<0.5	7.44	<5	168	<0.5	<2	8.16	<0.5	34
127408	Core	6.15		<0.005	<0.5	9.92	<5	109	0.7	<2	4.66	<0.5	14
127409	Core	4.19		0.014	1.3	10.86	<5	333	0.7	<2	4.47	<0.5	15
127410	Core	2.54		<0.005	<0.5	11.50	<5	292	0.7	<2	4.60	<0.5	15
127411	Core	3.79		<0.005	<0.5	10.20	<5	160	0.7	<2	4.48	<0.5	16
127412	Core	3.69		0.074	<0.5	6.54	<5	117	<0.5	<2	8.32	<0.5	31
127413	Core	7.87		0.032	<0.5	8.03	<5	97	0.6	4	8.45	<0.5	23
127414	Core	7.92		0.046	<0.5	7.82	<5	62	0.6	<2	7.75	<0.5	29
127415	Core	9.21		0.010	<0.5	7.59	<5	47	0.6	2	7.60	<0.5	34
127416	Core	8.25		0.023	<0.5	8.05	<5	41	0.6	<2	6.45	<0.5	21
127417	Core	8.06		0.053	<0.5	1.63	<5	<10	<0.5	3	12.82	<0.5	37
127418	Core	9.12		0.035	0.8	1.94	<5	<10	0.6	8	6.57	<0.5	44
127419	Core	8.20		0.010	<0.5	9.04	<5	153	0.7	3	8.76	<0.5	9
127420	Pulp	0.09		0.503	3.3	6.24	548	690	0.8	14	5.68	<0.5	25
127421	Core	8.20		<0.005	<0.5	9.20	<5	109	0.6	<2	8.67	<0.5	12
127422	Core	7.62		0.017	<0.5	8.26	<5	83	0.6	2	8.83	<0.5	16
127423	Core	7.28		<0.005	<0.5	8.78	<5	90	0.6	<2	9.90	<0.5	9
127424	Core	7.73		<0.005	<0.5	9.08	<5	113	0.6	3	9.33	<0.5	8
127425	Core	5.24		<0.005	<0.5	8.67	<5	79	0.6	<2	10.35	<0.5	8

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An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710128</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm	ICP-230 Co ppm
127426	Core	6.91	LOR	0.006	<0.5	8.10	<5	102	0.6	<2	8.73	<0.5	15
DUP 127392				0.006									
DUP 127423				<0.005									
DUP 127425				<0.005									
DUP 127397					<0.5	8.84	<5	128	<0.5	<2	8.72	<0.5	29
DUP 127411					<0.5	10.09	<5	159	0.7	<2	4.43	<0.5	15
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD BLANK					<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1
STD OxA131				0.072									
STD CDN-GS-P4C				0.382									
STD CDN-GS-P4C				0.369									
STD OREAS 24b					<0.5	7.86	8	729	2.6	3	1.05	<0.5	15
STD GBM908-10					2.9	7.36	57	1104	1.5	<2	3.83	2.1	24

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Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710128

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 13 columns: Sample ID, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127376 through 127400.

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V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710128

Project Name: Hat
Job Received Date: 23-Dec-2016
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Table with 13 columns: Sample ID, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127401 through 127425.

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710128</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
127426	35	66	8.58	29	0.33	<10	3.36	492	<1	2.82	27	1128
DUP 127392												
DUP 127423												
DUP 127425												
DUP 127397	99	198	8.72	25	0.53	<10	4.56	813	<1	1.85	47	1840
DUP 127411	25	12	5.62	22	0.50	<10	1.89	1032	<1	4.96	8	1367
STD BLANK												
STD BLANK												
STD BLANK												
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD OxA131												
STD CDN-GS-P4C												
STD CDN-GS-P4C												
STD OREAS 24b	111	38	4.44	22	2.84	30	1.64	423	3	0.85	61	713
STD GBM908-10	133	3680	5.80	25	2.30	37	1.93	780	59	2.31	2203	1037

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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127376	11	0.43	<5	39	431	<8	0.47	<10	374	<10	50	27
127377	9	0.33	<5	36	395	<8	0.44	<10	334	10	50	25
127378	9	0.14	<5	41	337	<8	0.46	<10	471	11	43	27
127379	6	0.05	<5	40	445	<8	0.50	<10	450	<10	43	28
127380	7	0.09	<5	20	521	<8	0.40	<10	381	<10	35	22
127381	14	0.24	10	16	421	<8	0.33	<10	578	<10	39	22
127382	7	0.19	10	22	483	<8	0.45	<10	464	<10	40	27
127383	12	0.16	9	18	440	<8	0.38	<10	542	<10	47	21
127384	12	0.23	6	17	392	<8	0.38	12	707	<10	59	21
127385	8	0.10	7	23	352	<8	0.33	<10	417	<10	52	20
127386	10	0.40	<5	25	248	<8	0.27	<10	719	<10	74	17
127387*	8	0.93	<5	20	358	<8	0.25	<10	423	<10	46	16
127388	9	0.42	6	24	453	<8	0.40	<10	458	<10	56	20
127389	9	0.33	8	30	381	<8	0.47	<10	736	<10	56	21
127390	9	0.02	<5	7	218	<8	0.21	<10	37	<10	41	61
127391	16	0.31	<5	39	532	<8	0.57	<10	565	<10	72	25
127392*	28	0.23	7	24	903	<8	0.35	<10	787	11	99	21
127393	10	0.31	8	39	441	<8	0.46	<10	460	<10	74	21
127394	6	0.48	10	57	330	<8	0.49	<10	502	<10	123	23
127395	8	0.19	8	52	415	<8	0.52	<10	440	13	59	21
127396	5	0.13	9	40	476	<8	0.47	<10	409	<10	54	16
127397	6	0.06	9	36	523	<8	0.47	<10	409	<10	44	14
127398	9	0.10	<5	40	455	<8	0.50	<10	378	<10	61	16
127399*	11	0.37	<5	32	463	<8	0.48	<10	410	<10	66	15
127400	7	0.18	6	41	467	<8	0.58	<10	377	<10	59	18

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710128</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127401	6	0.44	5	38	590	<8	0.55	<10	345	<10	69	17
127402	11	0.34	10	35	680	<8	0.59	<10	379	<10	71	21
127403	13	0.28	8	36	620	<8	0.49	<10	331	<10	68	24
127404	7	0.09	<5	31	782	<8	0.50	<10	361	<10	49	22
127405	13	0.14	8	33	601	<8	0.46	<10	312	<10	52	16
127406	10	0.09	<5	41	474	<8	0.49	<10	348	<10	54	19
127407	9	0.15	7	43	484	<8	0.48	<10	304	13	47	19
127408	7	0.02	<5	12	724	<8	0.42	<10	133	<10	106	44
127409	7	0.02	<5	14	621	<8	0.46	<10	140	<10	103	45
127410	9	0.02	6	15	653	<8	0.45	<10	133	<10	106	48
127411	7	0.02	<5	12	700	<8	0.43	<10	129	<10	116	44
127412	3	0.41	7	28	553	<8	0.36	<10	287	<10	70	23
127413	10	0.15	7	30	646	<8	0.41	<10	332	<10	57	18
127414	8	0.34	<5	28	625	<8	0.40	<10	350	<10	68	22
127415	8	0.22	<5	32	552	<8	0.37	<10	345	11	62	19
127416	5	0.09	<5	16	693	<8	0.37	<10	298	<10	52	31
127417	5	0.16	<5	27	92	<8	0.15	<10	731	<10	32	12
127418	19	0.13	6	14	74	<8	0.16	<10	1274	<10	50	15
127419	10	0.01	9	21	622	<8	0.46	<10	312	<10	22	21
127420	18	0.55	11	9	449	<8	0.20	<10	85	12	85	26
127421	7	0.01	<5	23	648	<8	0.48	<10	306	11	24	25
127422	10	0.02	<5	25	549	<8	0.45	<10	428	<10	31	25
127423	<2	0.01	8	23	581	<8	0.47	<10	323	<10	19	23
127424	2	<0.01	<5	23	697	<8	0.51	<10	243	<10	17	24
127425	<2	<0.01	8	26	523	<8	0.47	<10	270	<10	20	27

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710128**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Sample ID	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127426	6	0.02	<5	24	534	<8	0.44	<10	447	<10	27	28
DUP 127392												
DUP 127423												
DUP 127425												
DUP 127397	5	0.06	<5	35	521	<8	0.47	<10	411	<10	44	14
DUP 127411	8	0.02	<5	12	696	<8	0.43	<10	128	<10	115	44
STD BLANK												
STD BLANK												
STD BLANK												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD OxA131												
STD CDN-GS-P4C												
STD CDN-GS-P4C												
STD OREAS 24b	28	0.19	<5	16	127	15	0.46	<10	108	<10	110	133
STD GBM908-10	2037	0.38	<5	19	300	14	0.68	<10	142	15	1069	143

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**CERTIFICATE OF ANALYSIS: YVR1710129**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

**SAMPLE PREPARATION**

METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

**ANALYTICAL METHODS**

METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127552	Core	5.21		0.112		0.6	8.32	<5	201	0.7	<2	5.33	<0.5
127553	Core	9.99		0.046		0.6	8.56	<5	230	0.6	<2	5.78	<0.5
127554	Core	4.69		0.071		0.7	7.50	<5	237	0.5	2	5.77	<0.5
127555	Core	4.88		0.062		<0.5	8.85	<5	217	0.6	<2	5.02	<0.5
127556	Core	4.44		0.042		0.9	6.53	<5	113	0.5	<2	8.05	<0.5
127557	Core	4.72		0.012		0.6	6.89	<5	874	0.7	4	5.63	<0.5
127558	Core	10.98		0.123		1.6	8.27	<5	1737	0.9	<2	4.78	<0.5
127559	Core	6.29		0.303	11095	3.9	7.62	<5	1795	0.9	<2	6.54	1.1
127560	Core	6.89		0.026		0.5	8.70	<5	232	<0.5	<2	7.05	<0.5
127561	Core	4.89		0.036		0.7	7.24	<5	139	0.6	3	7.00	<0.5
127562	Core	7.79		0.136		0.6	7.79	<5	221	0.5	<2	6.29	<0.5
127563	Core	7.30		0.102		0.7	8.64	<5	272	<0.5	<2	6.01	<0.5
127564	Core	7.86		0.136		0.5	7.92	<5	222	<0.5	5	6.44	<0.5
127565	Core	6.54		0.089		<0.5	8.48	<5	254	<0.5	2	6.45	<0.5
127566	Core	4.20		0.365		0.6	8.69	<5	162	0.7	4	5.75	<0.5
127567	Core	6.74		0.175		<0.5	8.96	<5	92	0.7	<2	4.54	<0.5
127568	Core	8.15		0.588		0.7	7.82	<5	185	0.5	4	8.11	<0.5
127569	Core	8.11		0.029		<0.5	8.30	<5	264	<0.5	<2	6.86	<0.5
127570	Pulp	0.09		0.887		12.7	5.53	1104	620	0.7	27	7.45	9.4
127571	Core	7.63		0.046		<0.5	8.97	<5	289	<0.5	3	6.51	<0.5
127572	Core	3.26		0.274		0.9	8.51	<5	253	0.5	5	5.86	<0.5
127573	Core	7.94		0.433		0.7	8.07	<5	868	0.7	<2	5.14	<0.5
127574	Core	8.05		0.328		0.7	6.94	<5	398	0.7	2	5.44	<0.5
127575	Core	7.20		0.196		0.6	7.50	<5	312	<0.5	9	7.19	<0.5
127576	Core	6.71		0.631		1.4	6.44	<5	198	0.7	2	6.02	<0.5

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Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710129

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, Sample Type, PWE-100 Rec. Wt. kg, Method Analyte Units, FAS-121 Au ppm, ICF-6Cu Cu ppm, ICP-230 Ag ppm, ICP-230 Al %, ICP-230 As ppm, ICP-230 Ba ppm, ICP-230 Be ppm, ICP-230 Bi ppm, ICP-230 Ca %, ICP-230 Cd ppm. Rows include sample IDs 127577 through 127596.

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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127597	Core	7.04		0.023		0.5	7.40	<5	156	<0.5	4	8.46	<0.5
127598	Core	7.55		0.008		<0.5	7.44	<5	158	<0.5	<2	8.29	<0.5
127599	Core	7.76		0.008		<0.5	7.50	<5	136	0.5	6	7.79	<0.5
127600	Pulp	0.09		1.475		32.5	7.05	25	851	1.0	3	1.76	<0.5
127601	Core	7.29		0.011		<0.5	7.47	<5	149	<0.5	<2	8.27	<0.5
127602	Core	7.75		0.005		<0.5	8.68	<5	179	0.5	<2	7.73	<0.5
127603	Core	5.55		<0.005		<0.5	7.44	<5	166	<0.5	3	8.40	<0.5
127604	Core	0.90		<0.005		<0.5	8.32	<5	211	<0.5	<2	7.49	<0.5
127605	Core	8.34		<0.005		<0.5	6.05	<5	152	0.7	4	11.82	<0.5
127606	Core	4.80		<0.005		<0.5	10.36	<5	169	0.7	<2	6.78	<0.5
127607	Core	6.65		<0.005		<0.5	7.75	<5	131	0.6	2	7.77	0.6
127608	Core	7.53		<0.005		<0.5	7.51	<5	89	0.6	5	7.09	<0.5
127609	Core	3.58		<0.005		<0.5	4.81	<5	52	0.5	6	7.93	<0.5
127610	Core	7.78		<0.005		<0.5	6.50	<5	119	0.5	7	7.72	0.5
127611	Core	8.59		<0.005		0.6	6.38	<5	67	0.6	5	5.34	<0.5
127612	Core	8.31		<0.005		<0.5	7.50	<5	88	0.6	4	6.10	<0.5
127613	Core	8.51		<0.005		<0.5	6.55	<5	91	0.6	2	7.25	<0.5
127614	Core	8.44		<0.005		<0.5	7.81	<5	113	0.5	5	7.06	<0.5
127615	Core	5.10		<0.005		0.5	6.70	<5	121	0.5	3	9.67	<0.5
127616	Core	7.31		0.037		<0.5	8.17	<5	57	0.5	<2	6.92	<0.5

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710129</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
127617	Core	3.27	LOR	<0.005	10	<0.5	8.37	<5	113	<0.5	<2	9.97	<0.5
127618	Core	7.77		<0.005		<0.5	7.99	<5	111	<0.5	4	8.45	<0.5
127619	Core	7.93		<0.005		<0.5	8.26	<5	112	<0.5	<2	8.28	<0.5
127620	Core	4.50		<0.005		<0.5	7.75	<5	92	<0.5	4	7.77	<0.5
DUP 127574						0.7	6.98	<5	397	0.7	<2	5.49	<0.5
DUP 127606						<0.5	10.58	<5	170	0.7	3	6.80	<0.5
DUP 127559					11173								
DUP 127578				0.157									
DUP 127596				0.023									
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK					<10								
STD BLANK				<0.005									
STD BLANK				<0.005									
STD OREAS 24b						<0.5	7.76	9	705	2.7	2	1.02	<0.5
STD GBM908-10						2.9	7.52	58	1084	1.5	<2	3.75	1.7
STD OREAS 504					11283								
STD OxA131				0.073									
STD CDN-GS-2M				2.247									

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CERTIFICATE OF ANALYSIS: YVR1710129

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, ICP-230 Co ppm, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127552 through 127576.

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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127577	50	68	1409	9.41	28	0.82	<10	4.12	757	<1	2.13	60	447
127578	39	60	1664	9.92	27	0.79	<10	3.80	823	<1	2.34	48	786
127579	56	62	1235	8.51	24	0.74	<10	3.85	757	<1	2.00	64	355
127580	58	40	1462	14.09	34	0.74	<10	3.05	613	<1	2.14	75	787
127581	40	39	1845	11.31	30	0.67	<10	3.32	665	<1	2.90	46	1377
127582	63	42	1806	12.82	31	0.74	<10	3.54	795	<1	2.58	72	1593
127583	60	76	1952	13.20	28	0.62	<10	3.98	928	<1	2.38	64	706
127584	36	58	1423	9.32	27	1.22	<10	3.51	615	<1	2.55	51	617
127585	35	55	522	8.92	27	0.74	<10	3.56	571	<1	2.00	39	474
127586	58	175	194	10.47	29	0.60	<10	5.14	1213	<1	1.51	56	939
127587	52	67	1176	8.87	23	0.58	<10	4.11	841	<1	2.25	64	877
127588	39	115	1138	8.93	26	0.56	<10	4.69	865	<1	2.65	49	1055
127589	124	63	4280	21.51	39	0.17	<10	3.40	781	<1	1.97	57	1214
127590	332	98	3522	24.83	46	0.07	<10	3.07	1089	7	0.71	62	1119
127591	62	69	1779	9.28	25	0.58	<10	4.26	806	<1	2.76	86	867
127592	45	112	892	8.89	23	0.49	<10	4.70	940	<1	2.43	66	542
127593	39	97	882	9.14	26	0.46	<10	4.33	842	<1	2.46	47	839
127594	30	84	479	7.45	25	0.38	<10	3.58	774	<1	2.93	56	914
127595	22	93	97	6.21	24	0.33	<10	3.64	685	<1	3.32	46	1089
127596	45	116	418	8.07	23	0.29	<10	4.52	808	<1	2.77	66	732

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Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710129

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, ICP-230 Co ppm, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127597 through 127616.

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710129</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127617	16	54	57	6.47	23	0.42	<10	3.38	620	<1	2.29	23	1420
127618	27	96	20	9.99	29	0.48	<10	4.87	848	<1	1.88	40	1275
127619	27	87	16	8.70	30	0.50	<10	4.43	864	<1	2.09	32	1064
127620	28	109	43	10.92	32	0.43	<10	4.81	863	<1	2.11	40	1246
DUP 127574	86	56	3456	14.64	33	0.80	<10	3.52	1228	<1	1.97	72	837
DUP 127606	15	63	48	7.22	29	0.60	<10	2.71	408	<1	2.61	23	1029
DUP 127559													
DUP 127578													
DUP 127596													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD BLANK													
STD BLANK													
STD OREAS 24b	15	110	36	4.44	26	2.84	24	1.65	427	4	0.83	56	709
STD GBM908-10	24	131	3714	5.90	24	2.31	31	1.98	795	67	2.37	2074	1015
STD OREAS 504													
STD OxA131													
STD CDN-GS-2M													

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710129</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127552	11	0.51	<5	30	400	<8	0.53	<10	297	<10	54	31
127553	12	0.60	<5	30	447	<8	0.45	<10	240	<10	54	29
127554	10	0.43	<5	27	449	<8	0.42	<10	227	<10	48	24
127555	12	0.53	<5	27	412	<8	0.45	<10	244	<10	71	25
127556	12	0.54	9	29	347	<8	0.34	<10	215	<10	85	22
127557	9	0.47	<5	37	279	<8	0.47	12	295	<10	62	25
127558	17	1.02	<5	31	334	<8	0.43	<10	196	<10	90	25
127559	63	1.93	<5	27	292	<8	0.41	<10	169	<10	199	24
127560	11	0.18	9	32	439	<8	0.53	<10	315	<10	49	24
127561	10	0.44	5	21	265	<8	0.41	<10	218	<10	65	33
127562	12	0.63	<5	35	347	<8	0.43	<10	250	<10	46	24
127563	12	0.64	7	31	545	<8	0.45	<10	262	<10	38	23
127564	14	0.39	8	38	476	<8	0.46	<10	276	<10	44	26
127565	11	0.42	10	33	512	<8	0.45	<10	271	<10	41	26
127566	12	0.93	<5	26	543	<8	0.36	<10	235	<10	35	31
127567	16	0.90	<5	23	313	<8	0.39	<10	266	<10	35	45
127568	15	1.69	<5	39	684	<8	0.42	<10	284	<10	44	24
127569	11	0.41	<5	39	427	<8	0.50	<10	296	<10	47	24
127570	118	1.66	21	9	380	<8	0.17	<10	78	18	1325	30
127571	13	0.49	7	34	438	<8	0.53	<10	321	<10	47	24
127572	14	2.66	<5	31	517	<8	0.44	<10	277	<10	50	24
127573	15	1.87	<5	22	514	<8	0.39	<10	309	<10	48	24
127574	16	2.25	6	30	314	<8	0.41	<10	344	<10	59	21
127575	14	0.98	<5	31	389	<8	0.47	<10	356	<10	50	19
127576	14	2.47	9	32	275	<8	0.40	<10	515	<10	52	20

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710129**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127577	13	0.67	<5	41	391	<8	0.40	<10	345	<10	39	20
127578	10	0.48	<5	37	436	<8	0.47	<10	320	<10	39	23
127579	13	0.79	<5	40	339	<8	0.36	<10	275	<10	38	21
127580	10	0.87	5	28	333	<8	0.42	10	504	<10	39	22
127581	13	0.59	<5	32	420	<8	0.51	<10	369	<10	36	20
127582	12	0.74	5	36	488	<8	0.53	<10	515	<10	39	23
127583	12	0.78	6	37	358	<8	0.48	<10	494	<10	47	21
127584	19	0.50	11	40	572	<8	0.45	<10	363	16	33	22
127585	15	0.36	<5	35	249	<8	0.44	<10	366	11	32	20
127586	9	0.63	13	44	612	<8	0.43	<10	322	<10	44	19
127587	12	0.69	6	33	465	<8	0.43	<10	306	<10	34	20
127588	7	0.36	8	39	356	<8	0.43	<10	297	<10	36	20
127589	13	1.68	6	27	459	<8	0.36	<10	487	<10	39	25
127590	25	3.76	8	27	1064	<8	0.32	12	481	<10	40	20
127591	10	0.85	6	38	423	<8	0.45	<10	347	<10	39	20
127592	8	0.48	<5	44	445	<8	0.48	<10	337	<10	41	22
127593	13	0.43	<5	37	531	<8	0.45	<10	339	<10	36	22
127594	11	0.32	5	33	450	<8	0.43	<10	308	<10	34	22
127595	6	0.16	<5	29	461	<8	0.38	<10	281	<10	30	27
127596	14	0.62	<5	43	426	<8	0.48	15	319	<10	35	25

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MS Analytical
Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
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To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710129

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 13 columns: Sample ID, ICP-230 Pb ppm, ICP-230 S %, ICP-230 Sb ppm, ICP-230 Sc ppm, ICP-230 Sr ppm, ICP-230 Th ppm, ICP-230 Ti %, ICP-230 Tl ppm, ICP-230 V ppm, ICP-230 W ppm, ICP-230 Zn ppm, ICP-230 Zr ppm. Rows include sample IDs 127597 through 127616.

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710129</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Sample ID	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127617	9	0.02	<5	30	463	<8	0.48	<10	318	<10	24	22
127618	11	0.01	<5	41	421	<8	0.49	<10	449	<10	39	19
127619	11	0.01	8	37	436	<8	0.52	11	373	<10	42	17
127620	10	0.02	6	38	374	<8	0.47	<10	509	<10	43	19
DUP 127574	7	2.26	10	30	316	<8	0.41	12	345	<10	59	21
DUP 127606	13	0.02	<5	20	637	<8	0.37	<10	339	<10	22	20
DUP 127559												
DUP 127578												
DUP 127596												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD BLANK												
STD BLANK												
STD OREAS 24b	29	0.18	<5	15	128	17	0.47	<10	107	<10	106	135
STD GBM908-10	1965	0.38	<5	19	303	14	0.68	<10	145	<10	995	143
STD OREAS 504												
STD OxA131												
STD CDN-GS-2M												

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**MS Analytical**

An AZ Global Company

MS Analytical  
Unit 1, 20120 102nd Avenue  
Langley, BC V1M 4B4  
Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710130**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
Prep Blank	QC-P-BK	--		0.005		<0.5	0.46	<5	14	<0.5	<2	0.02	<0.5
Prep Blank	QC-P-BK	--		<0.005		<0.5	0.46	<5	14	<0.5	<2	0.02	<0.5
127427*	Core	6.71		0.023		<0.5	9.69	<5	622	0.6	<2	3.97	<0.5
127428	Core	5.31		0.068		1.1	8.63	13	261	0.7	<2	4.23	<0.5
127429*	Core	5.59		0.142		0.5	9.27	<5	259	0.7	<2	4.26	<0.5
127430	Core	7.20		0.057		<0.5	9.13	<5	248	0.6	4	5.25	<0.5
127431	Core	7.75		0.007		<0.5	8.53	<5	306	0.6	4	4.88	0.5
127432	Core	7.62		0.014		0.5	7.79	<5	353	0.6	<2	6.30	0.7
127433	Core	7.76		0.010		<0.5	8.98	<5	465	0.6	<2	5.42	<0.5
127434	Core	7.61		<0.005		<0.5	9.08	<5	639	0.7	<2	4.78	0.7
127435	Core	3.59		0.008		1.6	8.22	<5	305	0.7	<2	5.02	2.4
127436	Core	4.93		0.005		0.8	8.65	<5	438	0.7	<2	5.11	0.6
127437	Core	7.77		0.005		<0.5	9.08	<5	1232	1.0	<2	4.54	<0.5
127438	Core	8.32		<0.005		<0.5	9.00	<5	732	1.1	<2	5.47	<0.5
127439	Core	7.73		0.005		<0.5	9.26	<5	1062	1.0	<2	4.60	<0.5
127440	Core	7.33		<0.005		<0.5	9.01	<5	1266	1.0	<2	4.68	<0.5
127441	Core	4.75		<0.005		<0.5	10.72	<5	1283	1.0	<2	3.98	<0.5
127442	Core	4.75		0.045		<0.5	8.62	<5	906	0.9	<2	5.42	<0.5
127443	Core	6.45		0.007		<0.5	8.90	<5	500	0.7	<2	4.55	0.5
127444	Core	6.77		0.044		<0.5	8.99	<5	353	0.7	<2	4.92	<0.5
127445	Core	7.42		<0.005		1.0	8.48	46	340	0.6	<2	5.72	1.2
127446	Core	7.01		<0.005		<0.5	8.51	<5	489	0.7	<2	5.02	<0.5
127447	Core	7.10		0.025		<0.5	8.35	5	565	0.7	<2	5.37	<0.5
127448	Core	2.67		0.366		<0.5	8.56	<5	510	0.6	<2	5.52	<0.5
127449	Core	6.81		0.026		<0.5	10.53	<5	657	0.8	<2	3.81	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127450	Pulp	0.09		0.873		12.7	5.40	1130	627	0.7	30	7.42	8.7
127451	Core	6.35		0.025		<0.5	10.04	<5	375	0.7	<2	4.19	<0.5
127452	Core	7.94		0.022		<0.5	10.46	<5	254	0.8	<2	4.24	0.6
127453	Core	6.74		0.024		<0.5	9.79	<5	501	0.7	<2	4.08	<0.5
127454	Core	2.91		0.012		<0.5	12.09	<5	494	0.9	<2	4.51	<0.5
127455	Core	4.62		<0.005		<0.5	11.73	<5	494	0.8	<2	4.51	<0.5
127456	Core	8.53		0.005		0.8	7.50	<5	424	0.5	<2	5.77	2.7
127457	Core	7.81		<0.005		<0.5	7.54	<5	483	<0.5	<2	6.07	<0.5
127458	Core	6.13		0.006		0.5	7.59	<5	508	<0.5	<2	6.26	<0.5
127459	Core	6.61		0.052		<0.5	8.85	<5	276	0.5	2	5.59	<0.5
127460	Core	7.20		0.010		<0.5	7.59	<5	249	0.5	<2	6.36	<0.5
127461	Core	7.33		<0.005		<0.5	7.96	<5	309	<0.5	<2	7.09	<0.5
127462	Core	8.18		0.006		<0.5	8.63	<5	327	0.5	<2	6.57	<0.5
127463*	Core	7.47		0.017		<0.5	8.36	<5	372	0.5	3	6.59	<0.5
127464	Core	8.17		0.014		<0.5	8.89	<5	395	0.6	3	5.58	<0.5
127465	Core	7.12		0.017		<0.5	9.08	<5	221	0.6	<2	6.58	<0.5
127466	Core	3.89		<0.005		<0.5	8.88	<5	86	0.6	2	5.79	<0.5
127467	Core	4.72		0.033		0.6	8.87	<5	222	0.5	<2	6.20	<0.5
127468	Core	8.39		0.008		<0.5	8.90	<5	163	0.6	<2	6.05	<0.5
127469	Core	7.20		0.014		<0.5	8.87	<5	148	0.6	3	6.19	<0.5
127470	Core	7.14		0.007		<0.5	9.02	<5	242	0.6	<2	5.45	<0.5
127471	Core	5.04		0.016		0.5	8.81	<5	121	0.6	<2	5.66	<0.5
127472	Core	7.80		0.013		<0.5	9.02	<5	493	<0.5	<2	5.72	<0.5
127473	Core	8.01		0.340	18550	11.6	8.17	9	262	<0.5	40	4.78	6.3
127474	Core	6.68		0.215		2.6	8.71	<5	284	0.6	<2	5.23	2.5

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127475*	Core	3.37		0.119		1.1	8.73	<5	155	0.6	<2	3.85	0.8
127476	Core	7.50		0.015		<0.5	9.02	<5	349	0.5	4	6.17	<0.5
127477	Core	7.55		0.024		<0.5	9.18	<5	463	<0.5	<2	6.05	<0.5
127478	Core	7.74		0.026		<0.5	8.98	<5	463	0.6	2	6.79	<0.5
127479	Core	7.73		0.012		<0.5	8.87	<5	207	0.6	<2	6.14	<0.5
127480	Pulp	0.09		1.476		33.0	7.14	23	876	1.0	3	1.78	<0.5
127481	Core	7.06		0.012		<0.5	9.01	<5	285	0.6	<2	6.09	<0.5
127482	Core	7.68		0.006		<0.5	9.05	<5	301	0.6	<2	5.91	<0.5
127483	Core	7.11		0.007		<0.5	8.43	<5	993	0.6	<2	5.18	1.7
127484	Core	5.40		0.045		0.5	8.23	<5	744	0.6	<2	6.18	<0.5
127485	Core	7.55		0.038		0.9	8.34	<5	1951	0.7	2	4.36	1.0
127486	Core	7.09		0.068		1.0	8.20	<5	1062	0.7	5	4.59	<0.5
127487	Core	4.58		0.051		<0.5	9.03	<5	256	0.7	3	4.11	<0.5
127488	Core	2.33		0.049		1.0	7.23	16	204	0.6	<2	7.41	0.5
127489	Core	7.66		0.033		0.5	8.33	<5	296	0.6	2	4.70	<0.5
127490	Core	6.69		0.106		<0.5	9.08	<5	333	0.6	<2	3.84	<0.5
127491	Core	7.05		0.195		<0.5	10.32	<5	390	0.5	4	3.52	<0.5
127492	Core	6.93		0.558		1.1	7.84	<5	237	0.6	<2	4.59	<0.5
127493	Core	6.82		0.094		<0.5	9.10	<5	460	0.6	4	4.12	<0.5
127494	Core	5.30		0.121		<0.5	9.91	<5	593	0.5	6	3.70	<0.5
127495	Core	8.22		0.105		0.7	8.20	<5	525	0.6	<2	4.73	<0.5
127496	Core	6.78		0.088		<0.5	7.80	8	387	<0.5	5	5.34	<0.5
127497	Core	7.46		0.217		0.9	8.38	<5	451	0.5	<2	5.10	<0.5
127427 PD	QC-PD	--		0.021		<0.5	9.73	<5	604	0.7	<2	3.93	<0.5
127457 PD	QC-PD	--		<0.005		<0.5	7.46	<5	476	<0.5	2	5.97	<0.5

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
127487 PD	QC-PD	--	LOR	0.005 0.046	10	0.5	0.01	5	10	0.5	2	0.01	0.5
DUP 127428						1.1	8.74	12	267	0.7	4	4.28	<0.5
DUP 127463						<0.5	8.32	<5	372	0.5	<2	6.55	<0.5
DUP 127457				<0.005									
DUP 127485				0.040									
DUP 127473					19402								
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK					<10								
STD OREAS 24b						<0.5	7.83	7	731	2.7	<2	1.04	<0.5
STD GBM908-10						2.9	7.48	62	1108	1.6	<2	3.78	1.6
STD CDN-GS-2R				2.122									
STD CDN-GS-P4C				0.375									
STD OREAS 504					11369								

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To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710130

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns (Sample ID, ICP-230 Co, ICP-230 Cr, ICP-230 Cu, ICP-230 Fe, ICP-230 Ga, ICP-230 K, ICP-230 La, ICP-230 Mg, ICP-230 Mn, ICP-230 Mo, ICP-230 Na, ICP-230 Ni, ICP-230 P) and 25 rows of data.

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127450	60	35	8984	6.46	18	1.54	11	1.19	1910	329	1.27	23	709
127451	29	19	15	6.67	23	1.02	<10	2.43	961	<1	4.32	7	1334
127452	30	23	24	6.65	24	0.83	<10	2.28	970	2	4.44	9	1364
127453	33	17	11	6.90	24	1.24	<10	2.29	1009	<1	4.24	10	1310
127454	27	14	11	6.36	24	1.21	<10	2.43	1066	1	4.55	8	1470
127455	29	14	21	6.33	22	1.03	<10	2.34	1104	3	4.47	10	1450
127456	48	149	564	9.42	25	0.85	<10	4.56	1819	<1	2.68	74	1001
127457	54	148	206	8.69	25	0.85	<10	4.70	1524	3	2.64	76	1081
127458	58	129	153	9.32	24	1.05	<10	4.46	1534	<1	2.35	57	1116
127459	44	35	485	8.04	24	0.63	<10	2.88	1055	3	3.21	21	1041
127460	56	162	253	7.87	27	0.66	<10	4.27	1070	3	2.59	67	1144
127461	30	109	88	7.72	22	0.71	<10	4.16	1230	<1	2.51	51	1261
127462	29	59	145	7.37	25	0.81	<10	3.38	1187	<1	2.74	23	989
127463*	43	103	351	8.06	25	0.76	<10	3.91	1406	<1	2.62	38	907
127464	75	16	347	8.08	24	0.73	<10	2.86	1075	3	2.96	7	999
127465	34	11	406	7.52	24	0.46	<10	2.81	1084	1	3.00	6	1009
127466	50	17	244	8.09	25	0.25	<10	2.85	1331	2	3.24	8	996
127467	99	26	960	9.11	25	0.62	<10	2.94	1247	2	2.85	16	1055
127468	81	18	202	9.29	25	0.38	<10	2.82	1218	2	2.92	10	1011
127469	65	15	336	9.59	26	0.31	<10	2.85	1499	3	2.92	8	966
127470	46	15	142	8.88	23	0.51	<10	2.99	1545	2	3.15	7	989
127471	102	17	460	9.60	26	0.29	<10	2.95	1477	9	2.93	9	911
127472	69	37	273	8.50	26	1.11	<10	3.05	1224	1	2.68	17	712
127473	124	40	>10000	13.09	30	0.58	<10	3.16	2611	4	1.88	53	568
127474	67	34	5056	10.60	26	0.58	<10	3.11	2298	1	2.35	30	500

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
127475*	119	35	2446	10.51	26	0.44	<10	3.04	2029	3	3.24	22	752
127476	51	36	238	7.76	25	0.96	<10	3.24	1184	<1	2.50	19	658
127477	33	34	404	7.94	22	1.21	<10	3.41	1082	<1	2.52	20	650
127478	35	39	491	7.74	24	1.15	<10	3.34	1114	<1	2.32	19	543
127479	60	36	268	8.85	27	0.75	<10	3.32	1331	4	2.57	23	746
127480	8	31	3117	2.86	16	2.04	<10	0.24	439	403	2.44	18	404
127481	36	31	343	8.19	24	0.95	<10	3.10	1297	4	2.72	18	1061
127482	28	37	226	7.88	23	1.00	<10	2.83	1336	<1	2.92	17	705
127483	74	23	820	9.74	24	1.84	<10	2.58	2047	<1	2.04	27	822
127484	36	45	1217	8.77	25	1.38	<10	2.64	1785	2	2.35	22	653
127485	83	66	1596	8.79	22	2.14	<10	2.57	1366	<1	1.96	36	886
127486	66	48	2456	8.88	25	1.66	<10	2.25	1369	9	2.14	34	865
127487	46	23	813	7.54	22	0.66	<10	1.88	1015	1	3.46	23	962
127488	49	40	1177	7.34	20	0.67	<10	2.90	1459	1	1.77	30	917
127489	47	72	1017	8.77	22	1.05	<10	3.08	1147	24	3.07	27	1028
127490	44	31	972	9.59	26	1.37	<10	3.57	1016	7	2.76	16	899
127491	47	30	2168	9.25	25	1.59	<10	3.92	1005	3	2.62	14	722
127492	81	52	4768	9.60	25	1.40	<10	3.27	1015	5	2.30	26	931
127493	41	26	1242	9.24	26	1.90	<10	3.67	919	4	2.41	10	857
127494	48	29	1183	9.41	28	2.14	<10	3.74	1151	4	2.50	12	916
127495	46	48	1391	8.34	23	1.86	<10	2.97	1316	2	2.68	23	985
127496	46	32	1069	8.49	26	1.50	<10	2.70	1242	<1	2.12	18	835
127497	61	56	2270	8.84	26	1.41	<10	3.20	1396	<1	2.57	31	863
127427 PD	46	29	113	5.90	21	1.15	<10	2.20	1632	2	4.08	8	1040
127457 PD	52	147	188	8.52	24	0.84	<10	4.62	1496	2	2.65	74	1102

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710130**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127487 PD	47	26	765	7.45	24	0.70	<10	1.85	1014	1	3.51	22	956
DUP 127428	116	45	1022	9.49	25	0.74	<10	2.65	1566	3	3.28	19	950
DUP 127463	43	102	348	7.96	23	0.75	<10	3.87	1400	2	2.58	37	899
DUP 127457													
DUP 127485													
DUP 127473													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD BLANK													
STD OREAS 24b	15	118	37	4.44	23	2.85	30	1.66	436	4	0.84	59	701
STD GBM908-10	25	137	3798	5.98	27	2.29	38	1.97	806	61	2.34	2171	1036
STD CDN-GS-2R													
STD CDN-GS-P4C													
STD OREAS 504													

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
2	2	0.01	5	2	1	8	0.01	10	1	10	2	5
Prep Blank	<2	<0.01	<5	<2	6	<8	0.04	<10	6	<10	<2	9
Prep Blank	<2	<0.01	<5	<2	6	<8	0.04	<10	5	<10	<2	14
127427*	10	0.48	<5	20	418	<8	0.40	<10	211	<10	142	56
127428	21	3.07	<5	24	294	<8	0.42	<10	236	<10	189	35
127429*	11	1.98	<5	26	417	<8	0.47	<10	219	10	39	36
127430	4	1.26	<5	30	419	<8	0.45	<10	243	<10	45	29
127431	8	0.94	<5	35	463	<8	0.45	<10	257	<10	51	29
127432	9	0.96	<5	36	302	<8	0.51	<10	291	11	256	33
127433	14	0.81	<5	26	486	<8	0.47	<10	230	<10	106	26
127434	11	0.80	<5	25	497	<8	0.49	<10	248	<10	227	24
127435	68	1.24	<5	34	307	<8	0.45	<10	274	<10	416	30
127436	12	1.11	<5	30	427	<8	0.47	<10	261	<10	203	29
127437	6	0.13	<5	21	468	<8	0.39	<10	268	11	86	56
127438	8	0.05	<5	20	499	<8	0.38	<10	256	<10	75	57
127439	13	0.09	<5	21	503	<8	0.39	<10	256	<10	83	57
127440	9	0.08	<5	22	420	<8	0.40	<10	256	<10	80	56
127441	10	0.14	<5	27	467	<8	0.41	<10	275	<10	80	56
127442	11	0.99	<5	22	264	<8	0.41	<10	267	<10	65	56
127443	20	0.34	<5	28	352	<8	0.43	11	249	<10	163	40
127444	8	0.25	6	27	457	<8	0.42	<10	250	<10	65	46
127445	11	0.26	<5	30	369	<8	0.44	<10	259	<10	198	32
127446	6	0.22	<5	31	423	<8	0.46	<10	258	<10	69	27
127447	8	0.28	<5	31	326	<8	0.46	<10	245	10	99	22
127448	6	0.09	<5	29	315	<8	0.42	<10	227	<10	53	21
127449	10	0.13	<5	28	389	<8	0.36	<10	232	<10	39	59

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
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Project Name: Hat  
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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127450	116	1.62	21	9	373	<8	0.17	<10	77	17	1399	29
127451	9	0.09	<5	30	365	<8	0.38	<10	260	<10	50	54
127452	7	0.11	6	31	358	<8	0.38	<10	246	<10	52	54
127453	9	0.10	<5	28	366	<8	0.38	11	251	<10	50	54
127454	12	0.09	<5	36	446	<8	0.40	<10	250	<10	43	62
127455	8	0.13	<5	34	435	<8	0.39	<10	232	<10	37	63
127456	23	0.19	6	39	336	<8	0.50	<10	294	<10	737	27
127457	10	0.23	6	43	421	<8	0.53	<10	265	<10	78	29
127458	10	0.32	<5	44	381	<8	0.54	<10	281	<10	60	28
127459	5	0.65	<5	26	395	<8	0.45	<10	282	<10	54	47
127460	9	0.49	<5	39	386	<8	0.47	<10	257	<10	51	25
127461	11	0.13	<5	39	490	<8	0.44	<10	257	<10	58	23
127462	9	0.23	<5	33	484	<8	0.50	<10	285	<10	54	23
127463*	11	0.48	7	36	509	<8	0.44	<10	249	<10	55	24
127464	7	0.99	6	28	469	<8	0.49	<10	319	<10	46	48
127465	5	0.37	<5	28	368	<8	0.50	<10	302	<10	58	49
127466	12	0.36	5	28	281	<8	0.51	<10	318	<10	66	49
127467	10	0.87	<5	28	367	<8	0.46	<10	271	<10	53	27
127468	11	0.70	<5	28	332	<8	0.49	<10	307	<10	48	46
127469	8	0.49	<5	28	292	<8	0.50	<10	326	<10	50	48
127470	11	0.28	<5	30	362	<8	0.52	<10	321	11	54	48
127471	11	0.64	<5	27	227	<8	0.48	<10	312	<10	54	45
127472	7	0.50	<5	28	425	<8	0.42	<10	266	<10	50	23
127473	90	2.25	<5	25	221	<8	0.37	<10	256	10	2489	18
127474	43	0.99	<5	28	242	<8	0.39	<10	261	<10	516	19

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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127475*	19	1.71	<5	29	209	<8	0.44	<10	264	<10	317	20
127476	9	0.46	<5	28	275	<8	0.43	<10	282	11	56	20
127477	12	0.22	<5	30	359	<8	0.45	<10	297	<10	54	20
127478	7	0.22	<5	30	334	<8	0.42	<10	283	11	60	18
127479	12	0.54	<5	31	226	<8	0.43	<10	279	<10	55	19
127480	64	1.02	80	<2	585	<8	0.11	<10	39	<10	61	10
127481	9	0.21	<5	30	225	<8	0.52	<10	279	13	57	20
127482	10	0.11	<5	28	244	<8	0.43	<10	277	<10	56	19
127483	32	0.78	<5	25	243	<8	0.43	<10	258	<10	374	18
127484	13	0.44	<5	26	223	<8	0.38	<10	264	<10	67	17
127485	21	0.75	<5	27	229	<8	0.42	<10	294	<10	166	16
127486	14	0.87	<5	25	262	<8	0.41	11	262	<10	63	21
127487	11	0.49	<5	21	277	<8	0.42	<10	235	<10	69	23
127488	17	0.64	<5	23	173	<8	0.37	11	219	<10	99	26
127489	9	0.61	<5	25	208	<8	0.43	<10	253	<10	84	27
127490	10	0.65	<5	34	252	<8	0.45	<10	331	<10	49	35
127491	16	0.89	<5	47	296	<8	0.49	<10	337	<10	54	36
127492	12	2.09	<5	27	196	<8	0.42	<10	234	<10	84	30
127493	7	0.50	<5	39	366	<8	0.46	<10	346	<10	52	36
127494	11	0.58	<5	48	284	<8	0.47	<10	339	<10	61	40
127495	13	0.87	5	24	318	<8	0.42	<10	250	<10	127	34
127496	12	1.02	<5	27	315	<8	0.41	<10	289	<10	95	32
127497	9	1.16	<5	28	378	<8	0.42	<10	265	<10	136	33
127427 PD	12	0.47	<5	19	421	<8	0.40	<10	208	<10	135	56
127457 PD	9	0.21	6	42	416	<8	0.52	<10	260	<10	77	29

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710130</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Sample ID	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127487 PD	11	0.48	<5	21	284	<8	0.43	<10	234	11	69	23
DUP 127428	21	3.09	7	24	295	<8	0.42	<10	238	11	195	36
DUP 127463	7	0.49	7	36	503	<8	0.42	<10	248	<10	55	25
DUP 127457												
DUP 127485												
DUP 127473												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD BLANK												
STD OREAS 24b	28	0.19	<5	16	125	16	0.46	<10	109	<10	107	134
STD GBM908-10	1986	0.37	<5	19	302	16	0.69	<10	143	<10	1057	147
STD CDN-GS-2R												
STD CDN-GS-P4C												
STD OREAS 504												

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Langley, BC V1M 4B4  
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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710131**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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 Langley, BC V1M 4B4  
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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
Prep Blank	QC-P-BK	--	LOR	<0.005	10	<0.5	9.01	<5	604	0.8	<2	4.42	0.8
Prep Blank	QC-P-BK	--		<0.005		<0.5	8.87	<5	604	0.7	<2	4.34	<0.5
127304	Core	8.65		0.040		<0.5	8.33	<5	331	0.6	<2	6.03	0.6
127305	Core	7.78		0.258		<0.5	7.56	<5	204	0.6	<2	6.17	<0.5
127306	Core	8.18		0.061		<0.5	7.57	<5	144	0.7	4	5.54	<0.5
127307	Core	5.05		0.033		<0.5	8.60	<5	142	0.7	<2	5.46	<0.5
127308	Core	4.33		0.010		<0.5	9.94	<5	141	0.6	3	5.65	<0.5
127309	Core	6.71		0.072		<0.5	8.60	<5	206	0.6	<2	5.87	<0.5
127310	Core	8.40		0.877		1.1	7.33	21	197	0.7	<2	5.45	<0.5
127311	Core	8.90		0.261		<0.5	7.29	<5	338	0.6	<2	5.59	<0.5
127312	Core	7.85		0.267		<0.5	7.82	<5	488	0.7	4	5.68	<0.5
127313	Core	5.79		0.193		<0.5	7.36	<5	273	0.6	<2	6.16	<0.5
127314	Core	4.13		0.408		0.6	7.40	<5	651	0.6	<2	5.58	<0.5
127315	Core	8.76		0.482		0.8	7.25	<5	405	0.7	6	5.83	<0.5
127316	Core	8.91		0.660		0.5	7.82	<5	288	0.7	<2	5.51	<0.5
127317	Core	8.46		1.344	14063	1.1	6.15	<5	108	0.6	<2	5.45	<0.5
127318	Core	7.78		1.292	12842	0.9	7.45	<5	337	0.6	<2	4.78	<0.5
127319	Core	3.53		3.115	30821	2.6	4.17	<5	279	0.5	<2	3.76	<0.5
127320	Core	8.59		0.802		0.9	7.54	<5	60	0.8	<2	5.95	<0.5
127321	Core	7.69		1.299	14837	1.2	7.41	<5	351	0.7	4	5.25	<0.5
127322	Core	9.18		0.180		<0.5	7.47	<5	154	0.7	3	5.65	<0.5
127323	Core	8.43		0.413		<0.5	7.50	<5	207	0.7	<2	5.21	<0.5
127324	Core	4.70		0.351		<0.5	8.26	<5	87	0.6	2	5.06	<0.5
127325	Core	7.89		0.100		<0.5	7.25	<5	71	0.6	<2	5.64	<0.5
127326	Core	7.20		0.364		<0.5	7.15	<5	439	0.6	<2	5.97	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127327	Core	7.84		0.100		<0.5	7.77	<5	198	0.6	4	5.90	<0.5
127328	Core	5.44		0.232		<0.5	6.85	<5	128	0.6	<2	7.14	<0.5
127329	Core	5.06		0.487		0.6	6.49	<5	54	0.6	<2	5.71	<0.5
127330	Pulp	0.09		0.483		3.3	6.03	528	672	0.8	7	5.38	0.9
127331	Core	7.38		0.423		<0.5	7.70	<5	161	0.6	3	5.87	<0.5
127332	Core	8.01		0.224		<0.5	8.23	<5	163	0.6	4	6.64	<0.5
127333	Core	8.18		0.406		<0.5	7.54	<5	136	0.6	<2	6.35	<0.5
127334	Core	8.33		0.186		<0.5	8.36	<5	192	0.6	<2	6.04	<0.5
127335	Core	8.34		0.122		0.6	7.70	<5	562	0.6	<2	4.79	<0.5
127336	Core	8.21		0.107		<0.5	6.38	<5	415	0.5	3	5.55	<0.5
127337	Core	7.73		0.019		<0.5	7.41	<5	145	0.5	<2	5.49	<0.5
127338	Core	8.46		0.208		0.5	5.91	<5	85	0.6	<2	6.39	<0.5
127339	Core	5.62		0.027		<0.5	7.05	<5	56	0.5	<2	4.95	0.6
127340	Core	6.18		0.071		<0.5	6.95	<5	107	0.6	<2	5.29	<0.5
127341	Core	6.92		0.037		<0.5	7.34	<5	192	0.8	<2	5.14	<0.5
127342	Core	8.58		0.139		<0.5	7.53	<5	153	0.7	<2	5.91	<0.5
127343	Core	8.68		0.230		<0.5	7.36	<5	165	0.6	<2	5.62	<0.5
127344	Core	7.33		0.102		<0.5	7.77	<5	159	0.7	<2	5.29	<0.5
127345	Core	8.46		0.135		<0.5	8.29	<5	210	0.7	<2	5.14	<0.5
127346	Core	6.71		0.023		<0.5	9.05	<5	283	0.8	<2	5.33	<0.5
127347	Core	5.30		0.117		<0.5	7.55	<5	146	0.7	4	5.40	0.5
127348	Core	5.97		0.145		<0.5	7.29	<5	117	0.7	3	5.44	<0.5
127349	Core	8.44		0.059		<0.5	8.81	<5	269	0.7	3	5.28	<0.5
127350*	Core	8.34		0.025		<0.5	8.74	<5	242	0.7	2	4.66	<0.5
127351	Core	5.49		0.054		<0.5	8.30	<5	131	0.7	2	6.19	<0.5

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127352	Core	8.50		0.129		<0.5	8.45	<5	129	0.7	<2	4.82	<0.5
127353	Core	7.34		0.249		<0.5	8.57	<5	192	0.7	<2	4.91	0.5
127354	Core	4.63		0.040		<0.5	8.50	<5	208	0.7	<2	4.91	<0.5
127355	Core	8.67		0.063		<0.5	5.62	<5	89	0.6	<2	5.33	<0.5
127356*	Core	9.75		0.178		0.6	5.84	<5	91	0.5	3	5.67	<0.5
127357	Core	9.42		0.104		<0.5	6.38	<5	81	0.6	<2	6.16	<0.5
127358	Core	8.69		0.043		<0.5	6.62	<5	151	0.5	3	5.95	<0.5
127359*	Core	10.43		0.172		<0.5	6.56	<5	144	0.5	<2	5.26	<0.5
127360	Pulp	0.09		0.829		12.5	5.43	1109	627	0.7	25	7.29	9.0
127361	Core	7.29		0.233		0.7	5.93	<5	103	0.6	4	5.44	<0.5
127362	Core	7.99		0.190		<0.5	6.54	<5	98	0.7	9	5.75	<0.5
127363	Core	6.06		0.148		<0.5	7.62	<5	128	0.7	<2	5.74	<0.5
127364	Core	4.83		0.223		<0.5	7.72	<5	154	0.8	<2	5.88	0.6
127365	Core	8.67		0.181		<0.5	7.60	<5	80	0.8	<2	6.59	<0.5
127366	Core	10.07		0.479		0.5	6.23	<5	304	0.7	<2	5.72	<0.5
127367	Core	5.39		0.281		<0.5	7.00	<5	99	0.7	<2	6.70	<0.5
127368	Core	5.97		0.144		<0.5	7.14	<5	84	0.7	5	6.31	<0.5
127369	Core	8.26		0.239		<0.5	7.22	<5	128	0.7	<2	5.56	<0.5
127370	Core	7.93		0.083		<0.5	7.00	<5	94	0.7	3	6.25	0.6
127371	Core	6.00		0.171		0.5	7.63	<5	126	0.7	<2	6.32	<0.5
127372	Core	3.74		0.129		0.8	5.63	<5	48	0.6	<2	6.21	<0.5
127373	Core	9.04		0.123		<0.5	6.32	<5	129	0.6	<2	6.54	0.7
127374	Core	9.85		0.113		<0.5	5.70	<5	88	0.6	<2	5.83	<0.5
127375	Core	8.09		0.072		0.5	6.23	<5	68	0.7	2	5.49	0.5
127304 PD	QC-PD	--		0.036		0.6	8.25	<5	341	0.6	<2	6.04	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
127334 PD	QC-PD	--	LOR	0.186	10	<0.5	8.29	<5	187	0.6	7	5.96	0.5
127364 PD	QC-PD	--		0.217		0.7	7.68	<5	155	0.8	3	5.88	<0.5
DUP 127338						<0.5	5.85	<5	83	0.6	3	6.33	<0.5
DUP 127365						<0.5	7.61	<5	81	0.8	6	6.65	<0.5
DUP 127317					14496								
DUP 127364				0.224									
DUP 127374				0.110									
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK					<10								
STD BLANK				<0.005									
STD BLANK				<0.005									
STD GBM908-10						2.9	7.36	58	1089	1.6	3	3.70	2.4
STD CDN-CM-38						5.7	5.57	39	245	0.6	<2	0.50	5.3
STD MP-1b					30557								
STD CDN-GS-P4C				0.335									
STD CDN-GS-2M				2.275									

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**CERTIFICATE OF ANALYSIS: YVR1710131**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
1	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
Prep Blank	13	113	61	4.33	22	1.34	<10	1.76	896	<1	2.62	8	632
Prep Blank	14	94	71	4.31	20	1.33	<10	1.76	890	1	2.57	7	621
127304	37	98	601	8.37	25	0.93	<10	3.72	758	<1	2.71	38	896
127305	71	136	1950	11.60	30	0.77	<10	3.80	786	3	2.54	55	960
127306	79	163	615	10.39	27	0.56	<10	3.86	688	3	3.15	64	1069
127307	30	109	315	8.43	27	0.56	<10	3.53	831	<1	3.54	37	926
127308	22	54	56	6.86	27	0.45	<10	2.57	1101	<1	3.80	26	1296
127309	49	56	977	9.62	30	1.07	<10	3.51	600	<1	2.74	33	1084
127310	168	119	9901	13.57	34	0.62	<10	3.39	629	4	2.39	67	1068
127311	93	154	2676	10.65	28	0.75	<10	4.17	543	<1	2.74	51	1238
127312	66	125	2678	10.41	27	0.77	<10	3.50	490	<1	2.98	35	1246
127313	73	167	2312	9.95	27	0.60	<10	4.55	588	<1	2.66	39	926
127314	60	159	4743	9.70	28	0.73	<10	4.30	570	<1	2.74	31	1008
127315	81	152	5389	10.52	27	0.76	<10	4.28	581	<1	2.62	39	1003
127316	94	110	6347	9.09	25	0.60	<10	3.76	612	<1	3.11	33	1075
127317	143	201	>10000	14.66	32	0.47	<10	4.13	693	4	2.31	65	780
127318	135	69	>10000	13.85	33	0.66	<10	2.69	518	4	2.91	40	983
127319	403	93	>10000	27.84	44	0.46	<10	3.03	409	4	1.50	134	1654
127320	76	82	7623	12.45	29	0.31	<10	3.07	655	<1	2.90	32	859
127321	183	61	>10000	14.24	30	0.65	<10	2.67	562	3	2.50	65	850
127322	74	178	2144	8.87	27	0.65	<10	4.30	699	<1	2.98	57	1221
127323	84	132	3763	10.41	28	0.69	<10	3.57	727	<1	3.10	58	844
127324	57	54	4472	9.04	24	0.41	<10	2.52	559	<1	3.79	34	1085
127325	66	73	1577	11.18	29	0.31	<10	3.41	439	4	2.85	42	987
127326	46	69	3736	10.11	24	0.66	<10	3.97	489	<1	2.79	26	1043

\*\*\*Please refer to the cover page for comments regarding this certificate.\*\*\*



An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127327	36	149	1198	9.34	27	0.73	<10	4.06	485	<1	2.87	29	933
127328	65	301	3793	9.45	26	0.53	<10	4.88	665	<1	1.87	101	850
127329	171	99	4461	13.41	30	0.21	<10	3.49	629	<1	2.58	72	897
127330	24	38	5412	5.37	18	1.67	<10	1.13	1389	556	1.59	28	653
127331	63	75	3577	9.16	28	0.57	<10	3.70	564	<1	2.44	44	860
127332	47	90	2316	8.64	29	0.60	<10	4.08	637	<1	2.60	41	880
127333	55	137	2792	9.47	26	0.48	<10	4.07	746	<1	2.56	48	818
127334	40	127	2078	8.84	28	0.65	<10	3.65	632	<1	2.95	42	1035
127335	148	104	1980	13.47	29	0.95	<10	3.21	594	<1	2.73	99	975
127336	73	77	1963	15.20	31	0.67	<10	4.09	567	<1	2.52	55	990
127337	37	85	517	9.33	29	0.51	<10	4.01	469	<1	3.20	30	1044
127338	112	278	3575	13.86	33	0.38	<10	4.89	656	<1	2.13	87	1111
127339	56	72	975	11.34	29	0.26	<10	3.96	568	<1	3.41	51	1022
127340	50	371	1376	9.39	28	0.44	<10	5.45	845	<1	2.73	134	1089
127341	32	229	629	8.47	26	0.55	<10	4.43	703	<1	3.20	89	1484
127342	40	147	2101	9.83	26	0.59	<10	4.06	682	<1	2.88	56	1083
127343	74	158	4084	10.89	28	0.59	<10	4.06	640	<1	2.77	70	1032
127344	40	94	1820	11.90	29	0.52	<10	3.11	495	<1	3.13	43	1029
127345	40	70	1747	8.72	25	0.61	<10	2.75	441	<1	3.71	27	1401
127346	23	29	435	7.24	29	0.51	<10	2.48	295	<1	3.89	11	1528
127347	38	123	1665	11.62	30	0.45	<10	3.42	458	<1	3.18	41	1067
127348	49	98	2289	12.07	30	0.41	<10	3.52	421	<1	3.05	41	1140
127349	29	33	647	7.63	26	0.52	<10	2.78	345	<1	3.46	18	1458
127350*	33	29	428	7.19	26	0.56	<10	2.47	395	32	3.85	14	1249
127351	30	29	374	6.86	26	0.35	<10	2.23	483	<1	3.98	11	1193

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Unit 1, 20120 102nd Avenue
Langley, BC V1M 4B4
Phone: +1-604-888-0875

To: Terracad Geoscience Services Ltd.
Suite 880-409 Granville St.
Vancouver, BC
V6C 1T2

CERTIFICATE OF ANALYSIS: YVR1710131

Project Name: Hat
Job Received Date: 23-Dec-2016
Job Report Date: 25-Jan-2017
Report Version: Final

Table with 14 columns: Sample ID, ICP-230 Co ppm, ICP-230 Cr ppm, ICP-230 Cu ppm, ICP-230 Fe %, ICP-230 Ga ppm, ICP-230 K %, ICP-230 La ppm, ICP-230 Mg %, ICP-230 Mn ppm, ICP-230 Mo ppm, ICP-230 Na %, ICP-230 Ni ppm, ICP-230 P ppm. Rows include sample IDs 127352 through 127304 PD.

\*\*\*Please refer to the cover page for comments regarding this certificate. \*\*\*



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 Langley, BC V1M 4B4  
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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
127334 PD	39	115	2129	8.79	27	0.64	<10	3.62	626	<1	2.93	39	1031
127364 PD	45	62	2533	10.95	33	0.81	<10	4.16	757	<1	2.48	44	1721
DUP 127338	109	278	3625	13.63	30	0.38	<10	4.82	650	<1	2.09	85	1107
DUP 127365	47	53	1413	12.85	35	0.44	<10	3.35	857	<1	2.37	43	1768
DUP 127317													
DUP 127364													
DUP 127374													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD BLANK													
STD BLANK													
STD GBM908-10	25	130	3676	5.89	29	2.28	32	1.98	788	63	2.33	2206	1042
STD CDN-CM-38	13	18	6639	6.89	20	2.10	<10	0.50	765	189	0.15	16	515
STD MP-1b													
STD CDN-GS-P4C													
STD CDN-GS-2M													

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**CERTIFICATE OF ANALYSIS: YVR1710131**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Prep Blank	24	<0.01	5	19	511	<8	0.32	<10	144	<10	66	22
Prep Blank	14	<0.01	<5	19	501	<8	0.32	<10	143	10	65	20
127304	9	0.44	<5	32	483	<8	0.45	<10	259	<10	42	25
127305	12	1.36	<5	31	411	<8	0.42	<10	247	13	40	28
127306	12	1.43	8	26	469	<8	0.39	<10	251	<10	33	29
127307	8	0.49	6	28	503	<8	0.45	<10	233	<10	48	33
127308	10	0.06	<5	18	337	<8	0.49	<10	188	<10	83	40
127309	8	0.75	<5	31	496	<8	0.44	<10	275	<10	33	32
127310	8	3.35	<5	25	474	<8	0.36	<10	267	14	33	28
127311	7	1.65	<5	34	376	<8	0.43	<10	259	<10	31	29
127312	9	1.21	9	29	443	<8	0.42	<10	242	<10	29	24
127313	10	1.29	8	32	327	<8	0.44	<10	259	<10	36	26
127314	4	1.41	<5	31	334	<8	0.45	<10	238	<10	33	26
127315	7	1.76	5	30	317	<8	0.42	<10	264	<10	35	31
127316	12	1.80	8	29	426	<8	0.48	<10	229	<10	36	29
127317	9	3.68	7	28	309	<8	0.37	<10	268	<10	46	26
127318	9	2.86	7	18	411	<8	0.39	<10	265	<10	42	24
127319	17	9.07	<5	18	173	<8	0.23	<10	379	<10	48	18
127320	8	1.59	6	23	213	<8	0.39	<10	269	<10	42	21
127321	14	4.04	<5	19	344	<8	0.38	<10	239	<10	40	19
127322	11	1.13	<5	31	370	<8	0.44	<10	246	<10	40	31
127323	9	1.53	5	28	367	<8	0.44	<10	254	<10	38	26
127324	13	1.18	<5	24	326	<8	0.45	<10	219	<10	33	23
127325	9	0.90	6	36	286	<8	0.39	<10	335	<10	27	39
127326	7	0.78	<5	35	417	<8	0.42	<10	295	<10	27	29

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127327	11	0.38	6	38	379	<8	0.45	<10	267	<10	28	30
127328	11	1.06	<5	34	270	<8	0.38	<10	252	<10	34	23
127329	12	2.21	6	31	307	<8	0.36	<10	288	<10	32	28
127330	17	0.53	11	9	424	<8	0.19	<10	84	<10	79	26
127331	10	1.14	<5	31	369	<8	0.50	<10	291	<10	33	28
127332	6	0.72	<5	34	370	<8	0.53	<10	286	<10	36	31
127333	7	0.77	9	30	417	<8	0.46	<10	284	<10	34	31
127334	10	0.49	<5	26	426	<8	0.48	<10	266	<10	34	24
127335	12	1.72	13	23	391	<8	0.43	<10	283	<10	41	18
127336	12	0.59	<5	39	345	<8	0.42	<10	342	<10	31	43
127337	14	0.22	<5	39	364	<8	0.42	<10	315	<10	28	44
127338	10	1.19	<5	33	265	<8	0.35	<10	323	<10	34	36
127339	9	0.42	7	38	228	<8	0.42	<10	310	<10	30	40
127340	8	0.41	8	24	351	<8	0.35	<10	216	<10	42	26
127341	7	0.20	<5	21	385	<8	0.41	<10	226	<10	37	27
127342	10	0.42	<5	34	380	<8	0.38	<10	254	<10	37	25
127343	9	0.86	<5	34	344	<8	0.38	<10	249	<10	37	24
127344	12	0.41	<5	26	377	<8	0.41	<10	301	<10	32	22
127345	9	0.46	6	24	485	<8	0.40	<10	251	<10	25	39
127346	9	0.11	<5	22	598	<8	0.40	<10	262	<10	19	44
127347	15	0.36	<5	28	440	<8	0.37	<10	295	<10	27	25
127348	10	0.56	8	32	383	<8	0.38	<10	311	11	27	28
127349	9	0.18	6	23	607	<8	0.40	<10	250	<10	20	43
127350*	11	0.19	<5	24	542	<8	0.41	<10	276	<10	21	41
127351	11	0.19	8	22	488	<8	0.39	<10	262	<10	19	38

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127352	10	0.71	<5	23	482	<8	0.40	<10	265	<10	20	39
127353	6	0.22	7	23	552	<8	0.40	<10	268	<10	21	40
127354	14	0.13	<5	25	483	<8	0.42	<10	288	11	22	41
127355	15	0.33	6	41	173	<8	0.45	<10	565	<10	40	24
127356*	14	0.59	<5	50	234	<8	0.51	<10	503	<10	41	26
127357	10	0.30	<5	36	233	<8	0.40	<10	442	<10	40	25
127358	11	0.18	<5	32	355	<8	0.39	<10	420	<10	44	27
127359*	11	0.43	5	28	340	<8	0.39	<10	536	<10	41	24
127360	100	1.63	26	8	367	<8	0.17	<10	79	16	1385	29
127361	10	0.46	8	25	319	<8	0.33	<10	678	<10	42	24
127362	10	0.50	<5	29	275	<8	0.36	<10	638	<10	43	23
127363	13	0.32	<5	35	425	<8	0.45	<10	429	<10	41	25
127364	7	0.49	<5	35	421	<8	0.45	<10	445	<10	43	27
127365	5	0.49	<5	31	736	<8	0.45	<10	396	<10	37	29
127366	11	0.40	7	24	355	<8	0.37	<10	618	<10	43	24
127367	10	0.48	12	33	645	<8	0.42	<10	333	<10	37	25
127368	7	1.00	<5	34	424	<8	0.38	<10	274	<10	47	27
127369	10	0.50	<5	29	401	<8	0.37	<10	282	<10	38	26
127370	11	0.32	6	31	303	<8	0.40	<10	346	<10	42	31
127371	12	0.45	9	26	383	<8	0.40	<10	313	<10	52	24
127372	10	0.44	6	28	174	<8	0.27	<10	558	<10	52	21
127373	14	0.26	9	46	272	<8	0.53	<10	546	<10	55	28
127374	11	0.46	5	44	258	<8	0.48	<10	634	<10	52	26
127375	12	0.49	9	32	269	<8	0.38	<10	570	<10	49	25
127304 PD	11	0.46	<5	32	474	<8	0.45	<10	261	<10	45	26

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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710131</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Sample ID	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127334 PD	10	0.48	9	26	421	<8	0.47	<10	264	<10	34	24
127364 PD	8	0.49	<5	35	420	<8	0.45	<10	438	10	43	28
DUP 127338	11	1.16	6	32	263	<8	0.34	<10	316	<10	34	35
DUP 127365	11	0.50	<5	31	743	<8	0.45	<10	399	<10	37	28
DUP 127317												
DUP 127364												
DUP 127374												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD BLANK												
STD GBM908-10	1929	0.38	7	19	295	17	0.68	<10	144	<10	1054	146
STD CDN-CM-38	123	4.98	6	5	80	<8	0.11	<10	57	<10	837	11
STD MP-1b												
STD CDN-GS-P4C												
STD CDN-GS-2M												

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To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710132**

Project Name: Hat  
Job Received Date: 23-Dec-2016  
Job Report Date: 25-Jan-2017  
Report Version: Final

**COMMENTS:**

\*Compromised sample.

Test results reported relate only to the samples as received by the laboratory. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition. Analytical results in unsigned reports marked "preliminary" are subject to change, pending final QC review. Please refer to MS Analyticals' *Schedule of Services and Fees* for our complete Terms and Conditions

SAMPLE PREPARATION	
METHOD CODE	DESCRIPTION
PRP-910	Dry, Crush to 70% passing 2mm, Split 250g, Pulverize to 85% passing 75µm

ANALYTICAL METHODS	
METHOD CODE	DESCRIPTION
FAS-121	Au, Fire Assay, 50g fusion, AAS, Trace Level
ICF-6Cu	Cu, 0.2g, 4-Acid, ICP-AES, Ore Grade
ICP-230	Multi-Element, 0.2g, 4-Acid, ICP-AES, Trace Level

**Signature:**

Yvette Hsi, BSc.  
Manager - Geochem  
MS Analytical



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**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
Sample ID		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
Prep Blank	QC-P-BK	--		<0.005		<0.5	0.45	<5	14	<0.5	<2	<0.01	<0.5
Prep Blank	QC-P-BK	--		<0.005		<0.5	0.46	<5	14	<0.5	<2	<0.01	<0.5
127231	Core	2.61		0.059		<0.5	9.60	<5	389	0.7	4	3.83	<0.5
127232	Core	5.86		0.547		1.1	9.16	<5	364	0.7	3	3.17	<0.5
127233	Core	4.21		0.110		0.8	8.80	9	557	0.7	3	3.02	<0.5
127234	Core	6.66		0.292		2.2	8.18	25	592	0.7	7	4.09	<0.5
127235*	Core	6.29		0.242		0.9	8.66	<5	1164	0.7	6	3.75	<0.5
127236	Core	5.17		0.926		3.1	8.93	<5	1279	0.7	<2	3.41	<0.5
127237	Core	5.07		0.685		3.3	8.56	9	371	0.7	8	3.43	<0.5
127238	Core	7.84		0.347		0.7	9.22	<5	246	0.7	2	4.54	0.6
127239*	Core	5.86		2.327	14894	3.9	7.68	<5	210	0.6	<2	3.87	0.6
127240	Pulp	0.09		0.489		3.6	6.28	550	681	0.8	4	5.52	0.7
127241	Core	0.62		0.107		<0.5	9.95	<5	296	0.8	3	3.41	<0.5
127242	Core	8.06		0.282		0.9	7.42	<5	248	0.6	6	4.90	<0.5
127243	Core	7.38		0.094		<0.5	7.97	11	324	0.7	5	4.88	<0.5
127244	Core	6.94		0.009		0.6	9.13	70	358	0.8	6	4.80	<0.5
127245	Core	7.03		0.021		<0.5	9.58	90	352	0.8	<2	3.96	0.6
127246*	Core	8.51		0.028		<0.5	8.80	<5	290	0.7	4	5.35	<0.5
127247	Core	9.06		0.017		<0.5	8.83	<5	381	0.7	<2	6.22	<0.5
127248	Core	7.23		0.019		<0.5	9.05	<5	450	0.7	2	5.43	<0.5
127249	Core	6.79		0.018		0.5	6.60	8	1320	1.1	<2	7.53	<0.5
127250*	Core	7.59		<0.005		0.5	6.96	9	1101	0.9	<2	7.14	<0.5
127251*	Core	7.72		0.026		2.4	7.86	17	928	0.8	<2	4.88	1.6
127252	Core	8.62		0.017		<0.5	7.92	<5	280	0.7	<2	6.37	<0.5
127253	Core	6.61		0.014		<0.5	8.26	<5	573	0.7	2	5.78	<0.5

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An A2 Global Company

MS Analytical  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127254*	Core	4.56		0.009		<0.5	11.00	6	390	0.8	3	3.88	<0.5
127255*	Core	3.74		0.036		<0.5	8.23	<5	629	0.7	4	4.90	<0.5
127256	Core	3.76		0.011		<0.5	7.87	<5	226	0.9	<2	5.33	<0.5
127257	Core	3.31		0.024		0.5	8.21	<5	2369	0.8	<2	4.26	<0.5
127258	Core	3.07		0.008		<0.5	12.74	<5	166	0.8	<2	4.64	<0.5
127259	Core	4.44		<0.005		0.6	12.88	<5	94	0.8	<2	4.28	<0.5
127260*	Core	6.71		0.023		<0.5	8.74	<5	639	0.8	5	4.57	<0.5
127261*	Core	7.63		0.017		<0.5	8.53	9	433	0.6	3	4.53	0.9
127262*	Core	7.52		0.006		<0.5	8.98	<5	272	0.8	5	4.59	0.5
127263	Core	5.36		<0.005		<0.5	7.88	<5	1071	0.8	6	5.07	0.5
127264	Core	5.53		0.034		<0.5	7.68	<5	1084	0.9	<2	5.09	0.9
127265*	Core	7.45		0.008		<0.5	9.12	<5	316	0.8	<2	4.82	<0.5
127266*	Core	3.54		<0.005		<0.5	12.31	<5	220	0.7	5	4.75	<0.5
127267	Core	8.05		0.049		<0.5	8.96	<5	650	0.8	3	4.88	<0.5
127268*	Core	7.70		0.188		1.7	9.09	15	542	0.8	10	4.59	1.0
127269*	Core	8.05		0.117		0.9	8.83	7	1914	1.0	4	3.63	<0.5
127270	Pulp	0.07		0.853		13.2	5.53	1097	616	0.7	24	7.29	9.0
127271*	Core	5.35		0.050		<0.5	8.65	<5	429	0.8	<2	4.45	<0.5
127272*	Core	6.77		0.050		<0.5	8.04	<5	550	0.8	4	4.70	<0.5
127273	Core	5.59		0.390		1.7	7.89	<5	240	0.7	<2	4.45	<0.5
127274*	Core	3.43		0.078		<0.5	8.10	<5	409	0.7	4	3.52	<0.5
127275	Core	2.15		<0.005		<0.5	12.04	<5	173	0.8	<2	5.03	<0.5
127276*	Core	8.37		0.045		<0.5	8.84	<5	349	0.7	3	4.52	<0.5
127277*	Core	7.15		0.008		<0.5	8.90	<5	111	0.7	<2	5.05	<0.5
127278	Core	5.31		<0.005		<0.5	10.46	<5	246	0.7	4	4.48	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
---------------------------------	-------------------

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
		0.01	LOR	0.005	10	0.5	0.01	5	10	0.5	2	0.01	0.5
127279	Core	6.55		0.012		<0.5	12.30	<5	279	0.7	4	5.09	<0.5
127280*	Core	9.90		0.042		<0.5	8.44	<5	347	0.8	<2	4.92	<0.5
127281*	Core	4.67		0.025		<0.5	8.55	<5	316	0.6	8	5.51	<0.5
127282	Core	4.66		0.022		<0.5	8.59	<5	120	0.8	<2	4.32	<0.5
127283	Core	7.97		0.146		0.6	7.79	<5	702	0.8	7	4.10	<0.5
127284	Core	3.05		0.171		0.6	7.56	<5	627	0.8	<2	4.26	<0.5
127285	Core	6.84		0.045		<0.5	8.39	<5	511	1.1	4	4.48	<0.5
127286*	Core	7.08		0.127		0.6	8.55	<5	600	1.0	7	4.19	<0.5
127287*	Core	7.86		<0.005		<0.5	13.02	<5	73	0.8	<2	5.10	<0.5
127288*	Core	7.47		0.015		<0.5	8.79	<5	47	0.8	4	4.73	<0.5
127289*	Core	7.48		0.036		<0.5	8.87	<5	104	0.8	3	4.88	<0.5
127290*	Core	8.01		0.006		<0.5	9.02	<5	112	0.9	<2	5.02	<0.5
127291*	Core	8.94		0.092		<0.5	8.75	<5	115	0.8	3	4.73	<0.5
127292*	Core	4.55		0.033		<0.5	8.88	<5	86	0.8	<2	4.62	<0.5
127293	Core	1.70		0.125		0.7	8.82	<5	84	0.8	<2	4.13	<0.5
127294*	Core	8.00		0.146		<0.5	7.92	<5	969	0.9	4	5.00	<0.5
127295*	Core	7.19		0.083		<0.5	7.89	<5	593	1.0	<2	5.38	<0.5
127296	Core	9.10		0.025		<0.5	7.99	<5	239	0.8	7	5.79	<0.5
127297	Core	4.97		0.032		<0.5	7.02	<5	209	0.8	10	5.80	<0.5
127298	Core	5.72		0.410		<0.5	7.65	<5	334	0.8	<2	5.52	<0.5
127299	Core	5.42		2.621	23719	2.7	6.54	<5	356	0.7	<2	4.72	<0.5
127300	Pulp	0.07		1.457		32.2	7.32	26	869	1.1	<2	1.77	<0.5
127301	Core	7.92		0.062		<0.5	8.83	<5	261	0.8	5	5.69	<0.5
127302*	Core	8.37		0.044		<0.5	8.08	<5	280	0.7	4	5.75	<0.5
127303*	Core	7.10		0.031		<0.5	8.18	<5	560	0.7	5	6.39	<0.5

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	FAS-121 Au ppm	ICF-6Cu Cu ppm	ICP-230 Ag ppm	ICP-230 Al %	ICP-230 As ppm	ICP-230 Ba ppm	ICP-230 Be ppm	ICP-230 Bi ppm	ICP-230 Ca %	ICP-230 Cd ppm
127231 PD	QC-PD	--	LOR	0.054	10	<0.5	9.72	<5	392	0.7	5	3.81	<0.5
127261 PD	QC-PD	--		0.016		0.7	8.57	9	434	0.6	<2	4.55	<0.5
127291 PD	QC-PD	--		0.084		<0.5	8.75	<5	114	0.8	<2	4.67	<0.5
DUP 127254						<0.5	10.79	<5	382	0.8	<2	3.83	<0.5
DUP 127301						<0.5	8.83	<5	261	0.9	<2	5.70	<0.5
DUP 127296				0.020									
DUP 127301				0.060									
DUP 127239					15182								
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK						<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5
STD BLANK				<0.005									
STD BLANK				<0.005									
STD BLANK					<10								
STD OREAS 24b						<0.5	7.93	10	726	2.8	<2	1.05	<0.5
STD GBM908-10						2.8	7.60	51	1098	1.6	<2	3.76	1.6
STD OxA131				0.072									
STD CDN-GS-P4C				0.348									
STD OREAS 504					11283								

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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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 Report Version: Final

Sample ID	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
Prep Blank	<1	186	3	0.32	<10	0.23	<10	0.02	18	<1	0.01	4	20
Prep Blank	<1	220	3	0.34	<10	0.23	<10	0.02	23	1	0.01	6	25
127231	51	47	392	8.02	25	1.59	<10	2.85	883	20	3.32	20	972
127232	79	28	957	9.17	26	1.35	<10	2.67	1048	6	3.47	13	1156
127233	111	33	1101	10.38	28	1.53	<10	2.31	1084	<1	3.20	16	1088
127234	133	54	2202	11.30	28	1.20	<10	2.63	1998	3	2.62	21	1015
127235*	72	66	1729	10.49	28	2.19	<10	3.11	2573	27	2.36	27	1232
127236	61	63	7000	10.79	26	2.69	<10	2.64	3532	6	2.10	15	1077
127237	165	60	4828	10.89	29	1.03	<10	2.85	1956	10	3.21	21	863
127238	46	68	2450	7.63	27	0.91	<10	2.52	1030	<1	3.66	19	905
127239*	97	134	>10000	13.51	30	0.81	10	2.99	1156	5	2.74	40	636
127240	25	41	5578	5.59	19	1.91	<10	1.16	1437	549	1.63	26	666
127241	41	37	259	6.49	27	1.18	11	2.35	888	12	4.10	13	1384
127242	112	109	1838	12.59	30	0.97	<10	3.75	915	5	2.40	55	899
127243	39	163	763	9.43	27	1.04	<10	3.97	1337	<1	2.89	31	992
127244	45	26	246	6.84	23	0.87	<10	2.27	1553	11	3.86	8	1124
127245	63	32	298	6.76	23	0.85	<10	2.07	1008	9	4.26	8	1071
127246*	46	66	458	6.96	24	0.88	<10	2.90	1167	<1	3.40	25	1142
127247	29	104	163	7.26	29	1.07	<10	3.48	1209	<1	2.86	44	1142
127248	44	69	304	7.69	27	1.45	<10	2.87	1549	4	2.85	30	1157
127249	56	157	874	8.62	23	2.35	<10	3.79	2004	7	1.31	48	1728
127250*	75	124	557	8.51	25	2.44	<10	2.97	2107	4	1.33	42	1881
127251*	108	93	2212	9.32	25	2.06	<10	2.79	1829	14	2.61	37	1384
127252	59	122	234	9.45	27	0.86	<10	3.82	1335	<1	2.60	42	784
127253	46	134	331	9.28	28	1.10	<10	3.63	1312	<1	2.93	40	665

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**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127254*	107	35	236	6.20	22	0.93	<10	2.22	716	7	4.56	10	1084
127255*	71	149	490	10.46	28	1.80	<10	3.67	1329	2	2.33	37	651
127256	58	188	103	9.25	28	0.92	<10	4.62	1047	<1	2.44	76	1640
127257	139	92	512	8.17	22	2.41	<10	2.76	893	20	2.61	22	2455
127258	28	70	55	6.44	26	0.50	<10	2.15	1130	3	4.53	9	1503
127259	16	27	68	6.03	24	0.50	<10	2.12	1121	<1	4.67	7	1539
127260*	65	88	632	7.81	23	1.74	<10	3.18	1501	4	2.97	34	1082
127261*	119	73	693	9.11	28	1.22	<10	3.08	1614	15	3.03	42	1117
127262*	49	71	541	7.41	27	0.85	<10	2.67	1665	<1	3.51	30	1464
127263	56	187	327	8.52	27	2.13	<10	4.13	1414	7	2.17	68	1627
127264	59	193	514	9.88	29	2.31	<10	4.65	1745	<1	1.50	84	1646
127265*	29	60	311	6.72	25	1.00	<10	2.62	1261	<1	3.67	24	1691
127266*	24	28	1030	6.18	26	0.84	<10	1.91	1156	<1	4.22	9	1477
127267	127	43	873	9.92	32	1.31	22	2.73	1159	9	3.10	22	1267
127268*	73	34	2559	7.75	26	1.50	<10	2.57	1440	12	3.33	18	1296
127269*	133	45	2139	12.04	27	2.85	<10	1.50	1131	49	2.46	23	713
127270	62	34	9124	6.55	20	1.58	<10	1.20	1897	336	1.27	22	699
127271*	309	47	355	10.92	29	1.12	<10	2.27	747	61	3.29	22	1184
127272*	91	114	1039	8.95	25	1.39	<10	3.25	1038	3	2.81	30	910
127273	227	43	4661	13.36	29	0.64	<10	2.59	1176	20	2.72	23	1096
127274*	242	45	979	11.34	27	1.03	<10	2.67	1023	73	3.24	25	1242
127275	18	22	67	6.06	24	0.77	<10	1.88	982	2	4.13	8	1486
127276*	59	22	878	8.85	26	0.94	<10	2.31	788	6	3.66	11	1285
127277*	29	31	454	7.90	29	0.30	<10	2.60	713	16	3.97	8	1212
127278	21	36	167	7.46	26	0.73	<10	2.82	770	1	3.88	12	1225

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**CERTIFICATE OF ANALYSIS: YVR1710132**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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Sample ID	ICP-230 Co ppm 1	ICP-230 Cr ppm 1	ICP-230 Cu ppm 1	ICP-230 Fe % 0.01	ICP-230 Ga ppm 10	ICP-230 K % 0.01	ICP-230 La ppm 10	ICP-230 Mg % 0.01	ICP-230 Mn ppm 5	ICP-230 Mo ppm 1	ICP-230 Na % 0.01	ICP-230 Ni ppm 1	ICP-230 P ppm 10
127279	20	41	75	6.45	24	0.92	<10	2.54	1141	1	3.71	16	1362
127280*	58	150	447	8.08	26	1.23	<10	3.94	765	1	2.71	43	1373
127281*	32	118	355	8.20	28	1.20	<10	3.56	697	<1	2.90	33	1221
127282	28	44	593	9.47	27	0.40	<10	2.80	683	<1	4.07	13	1407
127283	201	111	2120	10.82	29	1.34	<10	3.04	656	23	3.06	59	1126
127284	187	108	1522	10.54	27	1.22	<10	2.95	643	21	2.99	56	1290
127285	135	76	789	8.12	24	1.06	<10	2.68	643	26	3.79	40	1428
127286*	115	60	1542	8.09	24	1.30	<10	2.47	670	51	3.60	39	1367
127287*	15	20	24	5.77	24	0.39	<10	1.82	941	<1	4.53	5	1546
127288*	33	24	241	9.23	28	0.16	<10	2.68	737	<1	4.26	9	1522
127289*	30	23	542	9.29	28	0.35	<10	2.78	633	<1	4.14	8	1540
127290*	28	27	196	8.84	28	0.42	<10	2.91	555	<1	4.04	7	1585
127291*	38	21	813	9.25	29	0.35	<10	2.84	623	<1	3.92	11	1533
127292*	22	20	512	9.53	28	0.30	<10	2.71	610	<1	4.03	8	1526
127293	32	28	1847	9.63	28	0.25	<10	2.44	559	<1	4.42	15	1480
127294*	69	91	1931	10.20	26	1.26	<10	2.91	470	45	3.12	34	930
127295*	117	103	1058	8.75	25	0.97	<10	3.15	544	9	3.41	47	1719
127296	39	152	273	8.99	24	0.97	<10	4.30	674	<1	2.90	46	987
127297	66	246	467	9.61	28	0.66	<10	5.87	838	11	2.37	69	1492
127298	80	144	4362	8.71	26	0.71	<10	3.49	595	19	3.33	43	2333
127299	274	68	>10000	16.10	31	1.40	<10	2.63	559	7	2.06	77	1845
127300	8	31	3071	2.95	19	2.21	<10	0.24	441	418	2.48	18	423
127301	59	108	647	7.78	27	0.73	<10	3.50	613	2	3.42	37	1966
127302*	44	117	593	9.33	28	0.84	<10	3.38	567	<1	3.14	38	1417
127303*	40	158	426	8.34	24	1.48	<10	3.49	756	<1	2.60	49	1049

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An A2 Global Company

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 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Terracad Geoscience Services Ltd.**  
**Suite 880-409 Granville St.**  
**Vancouver, BC**  
**V6C 1T2**

**CERTIFICATE OF ANALYSIS: YVR1710132**

Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

	ICP-230 Co ppm	ICP-230 Cr ppm	ICP-230 Cu ppm	ICP-230 Fe %	ICP-230 Ga ppm	ICP-230 K %	ICP-230 La ppm	ICP-230 Mg %	ICP-230 Mn ppm	ICP-230 Mo ppm	ICP-230 Na %	ICP-230 Ni ppm	ICP-230 P ppm
Sample ID	1	1	1	0.01	10	0.01	10	0.01	5	1	0.01	1	10
127231 PD	49	51	364	8.02	25	1.60	<10	2.82	875	18	3.36	18	968
127261 PD	118	72	691	9.10	26	1.23	<10	3.09	1621	17	3.04	45	1124
127291 PD	36	23	772	9.22	30	0.35	<10	2.83	620	<1	3.93	11	1531
DUP 127254	106	32	233	6.16	24	0.90	<10	2.16	705	8	4.51	8	1067
DUP 127301	59	107	656	7.76	26	0.72	<10	3.51	615	2	3.43	38	1968
DUP 127296													
DUP 127301													
DUP 127239													
STD BLANK	<1	<1	<1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK	<1	<1	1	<0.01	<10	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10
STD BLANK													
STD BLANK													
STD OREAS 24b	15	119	38	4.54	23	2.59	25	1.69	436	5	0.84	58	725
STD GBM908-10	25	139	3695	6.04	26	2.29	31	2.00	801	64	2.35	2170	1080
STD OxA131													
STD CDN-GS-P4C													
STD OREAS 504													

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
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 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
Prep Blank	<2	<0.01	<5	<2	5	<8	0.04	10	5	<10	<2	9
Prep Blank	<2	<0.01	<5	<2	6	<8	0.04	<10	5	<10	<2	9
127231	10	1.74	<5	26	432	<8	0.48	<10	264	<10	44	32
127232	8	3.25	<5	24	396	<8	0.48	12	263	<10	52	33
127233	11	4.83	6	21	391	<8	0.46	<10	253	<10	73	33
127234	19	3.45	<5	24	305	<8	0.42	<10	238	<10	143	31
127235*	12	2.29	<5	30	363	<8	0.48	<10	259	<10	135	33
127236	15	2.63	10	27	397	<8	0.45	14	268	<10	204	39
127237	19	3.28	10	28	378	<8	0.44	<10	250	<10	242	30
127238	14	1.79	<5	22	406	<8	0.44	<10	203	<10	152	29
127239*	14	4.87	9	27	292	<8	0.46	<10	224	<10	242	30
127240	17	0.56	12	9	463	<8	0.20	12	86	<10	83	27
127241	7	0.91	<5	22	545	<8	0.51	<10	228	<10	36	23
127242	9	3.56	<5	36	288	<8	0.48	<10	303	<10	61	30
127243	9	0.95	<5	34	349	<8	0.46	<10	260	<10	78	35
127244	15	1.19	<5	27	284	<8	0.45	12	243	<10	107	44
127245	10	1.93	8	19	404	<8	0.40	<10	207	<10	156	59
127246*	7	0.95	7	28	404	<8	0.49	<10	253	<10	88	34
127247	4	0.27	<5	27	429	<8	0.49	<10	244	<10	51	28
127248	14	0.49	<5	22	422	<8	0.49	13	237	<10	66	25
127249	11	0.49	<5	30	441	<8	0.53	<10	209	<10	76	35
127250*	16	0.68	7	28	355	<8	0.54	<10	227	<10	69	32
127251*	14	1.57	6	23	338	<8	0.45	<10	193	<10	348	32
127252	10	0.43	<5	32	320	<8	0.43	<10	249	<10	55	22
127253	9	0.47	<5	29	458	<8	0.43	<10	232	<10	50	31

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<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127254*	16	2.97	<5	23	500	<8	0.40	<10	203	12	67	65
127255*	11	0.76	<5	33	354	<8	0.46	<10	233	11	51	28
127256	4	0.34	7	32	396	<8	0.43	13	278	<10	40	37
127257	11	0.92	<5	21	380	<8	0.38	<10	191	<10	48	33
127258	8	0.19	<5	18	238	<8	0.45	<10	136	<10	81	48
127259	7	0.12	<5	16	281	<8	0.45	<10	127	<10	83	48
127260*	12	0.53	<5	24	397	<8	0.42	<10	223	<10	101	43
127261*	13	1.44	9	23	384	<8	0.46	<10	229	<10	221	20
127262*	10	0.33	<5	18	382	<8	0.45	<10	229	<10	109	22
127263	11	0.40	8	29	329	<8	0.43	<10	250	<10	72	35
127264	14	0.43	<5	30	305	<8	0.43	16	273	<10	101	34
127265*	6	0.19	<5	19	434	<8	0.47	<10	202	<10	74	37
127266*	13	0.26	5	16	375	<8	0.45	<10	138	12	94	45
127267	12	1.20	<5	17	470	<8	0.47	20	249	<10	58	22
127268*	18	0.89	<5	17	509	<8	0.43	<10	201	<10	255	31
127269*	18	1.62	7	10	540	<8	0.41	<10	199	<10	113	24
127270	103	1.64	26	8	393	<8	0.17	<10	79	18	1389	30
127271*	9	2.26	8	18	464	<8	0.44	<10	218	<10	41	27
127272*	13	0.85	9	27	431	<8	0.46	<10	226	<10	55	22
127273	13	2.13	<5	23	404	<8	0.42	14	232	<10	85	35
127274*	10	2.28	<5	24	453	<8	0.41	<10	238	<10	65	38
127275	14	0.14	<5	15	493	<8	0.44	<10	128	<10	94	47
127276*	8	0.75	<5	21	543	<8	0.42	<10	219	<10	62	43
127277*	10	0.41	<5	25	415	<8	0.43	10	278	<10	37	44
127278	14	0.21	<5	30	535	<8	0.46	<10	252	<10	46	47

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**Vancouver, BC**  
**V6C 1T2**

<b>CERTIFICATE OF ANALYSIS:</b>	<b>YVR1710132</b>
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Project Name: Hat  
 Job Received Date: 23-Dec-2016  
 Job Report Date: 25-Jan-2017  
 Report Version: Final

Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
	2	0.01	5	2	1	8	0.01	10	1	10	2	5
127279	7	0.16	<5	21	407	<8	0.48	<10	161	<10	74	44
127280*	12	0.76	<5	29	495	<8	0.46	<10	238	<10	41	34
127281*	11	0.38	6	27	473	<8	0.47	10	242	<10	35	27
127282	11	0.39	<5	27	464	<8	0.43	11	295	<10	35	44
127283	9	3.19	7	26	392	<8	0.43	<10	229	<10	41	32
127284	10	2.94	<5	25	384	<8	0.44	<10	226	<10	39	32
127285	11	2.07	<5	21	462	<8	0.46	<10	219	<10	36	31
127286*	7	1.90	<5	20	478	<8	0.43	<10	211	<10	43	30
127287*	15	0.06	<5	16	687	<8	0.44	<10	125	<10	83	50
127288*	12	0.26	<5	28	468	<8	0.43	12	308	<10	32	43
127289*	8	0.26	<5	29	489	<8	0.43	13	306	<10	39	43
127290*	12	0.19	<5	29	523	<8	0.44	<10	310	<10	30	44
127291*	8	0.42	<5	27	483	<8	0.43	<10	298	<10	35	44
127292*	9	0.19	<5	28	385	<8	0.43	<10	298	<10	33	47
127293	12	0.62	10	24	359	<8	0.41	<10	278	<10	40	46
127294*	12	1.46	6	23	388	<8	0.40	18	228	<10	31	26
127295*	11	1.95	<5	26	437	<8	0.49	11	252	<10	29	27
127296	10	0.38	<5	36	472	<8	0.46	14	264	<10	36	32
127297	9	0.70	5	36	311	<8	0.42	<10	248	<10	47	34
127298	7	1.55	<5	28	426	<8	0.55	10	277	<10	36	26
127299	11	6.76	<5	19	378	<8	0.43	17	203	<10	57	19
127300	65	1.04	92	<2	615	<8	0.12	<10	40	<10	62	12
127301	10	0.78	<5	27	592	<8	0.55	12	285	<10	32	31
127302*	9	0.56	<5	27	521	<8	0.51	<10	265	<10	31	26
127303*	11	0.37	<5	30	554	<8	0.52	10	278	<10	45	30

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Sample ID	ICP-230 Pb ppm	ICP-230 S %	ICP-230 Sb ppm	ICP-230 Sc ppm	ICP-230 Sr ppm	ICP-230 Th ppm	ICP-230 Ti %	ICP-230 Tl ppm	ICP-230 V ppm	ICP-230 W ppm	ICP-230 Zn ppm	ICP-230 Zr ppm
127231 PD	6	1.73	8	26	437	<8	0.49	19	265	<10	42	33
127261 PD	17	1.42	7	23	386	<8	0.46	<10	229	<10	233	20
127291 PD	13	0.38	<5	27	486	<8	0.43	<10	294	<10	36	45
DUP 127254	11	2.94	<5	22	499	<8	0.40	<10	200	<10	64	63
DUP 127301	8	0.77	<5	27	591	<8	0.55	<10	288	<10	33	31
DUP 127296												
DUP 127301												
DUP 127239												
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK	<2	<0.01	<5	<2	<1	<8	<0.01	<10	<1	<10	<2	<5
STD BLANK												
STD BLANK												
STD BLANK												
STD OREAS 24b	28	0.19	7	16	130	17	0.48	<10	110	<10	109	139
STD GBM908-10	1881	0.38	<5	19	315	15	0.70	<10	146	<10	1057	150
STD OxA131												
STD CDN-GS-P4C												
STD OREAS 504												

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## APPENDIX 2 – CORE SAMPLE INTERVALS WITH ANALYSIS

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H026	127001	4.57	7.62	3.05	YVR1610195	0.047	0.7	466
H026	127002	7.62	10.62	3	YVR1610195	0.085	0.6	622
H026	127003	10.62	13.62	3	YVR1610195	0.555	11.6	10629
H026	127004	13.62	15.96	2.34	YVR1610195	0.144	0.7	898
H026	127005	15.96	16.66	0.7	YVR1610195	0.036	<0.5	253
H026	127006	16.66	19.66	3	YVR1610195	0.158	1.4	1585
H026	127007	19.66	22.06	2.4	YVR1610195	0.353	0.9	3704
H026	127008	22.06	23.58	1.52	YVR1610195	1.092	0.9	6731
H026	127009	23.58	24.8	1.22	YVR1610195	1.24	1.2	8129
H026	127010	24.8	27.8	3	YVR1610195	0.472	1.3	3015
H026	127011	27.8	30.8	3	YVR1610195	0.138	<0.5	1055
H026	127012	30.8	33.8	3	YVR1610195	0.052	0.8	697
H026	127013	33.8	36.8	3	YVR1610195	0.012	<0.5	191
H026	127014	36.8	39.8	3	YVR1610195	0.011	<0.5	133
H026	127015	39.8	42.15	2.35	YVR1610195	0.04	<0.5	317
H026	127016	42.15	44.2	2.05	YVR1610195	0.01	<0.5	461
H026	127017	44.2	47.2	3	YVR1610195	0.06	0.8	829
H026	127018	47.2	49.44	2.24	YVR1610195	0.233	2.3	2847
H026	127019	49.44	51.44	2	YVR1610195	0.07	1.9	2345
H026	127020	51.44	54.44	3	YVR1610195	0.016	<0.5	584
H026	127021	Duplicate			YVR1610195	0.017	<0.5	221
H026	127022	54.44	57.44	3	YVR1610195	0.055	1.2	1708
H026	127023	57.44	60.44	3	YVR1610195	0.064	0.7	944
H026	127024	60.44	63.44	3	YVR1610195	0.038	<0.5	547
H026	127025	63.44	66.18	2.74	YVR1610195	0.038	<0.5	785
H026	127026	66.18	67.68	1.5	YVR1610195	0.063	<0.5	700
H026	127027	67.68	69.7	2.02	YVR1610195	0.055	<0.5	517
H026	127028	69.7	72.13	2.43	YVR1610195	0.008	<0.5	131
H026	127029	72.13	74.08	1.95	YVR1610195	0.008	<0.5	181
H026	127030	Cu189-Std			YVR1610195	0.833	12.5	8869
H026	127031	74.08	75.52	1.44	YVR1610195	0.476	26.7	23495
H026	127032	75.52	78.52	3	YVR1610195	0.011	0.5	580
H026	127033	78.52	81.11	2.59	YVR1610195	0.011	<0.5	159
H026	127034	81.11	83.14	2.03	YVR1610195	0.025	0.5	325
H026	127035	83.14	85.64	2.5	YVR1610195	0.02	<0.5	216
H026	127036	85.64	86.14	0.5	YVR1610195	0.009	<0.5	149
H026	127037	86.14	88.62	2.48	YVR1610195	0.005	<0.5	104
H026	127038	88.62	91.52	2.9	YVR1610195	0.093	0.5	764
H026	127039	91.52	94.52	3	YVR1610195	0.008	<0.5	591
H026	127040	blank			YVR1610195	0.008	<0.5	22
H026	127041	94.52	96.88	2.36	YVR1610195	0.023	0.6	1238
H026	127042	96.88	99.56	2.68	YVR1610195	0.037	0.6	739

Hole	Sample	From	To	Int. (m)	Cert No	Au ppm	Ag ppm	Cu ppm
H026	127043	99.56	102.56	3	YVR1610195	0.039	0.9	1450
H026	127044	102.56	104	1.44	YVR1610195	0.013	<0.5	666
H026	127045	104	106.26	2.26	YVR1610183	0.063	1	1877
H026	127046	106.26	108.26	2	YVR1610183	0.067	0.8	1469
H026	127047	108.26	110.65	2.39	YVR1610183	0.01	<0.5	423
H026	127048	110.65	112.2	1.55	YVR1610183	0.172	1.3	2544
H026	127049	112.2	113.7	1.5	YVR1610183	0.193	1.3	1290
H026	127050	113.7	116	2.3	YVR1610183	0.255	1.2	2207
H026	127051	116	117.15	1.15	YVR1610183	0.029	<0.5	502
H026	127052	117.15	118.65	1.5	YVR1610183	0.031	<0.5	570
H026	127053	118.65	120.7	2.05	YVR1610183	0.046	<0.5	894
H026	127054	120.7	123.69	2.99	YVR1610183	0.027	<0.5	361
H026	127055	123.69	126.69	3	YVR1610183	0.072	<0.5	391
H026	127056	126.69	129	2.31	YVR1610183	0.052	<0.5	1148
H026	127057	129	131	2	YVR1610183	0.022	<0.5	189
H026	127058	131	134	3	YVR1610183	0.048	<0.5	514
H026	127059	134	136	2	YVR1610183	0.036	<0.5	428
H026	127060	Cu165-Std			YVR1610183	1.583	32.3	3234
H026	127061	136	138.28	2.28	YVR1610183	0.025	<0.5	348
H026	127062	138.28	141.28	3	YVR1610183	0.026	<0.5	133
H026	127063	141.28	144.28	3	YVR1610183	0.009	<0.5	112
H026	127064	144.28	147.28	3	YVR1610183	0.009	<0.5	114
H026	127065	147.28	150.28	3	YVR1610183	0.057	<0.5	874
H026	127066	150.28	153.28	3	YVR1610183	0.057	<0.5	463
H026	127067	153.28	156.28	3	YVR1610183	0.049	<0.5	499
H026	127068	156.28	157.87	1.59	YVR1610183	0.083	<0.5	123
H026	127069	157.87	158.97	1.1	YVR1610183	0.039	<0.5	460
H026	127070	158.97	160.38	1.41	YVR1610183	0.011	<0.5	80
H026	127071	160.38	162.38	2	YVR1610183	0.009	<0.5	120
H026	127072	Duplicate			YVR1610183	0.026	0.5	335
H026	127073	162.38	165.05	2.67	YVR1610183	0.015	<0.5	245
H026	127074	165.05	168.05	3	YVR1610183	0.007	<0.5	49
H026	127075	168.05	171.05	3	YVR1610183	0.007	<0.5	27
H026	127076	171.05	174	2.95	YVR1610183	0.021	<0.5	125
H026	127077	174	177	3	YVR1610183	0.011	<0.5	215
H026	127078	177	179	2	YVR1610183	0.009	<0.5	14
H026	127079	179	181.36	2.36	YVR1610183	0.011	<0.5	115
H026	127080	181.36	184.36	3	YVR1610183	0.093	<0.5	1115
H026	127081	184.36	187.36	3	YVR1610183	0.068	<0.5	756
H026	127082	187.36	189.8	2.44	YVR1610183	0.04	<0.5	551
H026	127083	189.8	190.9	1.1	YVR1610183	0.706	1.7	10201
H026	127084	190.9	193.55	2.65	YVR1610183	1.673	1.2	3984
H026	127085	193.55	196.55	3	YVR1610183	0.074	<0.5	765
H026	127086	196.55	199.55	3	YVR1610183	0.159	<0.5	1942
H026	127087	199.55	202.55	3	YVR1610183	0.564	<0.5	2934
H026	127088	202.55	203.59	1.04	YVR1610183	0.126	<0.5	524
H026	127089	203.59	206.59	3	YVR1610183	0.096	<0.5	757

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H026	127090	Blank			YVR1610183	0.014	<0.5	9
H026	127091	206.59	209.59	3	YVR1610183	0.068	<0.5	434
H026	127092	209.59	212.59	3	YVR1610183	0.065	<0.5	755
H026	127093	212.59	214.88	2.29	YVR1610183	0.088	<0.5	1002
H026	127094	214.88	217.88	3	YVR1610183	0.028	<0.5	363
H026	127095	217.88	220.88	3	YVR1610183	0.052	<0.5	550
H026	127096	220.88	223.88	3	YVR1610183	0.05	<0.5	607
H026	127097	223.88	226.88	3	YVR1610183	0.268	0.5	3186
H026	127098	226.88	229.88	3	YVR1610183	0.051	<0.5	541
H026	127099	229.88	232.88	3	YVR1610183	0.064	<0.5	656
H026	127100	232.88	235.88	3	YVR1610183	0.223	<0.5	783
H026	127101	235.88	238.88	3	YVR1610183	0.037	<0.5	626
H026	127102	238.88	241.88	3	YVR1610183	0.077	<0.5	696
H026	127103	241.88	244.88	3	YVR1610183	0.069	<0.5	400
H026	127104	244.88	247.88	3	YVR1610183	0.056	<0.5	789
H026	127105	247.88	250.88	3	YVR1610183	0.083	<0.5	704
H026	127106	250.88	252.86	1.98	YVR1610183	0.198	<0.5	1793
H026	127107	252.86	254.94	2.08	YVR1610183	0.4	0.7	7123
H026	127108	254.94	257.56	2.62	YVR1610183	0.101	<0.5	1690
H026	127109	257.56	259.56	2	YVR1610183	0.039	<0.5	729
H026	127110	259.56	260.9	1.34	YVR1610183	0.232	0.5	5296
H026	127111	260.9	263.27	2.37	YVR1610183	1.112	1.5	22520
H026	127112	263.27	264.42	1.15	YVR1610183	0.487	0.8	10634
H026	127113	264.42	266.5	2.08	YVR1610183	0.159	<0.5	3279
H026	127114	266.5	269.5	3	YVR1610183	0.478	0.9	9312
H026	127115	269.5	271.45	1.95	YVR1610183	0.211	0.6	3996
H026	127116	271.45	274.45	3	YVR1610183	0.053	<0.5	654
H026	127117	274.45	277.45	3	YVR1610183	0.069	<0.5	476
H026	127118	277.45	280.45	3	YVR1610183	0.04	<0.5	400
H026	127119	280.45	283.45	3	YVR1610183	0.086	<0.5	608
H026	127120	Cu193-Std			YVR1610183	0.5	3.7	5669
H026	127121	283.45	286	2.55	YVR1610183	0.168	<0.5	1162
H026	127122	286	287	1	YVR1610183	1.487	1.1	5057
H026	127123	287	290	3	YVR1610183	0.084	<0.5	1398
H026	127124	290	293	3	YVR1610183	0.169	<0.5	1195
H026	127125	293	296	3	YVR1610183	0.054	<0.5	603
H026	127126	296	299	3	YVR1610183	0.04	<0.5	290
H026	127127	299	302	3	YVR1610183	0.048	<0.5	228
H026	127128	Duplicate			YVR1610183	0.035	<0.5	105
H026	127129	302	305	3	YVR1610183	0.032	<0.5	552
H026	127130	305	306.5	1.5	YVR1610183	0.169	0.6	2344
H026	127131	306.5	308.37	1.87	YVR1610183	1.431	1.3	25159
H026	127132	308.37	310.47	2.1	YVR1610183	0.367	<0.5	3206
H026	127133	310.47	313.47	3	YVR1610183	0.039	<0.5	466
H026	127134	313.47	316.47	3	YVR1610183	0.163	<0.5	284
H026	127135	316.47	319.47	3	YVR1610183	0.083	<0.5	336
H026	127136	319.47	322.47	3	YVR1610183	0.018	<0.5	105

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H026	127137	322.47	325.47	3	YVR1610183	0.023	<0.5	189
H026	127138	325.47	328.47	3	YVR1610183	0.013	<0.5	73
H026	127139	328.47	331.47	3	YVR1610183	0.061	<0.5	970
H026	127140	331.47	334.47	3	YVR1610183	0.011	<0.5	74
H026	127141	334.47	337.47	3	YVR1610183	0.028	<0.5	204
H026	127142	337.47	339.4	1.93	YVR1610183	0.077	<0.5	760
H026	127143	339.4	342.4	3	YVR1610183	0.32	<0.5	3336
H026	127144	342.4	345.4	3	YVR1610183	0.332	<0.5	1556
H026	127145	345.4	347.4	2	YVR1610183	1.15	0.5	3116
H026	127146	347.4	349.77	2.37	YVR1610183	0.19	0.5	1540
H026	127147	349.77	352.77	3	YVR1610183	0.079	<0.5	826
H026	127148	352.77	355.77	3	YVR1610183	0.065	<0.5	634
H026	127149	355.77	358.77	3	YVR1610183	0.091	<0.5	365
H026	127150	Cu187-Std			YVR1610183	0.569	12.1	3756
H026	127151	358.77	361.77	3	YVR1610183	0.274	0.6	1696
H026	127152	361.77	364.77	3	YVR1610183	0.029	<0.5	162
H026	127153	364.77	367.77	3	YVR1610183	0.014	<0.5	124
H026	127154	367.77	370.77	3	YVR1610183	0.031	<0.5	235
H026	127155	370.77	372.77	2	YVR1610183	0.055	<0.5	594
H026	127156	372.77	374.06	1.29	YVR1610183	0.049	<0.5	593
H026	127157	374.06	377.06	3	YVR1610183	0.088	<0.5	886
H026	127158	377.06	380.06	3	YVR1610183	0.12	<0.5	1465
H026	127159	380.06	383.06	3	YVR1610183	0.21	<0.5	2550
H026	127160	383.06	386.2	3.14	YVR1610183	0.671	<0.5	3937
H026	127161	386.2	389.2	3	YVR1610183	0.07	<0.5	1141
H026	127162	389.2	392.2	3	YVR1610183	0.109	<0.5	1655
H026	127163	392.2	395.2	3	YVR1610183	0.353	<0.5	1911
H026	127164	395.2	398.2	3	YVR1610183	0.241	<0.5	2055
H026	127165	398.2	401.2	3	YVR1610183	0.181	0.7	4141
H026	127166	401.2	404.2	3	YVR1610183	0.055	<0.5	1264
H026	127167	404.2	407.2	3	YVR1610183	0.049	<0.5	802
H026	127168	407.2	410.2	3	YVR1610183	0.053	<0.5	1256
H026	127169	410.2	413.2	3	YVR1610183	0.048	<0.5	1441
H026	127170	413.2	416.2	3	YVR1610183	0.155	<0.5	2516
H026	127171	416.2	418.35	2.15	YVR1610183	0.073	<0.5	1213
H026	127172	418.35	421.35	3	YVR1610279	0.018	<0.5	837
H026	127173	421.35	424.35	3	YVR1610279	0.04	0.5	837
H026	127174	424.35	427.35	3	YVR1610279	0.011	0.6	1655
H026	127175	427.35	430.35	3	YVR1610279	0.047	0.7	1112
H026	127176	430.35	433.35	3	YVR1610279	0.061	0.5	1798
H026	127177	433.35	436.35	3	YVR1610279	0.029	0.8	2124
H026	127178	436.35	439.35	3	YVR1610279	0.033	1.1	3784
H026	127179	439.35	442.35	3	YVR1610279	0.159	0.7	2836
H026	127180	Blank			YVR1610279	<0.005	<0.5	16
H026	127181	442.35	444.78	2.43	YVR1610279	0.103	0.6	1837
H026	127182	444.78	447.78	3	YVR1610279	0.182	0.8	3595
H026	127183	447.78	450.78	3	YVR1610279	0.065	0.6	1245

Hole	Sample	From	To	Int. (m)	Cert No	Au ppm	Ag ppm	Cu ppm
H026	127184	450.78	452.78	2	YVR1610279	0.151	0.7	3133
H026	127185	452.78	454.86	2.08	YVR1610279	0.096	0.6	2885
H026	127186	454.86	457.4	2.54	YVR1610279	0.489	1.9	9797
H026	127187	457.4	460.4	3	YVR1610279	0.234	2.1	9301
H026	127188	460.4	461.67	1.27	YVR1610279	0.051	<0.5	2295
H026	127189	461.67	464.67	3	YVR1610279	0.059	0.6	1480
H026	127190	464.67	467.67	3	YVR1610279	0.023	<0.5	443
H026	127191	467.67	470.67	3	YVR1610279	0.021	<0.5	231
H026	127192	470.67	473.67	3	YVR1610279	0.162	0.8	1347
H026	127193	473.67	476.67	3	YVR1610279	0.086	0.7	2697
H026	127194	476.67	479.67	3	YVR1610279	0.057	<0.5	1866
H026	127195	479.67	482.48	2.81	YVR1610279	0.026	<0.5	758
H026	127196	482.48	485.48	3	YVR1610279	0.175	1.4	8028
H026	127197	485.48	487.8	2.32	YVR1610279	0.275	1.3	7215
H026	127198	487.8	490.8	3	YVR1610279	0.054	0.8	2583
H026	127199	490.8	493.8	3	YVR1610279	0.035	0.5	1191
H026	127200	493.8	496.8	3	YVR1610279	0.128	0.8	3678
H026	127201	496.8	499.8	3	YVR1610279	0.148	<0.5	2345
H026	127202	499.8	502.8	3	YVR1610279	0.073	<0.5	1245
H026	127203	502.8	505.8	3	YVR1610279	0.032	<0.5	629
H026	127204	505.8	508.8	3	YVR1610279	0.214	0.6	3052
H026	127205	508.8	511.8	3	YVR1610279	0.308	1.1	7658
H026	127206	511.8	514.8	3	YVR1610279	0.029	<0.5	579
H026	127207	514.8	516.8	2	YVR1610279	0.054	<0.5	1393
H026	127208	516.8	518.64	1.84	YVR1610279	0.04	<0.5	1295
H026	127209	518.64	520.14	1.5	YVR1610279	0.712	1.8	12280
H026	127210	Cu187-Std			YVR1610279	0.516	11.8	3865
H026	127211	520.14	522.03	1.89	YVR1610279	0.547	<0.5	8752
H026	127212	522.03	525.03	3	YVR1610279	0.015	<0.5	308
H026	127213	525.03	528.03	3	YVR1610279	0.005	<0.5	136
H026	127214	528.03	530.03	2	YVR1610279	0.006	<0.5	396
H026	127215	530.03	531.38	1.35	YVR1610279	0.007	<0.5	233
H026	127216	531.38	534.38	3	YVR1610279	<0.005	<0.5	95
H026	127217	534.38	536.94	2.56	YVR1610279	<0.005	<0.5	416
H026	127218	536.94	539.94	3	YVR1610279	0.025	<0.5	549
H026	127219	539.94	542.94	3	YVR1610279	0.022	0.5	292
H026	127220	542.94	545.94	3	YVR1610279	0.013	<0.5	263
H026	127221	545.94	548.94	3	YVR1610279	0.021	<0.5	379
H026	127222	548.94	551.94	3	YVR1610279	0.009	<0.5	198
H026	127223	Duplicate			YVR1610279	0.01	<0.5	189
H026	127224	551.94	554.94	3	YVR1610279	0.009	<0.5	150
H026	127225	554.94	556.96	2.02	YVR1610279	<0.005	<0.5	85
H026	127226	556.96	558.46	1.5	YVR1610279	0.018	<0.5	373
H026	127227	558.46	560.66	2.2	YVR1610279	0.006	<0.5	31
H026	127228	560.66	563.66	3	YVR1610279	<0.005	<0.5	14
H026	127229	563.66	566.66	3	YVR1610279	0.009	<0.5	116
H026	127230	566.66	568.45	1.79	YVR1610279	<0.005	<0.5	52

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H027	127231	4.57	7.57	3	YVR1710132	0.059	<0.5	392
H027	127232	7.57	10.57	3	YVR1710132	0.547	1.1	957
H027	127233	10.57	13.57	3	YVR1710132	0.11	0.8	1101
H027	127234	13.57	16.57	3	YVR1710132	0.292	2.2	2202
H027	127235	16.57	19.57	3	YVR1710132	0.242	0.9	1729
H027	127236	19.57	22.57	3	YVR1710132	0.926	3.1	7000
H027	127237	22.57	25.57	3	YVR1710132	0.685	3.3	4828
H027	127238	25.57	27.9	2.33	YVR1710132	0.347	0.7	2450
H027	127239	27.9	30	2.1	YVR1710132	2.327	3.9	14894
H027	127240	Cu193-Std			YVR1710132	0.489	3.6	5578
H027	127241	30	30.56	0.56	YVR1710132	0.107	<0.5	259
H027	127242	30.56	33.56	3	YVR1710132	0.282	0.9	1838
H027	127243	33.56	36.56	3	YVR1710132	0.094	<0.5	763
H027	127244	36.56	39.56	3	YVR1710132	0.009	0.6	246
H027	127245	39.56	42.56	3	YVR1710132	0.021	<0.5	298
H027	127246	42.56	45.56	3	YVR1710132	0.028	<0.5	458
H027	127247	45.56	48.56	3	YVR1710132	0.017	<0.5	163
H027	127248	48.56	51.56	3	YVR1710132	0.019	<0.5	304
H027	127249	51.56	54.56	3	YVR1710132	0.018	0.5	874
H027	127250	54.56	57.56	3	YVR1710132	<0.005	0.5	557
H027	127251	57.56	60.56	3	YVR1710132	0.026	2.4	2212
H027	127252	60.56	63.53	2.97	YVR1710132	0.017	<0.5	234
H027	127253	63.53	65.47	1.94	YVR1710132	0.014	<0.5	331
H027	127254	65.47	67.03	1.56	YVR1710132	0.009	<0.5	236
H027	127255	67.03	70.03	3	YVR1710132	0.036	<0.5	490
H027	127256	70.03	72	1.97	YVR1710132	0.011	<0.5	103
H027	127257	72	73.73	1.73	YVR1710132	0.024	0.5	512
H027	127258	73.73	76	2.27	YVR1710132	0.008	<0.5	55
H027	127259	76	78.22	2.22	YVR1710132	<0.005	0.6	68
H027	127260	78.22	81.22	3	YVR1710132	0.023	<0.5	632
H027	127261	81.22	84.22	3	YVR1710132	0.017	<0.5	693
H027	127262	84.22	87.22	3	YVR1710132	0.006	<0.5	541
H027	127263	87.22	89.22	2	YVR1710132	<0.005	<0.5	327
H027	127264	89.22	91.22	2	YVR1710132	0.034	<0.5	514
H027	127265	91.22	94.22	3	YVR1710132	0.008	<0.5	311
H027	127266	94.22	97.08	2.86	YVR1710132	<0.005	<0.5	1030
H027	127267	97.08	100.08	3	YVR1710132	0.049	<0.5	873
H027	127268	100.08	103.08	3	YVR1710132	0.188	1.7	2559
H027	127269	103.08	106.08	3	YVR1710132	0.117	0.9	2139
H027	127270	Cu189-Std			YVR1710132	0.853	13.2	9124
H027	127271	106.08	109.08	3	YVR1710132	0.05	<0.5	355
H027	127272	109.08	112.08	3	YVR1710132	0.05	<0.5	1039
H027	127273	112.08	114.08	2	YVR1710132	0.39	1.7	4661
H027	127274	114.08	115.9	1.82	YVR1710132	0.078	<0.5	979
H027	127275	115.9	117.2	1.3	YVR1710132	<0.005	<0.5	67
H027	127276	117.2	119.61	2.41	YVR1710132	0.045	<0.5	878
H027	127277	119.61	121.5	1.89	YVR1710132	0.008	<0.5	454

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H027	127278	121.5	124.5	3	YVR1710132	<0.005	<0.5	167
H027	127279	124.5	127.39	2.89	YVR1710132	0.012	<0.5	75
H027	127280	127.39	130.39	3	YVR1710132	0.042	<0.5	447
H027	127281	130.39	133.39	3	YVR1710132	0.025	<0.5	355
H027	127282	133.39	135.24	1.85	YVR1710132	0.022	<0.5	593
H027	127283	135.24	138.24	3	YVR1710132	0.146	0.6	2120
H027	127284	Duplicate			YVR1710132	0.171	0.6	1522
H027	127285	138.24	141.24	3	YVR1710132	0.045	<0.5	789
H027	127286	141.24	144.93	3.69	YVR1710132	0.127	0.6	1542
H027	127287	144.93	147.4	2.47	YVR1710132	<0.005	<0.5	24
H027	127288	147.4	150.4	3	YVR1710132	0.015	<0.5	241
H027	127289	150.4	153.4	3	YVR1710132	0.036	<0.5	542
H027	127290	153.4	156.4	3	YVR1710132	0.006	<0.5	196
H027	127291	156.4	159.4	3	YVR1710132	0.092	<0.5	813
H027	127292	159.4	162.4	3	YVR1710132	0.033	<0.5	512
H027	127293	162.4	164.02	1.62	YVR1710132	0.125	0.7	1847
H027	127294	164.02	167.02	3	YVR1710132	0.146	<0.5	1931
H027	127295	167.02	170.02	3	YVR1710132	0.083	<0.5	1058
H027	127296	170.02	173.02	3	YVR1710132	0.025	<0.5	273
H027	127297	173.02	175.02	2	YVR1710132	0.032	<0.5	467
H027	127298	175.02	177.21	2.19	YVR1710132	0.41	<0.5	4362
H027	127299	177.21	178.9	1.69	YVR1710132	2.621	2.7	23719
H027	127300	Cu165-Std			YVR1710132	1.457	32.2	3071
H027	127301	178.9	181.9	3	YVR1710132	0.062	<0.5	647
H027	127302	181.9	184.9	3	YVR1710132	0.044	<0.5	593
H027	127303	184.9	187.9	3	YVR1710132	0.031	<0.5	426
H027	127304	187.9	190.9	3	YVR1710131	0.04	<0.5	601
H027	127305	190.9	193.9	3	YVR1710131	0.258	<0.5	1950
H027	127306	193.9	196.9	3	YVR1710131	0.061	<0.5	615
H027	127307	196.9	198.9	2	YVR1710131	0.033	<0.5	315
H027	127308	198.9	201.66	2.76	YVR1710131	0.01	<0.5	56
H027	127309	201.66	203	1.34	YVR1710131	0.072	<0.5	977
H027	127310	203	206	3	YVR1710131	0.877	1.1	9901
H027	127311	206	209	3	YVR1710131	0.261	<0.5	2676
H027	127312	209	212	3	YVR1710131	0.267	<0.5	2678
H027	127313	212	214	2	YVR1710131	0.193	<0.5	2312
H027	127314	214	215.58	1.58	YVR1710131	0.408	0.6	4743
H027	127315	215.58	218.58	3	YVR1710131	0.482	0.8	5389
H027	127316	218.58	221.58	3	YVR1710131	0.66	0.5	6347
H027	127317	221.58	224.33	2.75	YVR1710131	1.344	1.1	14063
H027	127318	224.33	227.33	3	YVR1710131	1.292	0.9	12842
H027	127319	227.33	228.32	0.99	YVR1710131	3.115	2.6	30821
H027	127320	228.32	231.32	3	YVR1710131	0.802	0.9	7623
H027	127321	231.32	234.32	3	YVR1710131	1.299	1.2	14837
H027	127322	234.32	237.32	3	YVR1710131	0.18	<0.5	2144
H027	127323	237.32	240.32	3	YVR1710131	0.413	<0.5	3763
H027	127324	240.32	242.02	1.7	YVR1710131	0.351	<0.5	4472

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H027	127325	242.02	245.02	3	YVR1710131	0.1	<0.5	1577
H027	127326	245.02	248.02	3	YVR1710131	0.364	<0.5	3736
H027	127327	248.02	251.02	3	YVR1710131	0.1	<0.5	1198
H027	127328	251.02	253.02	2	YVR1710131	0.232	<0.5	3793
H027	127329	253.02	254.81	1.79	YVR1710131	0.487	0.6	4461
H027	127330	Cu193-Std			YVR1710131	0.483	3.3	5412
H027	127331	254.81	257.81	3	YVR1710131	0.423	<0.5	3577
H027	127332	257.81	260.81	3	YVR1710131	0.224	<0.5	2316
H027	127333	260.81	263.81	3	YVR1710131	0.406	<0.5	2792
H027	127334	263.81	266.81	3	YVR1710131	0.186	<0.5	2078
H027	127335	266.81	269.7	2.89	YVR1710131	0.122	0.6	1980
H027	127336	269.7	272.7	3	YVR1710131	0.107	<0.5	1963
H027	127337	272.7	275.7	3	YVR1710131	0.019	<0.5	517
H027	127338	275.7	278.7	3	YVR1710131	0.208	0.5	3575
H027	127339	278.7	280.7	2	YVR1710131	0.027	<0.5	975
H027	127340	280.7	283.7	3	YVR1710131	0.071	<0.5	1376
H027	127341	283.7	286.34	2.64	YVR1710131	0.037	<0.5	629
H027	127342	286.34	289.34	3	YVR1710131	0.139	<0.5	2101
H027	127343	289.34	292.34	3	YVR1710131	0.23	<0.5	4084
H027	127344	292.34	295.1	2.76	YVR1710131	0.102	<0.5	1820
H027	127345	295.1	298.1	3	YVR1710131	0.135	<0.5	1747
H027	127346	298.1	300.53	2.43	YVR1710131	0.023	<0.5	435
H027	127347	300.53	302.53	2	YVR1710131	0.117	<0.5	1665
H027	127348	302.53	304.46	1.93	YVR1710131	0.145	<0.5	2289
H027	127349	304.46	307.46	3	YVR1710131	0.059	<0.5	647
H027	127350	307.46	310.46	3	YVR1710131	0.025	<0.5	428
H027	127351	310.46	312.46	2	YVR1710131	0.054	<0.5	374
H027	127352	312.46	315.46	3	YVR1710131	0.129	<0.5	687
H027	127353	315.46	318	2.54	YVR1710131	0.249	<0.5	679
H027	127354	318	319.56	1.56	YVR1710131	0.04	<0.5	511
H027	127355	319.56	322.56	3	YVR1710131	0.063	<0.5	625
H027	127356	322.56	325.56	3	YVR1710131	0.178	0.6	1187
H027	127357	325.56	328.56	3	YVR1710131	0.104	<0.5	1037
H027	127358	328.56	331.56	3	YVR1710131	0.043	<0.5	585
H027	127359	331.56	334.56	3	YVR1710131	0.172	<0.5	1135
H027	127360	Cu189-Std			YVR1710131	0.829	12.5	8845
H027	127361	334.56	337.56	3	YVR1710131	0.233	0.7	1325
H027	127362	337.56	340.56	3	YVR1710131	0.19	<0.5	1296
H027	127363	340.56	342.56	2	YVR1710131	0.148	<0.5	847
H027	127364	342.56	344.2	1.64	YVR1710131	0.223	<0.5	2424
H027	127365	344.2	347.2	3	YVR1710131	0.181	<0.5	1393
H027	127366	347.2	350.2	3	YVR1710131	0.479	0.5	1199
H027	127367	350.2	352.2	2	YVR1710131	0.281	<0.5	1155
H027	127368	352.2	353.95	1.75	YVR1710131	0.144	<0.5	3476
H027	127369	353.95	356.95	3	YVR1710131	0.239	<0.5	1051
H027	127370	356.95	359.95	3	YVR1710131	0.083	<0.5	961
H027	127371	359.95	361.95	2	YVR1710131	0.171	0.5	2274

Hole	Sample	From	To	Int. (m)	Cert No	Au ppm	Ag ppm	Cu ppm
H027	127372	361.95	363.11	1.16	YVR1710131	0.129	0.8	1640
H027	127373	363.11	366.11	3	YVR1710131	0.123	<0.5	1225
H027	127374	366.11	369.11	3	YVR1710131	0.113	<0.5	1178
H027	127375	369.11	372.11	3	YVR1710131	0.072	0.5	735
H027	127376	372.11	375.11	3	YVR1710128	0.092	<0.5	739
H027	127377	375.11	378.11	3	YVR1710128	0.038	<0.5	768
H027	127378	378.11	381.11	3	YVR1710128	0.032	<0.5	656
H027	127379	381.11	382.23	1.12	YVR1710128	<0.005	<0.5	62
H027	127380	382.23	385.23	3	YVR1710128	0.009	<0.5	144
H027	127381	385.23	388.23	3	YVR1710128	0.082	<0.5	755
H027	127382	388.23	389.58	1.35	YVR1710128	0.03	<0.5	670
H027	127383	389.58	392.58	3	YVR1710128	0.027	<0.5	490
H027	127384	392.58	395.58	3	YVR1710128	0.025	<0.5	952
H027	127385	395.58	397.58	2	YVR1710128	<0.005	<0.5	241
H027	127386	397.58	399	1.42	YVR1710128	0.06	<0.5	1523
H027	127387	399	401.7	2.7	YVR1710128	0.362	0.7	4614
H027	127388	401.7	404.7	3	YVR1710128	0.022	<0.5	837
H027	127389	404.7	406	1.3	YVR1710128	0.034	<0.5	356
H027	127390	Blank			YVR1710128	<0.005	<0.5	10
H027	127391	406	408.37	2.37	YVR1710128	0.017	<0.5	1037
H027	127392	408.37	411.32	2.95	YVR1710128	0.006	<0.5	1073
H027	127393	411.32	414.32	3	YVR1710128	0.068	<0.5	975
H027	127394	414.32	417.32	3	YVR1710128	0.161	<0.5	1190
H027	127395	417.32	420.32	3	YVR1710128	0.044	<0.5	666
H027	127396	420.32	423.32	3	YVR1710128	0.026	<0.5	601
H027	127397	423.32	425.32	2	YVR1710128	0.015	<0.5	197
H027	127398	425.32	427.45	2.13	YVR1710128	0.031	<0.5	582
H027	127399	427.45	430.45	3	YVR1710128	0.056	0.8	1422
H027	127400	430.45	433.45	3	YVR1710128	0.071	<0.5	494
H027	127401	433.45	436.45	3	YVR1710128	0.068	<0.5	1325
H027	127402	436.45	439.45	3	YVR1710128	0.032	<0.5	1958
H027	127403	439.45	442.45	3	YVR1710128	0.054	<0.5	1519
H027	127404	442.45	445.45	3	YVR1710128	0.012	<0.5	606
H027	127405	445.45	448.45	3	YVR1710128	0.012	<0.5	623
H027	127406	448.45	450.3	1.85	YVR1710128	0.006	<0.5	366
H027	127407	450.3	452.93	2.63	YVR1710128	0.006	<0.5	201
H027	127408	452.93	455.93	3	YVR1710128	<0.005	<0.5	28
H027	127409	455.93	457.93	2	YVR1710128	0.014	1.3	14
H027	127410	457.93	459	1.07	YVR1710128	<0.005	<0.5	12
H027	127411	459	461.16	2.16	YVR1710128	<0.005	<0.5	12
H027	127412	461.16	462.68	1.52	YVR1710128	0.074	<0.5	1706
H027	127413	462.68	465.68	3	YVR1710128	0.032	<0.5	631
H027	127414	465.68	468.68	3	YVR1710128	0.046	<0.5	1494
H027	127415	468.68	472.18	3.5	YVR1710128	0.01	<0.5	1630
H027	127416	472.18	475.57	3.39	YVR1710128	0.023	<0.5	286
H027	127417	475.57	478.57	3	YVR1710128	0.053	<0.5	862
H027	127418	478.57	481.26	2.69	YVR1710128	0.035	0.8	633

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H027	127419	481.26	484.26	3	YVR1710128	0.01	<0.5	9
H027	127420	Cu193-Std			YVR1710128	0.503	3.3	5690
H027	127421	484.26	487.26	3	YVR1710128	<0.005	<0.5	17
H027	127422	487.26	490.26	3	YVR1710128	0.017	<0.5	139
H027	127423	490.26	493.26	3	YVR1710128	<0.005	<0.5	32
H027	127424	493.26	496.26	3	YVR1710128	<0.005	<0.5	5
H027	127425	496.26	498.26	2	YVR1710128	<0.005	<0.5	10
H027	127426	498.26	500.48	2.22	YVR1710128	0.006	<0.5	66
H028	127427	4.57	7.57	3	YVR1710130	0.023	<0.5	120
H028	127428	7.57	10.37	2.8	YVR1710130	0.068	1.1	1013
H028	127429	10.37	13.37	3	YVR1710130	0.142	0.5	1737
H028	127430	13.37	16.37	3	YVR1710130	0.057	<0.5	921
H028	127431	16.37	19.37	3	YVR1710130	0.007	<0.5	221
H028	127432	19.37	22.37	3	YVR1710130	0.014	0.5	243
H028	127433	22.37	25.37	3	YVR1710130	0.01	<0.5	160
H028	127434	25.37	28.37	3	YVR1710130	<0.005	<0.5	233
H028	127435	28.37	29.9	1.53	YVR1710130	0.008	1.6	841
H028	127436	29.9	31.66	1.76	YVR1710130	0.005	0.8	605
H028	127437	31.66	34.66	3	YVR1710130	0.005	<0.5	141
H028	127438	34.66	37.66	3	YVR1710130	<0.005	<0.5	60
H028	127439	37.66	40.66	3	YVR1710130	0.005	<0.5	141
H028	127440	40.66	43.66	3	YVR1710130	<0.005	<0.5	215
H028	127441	43.66	45.66	2	YVR1710130	<0.005	<0.5	165
H028	127442	45.66	47.55	1.89	YVR1710130	0.045	<0.5	351
H028	127443	47.55	50.55	3	YVR1710130	0.007	<0.5	185
H028	127444	50.55	53.55	3	YVR1710130	0.044	<0.5	222
H028	127445	53.55	56.55	3	YVR1710130	<0.005	1	383
H028	127446	56.55	59.55	3	YVR1710130	<0.005	<0.5	207
H028	127447	59.55	62.55	3	YVR1710130	0.025	<0.5	359
H028	127448	62.55	64.53	1.98	YVR1710130	0.366	<0.5	41
H028	127449	64.53	67.53	3	YVR1710130	0.026	<0.5	16
H028	127450	Cu189-Std			YVR1710130	0.873	12.7	8984
H028	127451	67.53	70.53	3	YVR1710130	0.025	<0.5	15
H028	127452	70.53	73.53	3	YVR1710130	0.022	<0.5	24
H028	127453	73.53	76.53	3	YVR1710130	0.024	<0.5	11
H028	127454	76.53	78	1.47	YVR1710130	0.012	<0.5	11
H028	127455	78	79.77	1.77	YVR1710130	<0.005	<0.5	21
H028	127456	79.77	82.77	3	YVR1710130	0.005	0.8	564
H028	127457	82.77	85.77	3	YVR1710130	<0.005	<0.5	206
H028	127458	85.77	88.32	2.55	YVR1710130	0.006	0.5	153
H028	127459	88.32	90.62	2.3	YVR1710130	0.052	<0.5	485
H028	127460	90.62	93.62	3	YVR1710130	0.01	<0.5	253
H028	127461	93.62	96.62	3	YVR1710130	<0.005	<0.5	88
H028	127462	96.62	99.62	3	YVR1710130	0.006	<0.5	145
H028	127463	99.62	102.41	2.79	YVR1710130	0.017	<0.5	351
H028	127464	102.41	105.41	3	YVR1710130	0.014	<0.5	347

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H028	127465	105.41	108	2.59	YVR1710130	0.017	<0.5	406
H028	127466	108	109.2	1.2	YVR1710130	<0.005	<0.5	244
H028	127467	109.2	110.93	1.73	YVR1710130	0.033	0.6	960
H028	127468	110.93	113.93	3	YVR1710130	0.008	<0.5	202
H028	127469	113.93	116.93	3	YVR1710130	0.014	<0.5	336
H028	127470	116.93	119.93	3	YVR1710130	0.007	<0.5	142
H028	127471	119.93	121.9	1.97	YVR1710130	0.016	0.5	460
H028	127472	121.9	124.9	3	YVR1710130	0.013	<0.5	273
H028	127473	124.9	127.9	3	YVR1710130	0.34	11.6	18550
H028	127474	127.9	130.9	3	YVR1710130	0.215	2.6	5056
H028	127475	130.9	133.9	3	YVR1710130	0.119	1.1	2446
H028	127476	133.9	136.9	3	YVR1710130	0.015	<0.5	238
H028	127477	136.9	139.9	3	YVR1710130	0.024	<0.5	404
H028	127478	139.9	142.9	3	YVR1710130	0.026	<0.5	491
H028	127479	142.9	145.9	3	YVR1710130	0.012	<0.5	268
H028	127480	Cu165-Std			YVR1710130	1.476	33	3117
H028	127481	145.9	148.9	3	YVR1710130	0.012	<0.5	343
H028	127482	148.9	151.9	3	YVR1710130	0.006	<0.5	226
H028	127483	151.9	154.9	3	YVR1710130	0.007	<0.5	820
H028	127484	154.9	157.27	2.37	YVR1710130	0.045	0.5	1217
H028	127485	157.27	160.27	3	YVR1710130	0.038	0.9	1596
H028	127486	160.27	163.27	3	YVR1710130	0.068	1	2456
H028	127487	163.27	165	1.73	YVR1710130	0.051	<0.5	813
H028	127488	165	166.28	1.28	YVR1710130	0.049	1	1177
H028	127489	166.28	169.28	3	YVR1710130	0.033	0.5	1017
H028	127490	169.28	172.28	3	YVR1710130	0.106	<0.5	972
H028	127491	172.28	175.28	3	YVR1710130	0.195	<0.5	2168
H028	127492	175.28	178.28	3	YVR1710130	0.558	1.1	4768
H028	127493	178.28	181.28	3	YVR1710130	0.094	<0.5	1242
H028	127494	181.28	184.28	3	YVR1710130	0.121	<0.5	1183
H028	127495	184.28	187.28	3	YVR1710130	0.105	0.7	1391
H028	127496	187.28	190.15	2.87	YVR1710130	0.088	<0.5	1069
H028	127497	190.15	193.15	3	YVR1710130	0.217	0.9	2270
H028	127498	193.15	196.15	3	YVR1610280	0.106	0.9	1343
H028	127499	196.15	199.15	3	YVR1610280	0.052	0.8	1106
H028	127500	199.15	201	1.85	YVR1610280	0.024	<0.5	197
H028	127501	201	202.9	1.9	YVR1610280	0.034	2.6	2846
H028	127502	202.9	205.9	3	YVR1610280	0.038	<0.5	439
H028	127503	205.9	208.9	3	YVR1610280	0.005	1.2	1203
H028	127504	208.9	211.9	3	YVR1610280	0.019	0.9	640
H028	127505	211.9	214.9	3	YVR1610280	0.005	0.7	693
H028	127506	214.9	217.41	2.51	YVR1610280	0.007	<0.5	128
H028	127507	217.41	220.41	3	YVR1610280	<0.005	<0.5	272
H028	127508	220.41	223.41	3	YVR1610280	<0.005	0.9	645
H028	127509	223.41	226.41	3	YVR1610280	<0.005	<0.5	159
H028	127510	Blank			YVR1610280	<0.005	<0.5	7
H028	127511	226.41	229.41	3	YVR1610280	0.05	2.7	2493

Hole	Sample	From	To	Int. (m)	Cert_No	Au_ppm	Ag_ppm	Cu_ppm
H028	127512	229.41	232	2.59	YVR1610280	<0.005	<0.5	68
H028	127513	232	233.47	1.47	YVR1610280	<0.005	<0.5	68
H028	127514	233.47	236.47	3	YVR1610280	<0.005	<0.5	56
H028	127515	236.47	239.47	3	YVR1610280	<0.005	<0.5	235
H028	127516	239.47	241.32	1.85	YVR1610280	0.008	2	854
H028	127517	241.32	244.32	3	YVR1610280	<0.005	0.8	462
H028	127518	244.32	247.32	3	YVR1610280	<0.005	0.6	416
H028	127519	247.32	249.32	2	YVR1610280	<0.005	<0.5	254
H028	127520	249.32	250.86	1.54	YVR1610280	<0.005	<0.5	120
H028	127521	250.86	253.86	3	YVR1610280	0.008	1.2	1139
H028	127522	253.86	255.86	2	YVR1610280	0.013	3.5	3862
H028	127523	255.86	257.86	2	YVR1610280	0.094	5.7	6621
H028	127524	257.86	259.86	2	YVR1610280	<0.005	<0.5	476
H028	127525	259.86	261.4	1.54	YVR1610280	0.005	0.8	797
H028	127526	261.4	264.4	3	YVR1610280	0.02	0.7	938
H028	127527	264.4	267.4	3	YVR1610280	0.066	<0.5	971
H028	127528	267.4	270	2.6	YVR1610280	0.104	0.6	875
H028	127529	270	273	3	YVR1610280	0.015	<0.5	351
H028	127530	273	276	3	YVR1610280	0.009	<0.5	292
H028	127531	276	278.23	2.23	YVR1610280	0.005	<0.5	144
H028	127532	278.23	280.23	2	YVR1610280	0.008	<0.5	357
H028	127533	280.23	282.14	1.91	YVR1610280	0.033	1	1584
H028	127534	282.14	285.14	3	YVR1610280	0.024	1.1	235
H028	127535	285.14	288.14	3	YVR1610280	0.013	<0.5	660
H028	127536	288.14	291.14	3	YVR1610280	0.005	<0.5	139
H028	127537	291.14	294.1	2.96	YVR1610280	0.052	<0.5	1398
H028	127538	294.1	297.1	3	YVR1610280	0.017	<0.5	257
H028	127539	297.1	300.1	3	YVR1610280	0.01	<0.5	244
H028	127540	Cu193-Std			YVR1610280	0.808	12.1	9372
H028	127541	300.1	303.1	3	YVR1610280	0.017	<0.5	233
H028	127542	303.1	306.1	3	YVR1610280	0.022	<0.5	466
H028	127543	306.1	307.72	1.62	YVR1610280	<0.005	<0.5	212
H028	127544	307.72	310.72	3	YVR1610280	0.138	0.6	1413
H028	127545	310.72	312.1	1.38	YVR1610280	<0.005	<0.5	78
H028	127546	312.1	315.1	3	YVR1610280	0.008	0.7	138
H028	127547	315.1	318.1	3	YVR1610280	0.01	<0.5	130
H028	127548	318.1	320.55	2.45	YVR1610280	0.023	<0.5	173
H028	127549	320.55	323.55	3	YVR1610280	1.432	3.4	7323
H028	127550	323.55	326.55	3	YVR1610280	0.221	0.6	1657
H028	127551	326.55	328.55	2	YVR1610280	0.16	0.6	1372
H028	127552	328.55	330.64	2.09	YVR1710129	0.112	0.6	940
H028	127553	330.64	333.64	3	YVR1710129	0.046	0.6	830
H028	127554	333.64	336.64	3	YVR1710129	0.071	0.7	545
H028	127555	336.64	338.6	1.96	YVR1710129	0.062	<0.5	1056
H028	127556	338.6	340.15	1.55	YVR1710129	0.042	0.9	1650
H028	127557	340.15	343.15	3	YVR1710129	0.012	0.6	1077
H028	127558	343.15	346.15	3	YVR1710129	0.123	1.6	4457

Hole	Sample	From	To	Int. (m)	Cert No	Au ppm	Ag ppm	Cu ppm
H028	127559	346.15	348.6	2.45	YVR1710129	0.303	3.9	11095
H028	127560	348.6	351.14	2.54	YVR1710129	0.026	0.5	298
H028	127561	351.14	353.69	2.55	YVR1710129	0.036	0.7	724
H028	127562	353.69	356.69	3	YVR1710129	0.136	0.6	1308
H028	127563	356.69	359.69	3	YVR1710129	0.102	0.7	1437
H028	127564	359.69	362.69	3	YVR1710129	0.136	0.5	1189
H028	127565	362.69	365	2.31	YVR1710129	0.089	<0.5	1058
H028	127566	365	366.59	1.59	YVR1710129	0.365	0.6	2399
H028	127567	366.59	369.39	2.8	YVR1710129	0.175	<0.5	1500
H028	127568	369.39	372.39	3	YVR1710129	0.588	0.7	1525
H028	127569	372.39	375.39	3	YVR1710129	0.029	<0.5	461
H028	127570	Cu189-Std			YVR1710129	0.887	12.7	9232
H028	127571	375.39	378.39	3	YVR1710129	0.046	<0.5	664
H028	127572	378.39	379.68	1.29	YVR1710129	0.274	0.9	2223
H028	127573	379.68	382.68	3	YVR1710129	0.433	0.7	3592
H028	127574	382.68	385.68	3	YVR1710129	0.328	0.7	3448
H028	127575	385.68	388.68	3	YVR1710129	0.196	0.6	2235
H028	127576	388.68	391.12	2.44	YVR1710129	0.631	1.4	8757
H028	127577	391.12	394.12	3	YVR1710129	0.111	0.6	1409
H028	127578	394.12	396.5	2.38	YVR1710129	0.15	0.6	1664
H028	127579	396.5	398.06	1.56	YVR1710129	0.08	<0.5	1235
H028	127580	398.06	401.06	3	YVR1710129	0.131	<0.5	1462
H028	127581	401.06	404.06	3	YVR1710129	0.152	<0.5	1845
H028	127582	404.06	407.06	3	YVR1710129	0.128	<0.5	1806
H028	127583	407.06	410.06	3	YVR1710129	0.112	0.8	1952
H028	127584	410.06	411.5	1.44	YVR1710129	0.092	<0.5	1423
H028	127585	411.5	413.31	1.81	YVR1710129	0.044	0.5	522
H028	127586	413.31	416.31	3	YVR1710129	0.227	0.5	194
H028	127587	416.31	419.31	3	YVR1710129	0.076	<0.5	1176
H028	127588	419.31	421	1.69	YVR1710129	0.06	0.6	1138
H028	127589	421	423	2	YVR1710129	0.36	0.7	4280
H028	127590	423	424.4	1.4	YVR1710129	0.331	<0.5	3522
H028	127591	424.4	427.4	3	YVR1710129	0.109	0.6	1779
H028	127592	427.4	430.4	3	YVR1710129	0.047	<0.5	892
H028	127593	430.4	433.4	3	YVR1710129	0.055	<0.5	882
H028	127594	433.4	436.04	2.64	YVR1710129	0.025	0.6	479
H028	127595	436.04	439.04	3	YVR1710129	<0.005	<0.5	97
H028	127596	439.04	442.04	3	YVR1710129	0.023	0.6	418
H028	127597	442.04	445.04	3	YVR1710129	0.023	0.5	451
H028	127598	445.04	448.04	3	YVR1710129	0.008	<0.5	172
H028	127599	448.04	451.04	3	YVR1710129	0.008	<0.5	106
H028	127600	Cu165-Std			YVR1710129	1.475	32.5	3050
H028	127601	451.04	454.04	3	YVR1710129	0.011	<0.5	108
H028	127602	454.04	457.04	3	YVR1710129	0.005	<0.5	113
H028	127603	457.04	459.04	2	YVR1710129	<0.005	<0.5	131
H028	127604	459.04	461.11	2.07	YVR1710129	<0.005	<0.5	59
H028	127605	461.11	464.11	3	YVR1710129	<0.005	<0.5	75

Hole	Sample	From	To	Int. (m)	Cert No	Au ppm	Ag ppm	Cu ppm
H028	127606	464.11	466.22	2.11	YVR1710129	<0.005	<0.5	48
H028	127607	466.22	469.22	3	YVR1710129	<0.005	<0.5	17
H028	127608	469.22	472.22	3	YVR1710129	<0.005	<0.5	38
H028	127609	472.22	475.22	3	YVR1710129	<0.005	<0.5	8
H028	127610	475.22	478.22	3	YVR1710129	<0.005	<0.5	51
H028	127611	478.22	481.22	3	YVR1710129	<0.005	0.6	56
H028	127612	481.22	484.22	3	YVR1710129	<0.005	<0.5	32
H028	127613	484.22	487.22	3	YVR1710129	<0.005	<0.5	46
H028	127614	487.22	490.22	3	YVR1710129	<0.005	<0.5	37
H028	127615	490.22	492.55	2.33	YVR1710129	<0.005	0.5	47
H028	127616	492.55	495.55	3	YVR1710129	0.037	<0.5	504
H028	127617	495.55	496.84	1.29	YVR1710129	<0.005	<0.5	57
H028	127618	496.84	499.84	3	YVR1710129	<0.005	<0.5	20
H028	127619	499.84	502.84	3	YVR1710129	<0.005	<0.5	16
H028	127620	502.84	504.75	1.91	YVR1710129	<0.005	<0.5	43
H029	127626	14.36	17.36	3	YVR1610281	0.03	<0.5	941
H029	127634	30.72	33.72	3	YVR1610281	0.05	0.6	594
H029	127640	46.15	48	1.85	YVR1610281	0.062	<0.5	269
H029	127645	60	63	3	YVR1610281	0.01	<0.5	333
H029	127651	76.5	78.5	2	YVR1610281	0.023	<0.5	163
H029	127657	92.15	95.15	3	YVR1610281	0.008	<0.5	28
H029	127663	104.42	106.42	2	YVR1610281	0.016	<0.5	581
H029	127670	121.69	124.69	3	YVR1610281	0.01	<0.5	94
H029	127674	132.69	135.69	3	YVR1610281	0.009	<0.5	112
H029	127681	151.58	153	1.42	YVR1610281	<0.005	<0.5	146
H029	127687	168	169.46	1.46	YVR1610281	<0.005	<0.5	150
H029	127692	178.46	181.46	3	YVR1610281	<0.005	<0.5	222
H029	127699	197.1	200.1	3	YVR1610281	<0.005	<0.5	191
H029	127704	210.39	213.39	3	YVR1610281	0.01	<0.5	171
H029	127710	226.19	228.19	2	YVR1610281	<0.005	<0.5	102
H029	127713	233.52	236.22	2.7	YVR1610281	0.008	0.9	301
H030	127714	8	11	3	YVR1610281	0.016	<0.5	51
H030	127715	23	26	3	YVR1610281	<0.005	<0.5	156
H030	127716	38	41	3	YVR1610281	0.005	<0.5	401
H030	127717	53.34	56.34	3	YVR1610281	<0.005	<0.5	50
H030	127718	56.34	58	1.66	YVR1610281	0.006	<0.5	382
H030	127719	58	59.43	1.43	YVR1610281	0.016	1.1	1297
H030	127720	Cu187-Std			YVR1610281	0.537	12.4	3830
H030	127721	73	76	3	YVR1610281	0.006	<0.5	355
H030	127722	88	91	3	YVR1610281	<0.005	<0.5	186
H030	127723	103	106	3	YVR1610281	<0.005	<0.5	145
H030	127724	121	124	3	YVR1610281	<0.005	<0.5	66
H030	127725	136	139	3	YVR1610281	0.007	<0.5	11

## APPENDIX 3 – Drill Logs

<b>Hole:</b>	H026	<b>Easting:</b>	348024	Elevation: 1005m
<b>Logged by:</b>	Parviz Rajaei	<b>Northing:</b>	6454358	
<b>Sampled by:</b>	Parviz Rajaei	<b>Dip:</b>	-60	Date End: 11/12/2016
<b>Depth:</b>	568.45m	<b>azimuth:</b>	180	
<b>Hole #</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Rock type</b>	<b>Description</b>
H026	0	15.96	DI	pale gray Diorite, hornblende phenocryst are destroyed and altered to chlorite and contain quartz, pyrite, Feldspars phenocryst locally replaced with ankerite, quartz in veins are dominated with less carbonate at the edge. The position of sulphides within veins varies; commonly sulphides occur in the centre but are also concentrated along a margin of a vein, but most of sulfides are at edge of feldspars phenocryst, at depth of 11.22 m, ribbon vein of 3 cm chalcopyrite
H026	15.96	16.66	Dy	Andesite dyke with 20% of boxy Feldspars in fine greenish gray groundmass, both upper and lower contacts are broken
H026	16.66	22.06	DI	Diorite, hornblende phenocryst partially altered, to chlorite, feldspars are anhedral and leached to each other at the edge replaced by quartz and tinted by light greenish chlorite, and composed 20% of rock, pyrite and less chalcopyrite disseminated or filled the fractures around 2mm at 80 degrees, and also in hairline fractures which have no specific directions
H026	22.06	23.58	DI	Coarse grained Diorite, with 40% feldspar phenocryst packed together with quartz at the edge, hornblende phenocryst around 2mm in the center altered to chlorite and replaced by pyrite, disseminated sulfide around 2%, and also in stockwork hairline fractures in some part extends to 2mm, upper contact broken, lower contact very irregular

H026	23.58	42.15	DI	Diorite strongly altered to fine grained dark gray groundmass, with blebs of feldspar less than 0.05mm, partially the main texture of diorite is visible, feldspars are greenish color of chlorite, phenocryst in some part of core have foliation at 45 deg with sericite alteration, Quartz calcite veins up 3mm from 27.90m to 29.40m with intensity of 7 veins/m. dominate fractures at 45 deg with few at 20, from 25.71 to 26.30 m core is broken 1m of upper contact silicified irregular with 2 % of sulfide and minor cp, from 23.58 to 24.80, 0.2 cp
H026	42.15	44.2	DI	Diorite. Packed coarse feldspars 61%, altered to quartz, beige color of sericite, less 0.5 disseminated pyrite, 0.20 m upper contact foliated with irregular upper contact, core somewhat broken
H026	44.2	49.44	DI	Diorite, with strong light green alteration which obliterated the texture to a fine grained groundmass, some remnants of feldspars altered to salmon color of k feldspar, with some sort of foliation of sulfides at 45 degree, with strong mineralization of coarse sulfides from top of the section to 47m about 3% of, from 49.45 about 0.30 m of core crush
H026	49.44	67.68	DI	Diorite, with strong alteration which destroyed hornblende and partially blebs of feldspar less than 1mm, with patches of k-feldspars at 58.50, 53m and at halo of stockwork fractures at 80 deg at 65.53m, sulfides are ribbon at 55.29m. 56.70m about 2 cm mostly concentrated along fractures at 45 degree, toward the bottom of section it disseminated to blebs <1% in fractures of quartz, chl, and ca, from hairline to 2mm at 63.68m patch of epidote with 3% sulfide and less cp
H026	67.68	72.13	DI	Diorite green, hornblende phenocryst are partially destroyed and altered to chlorite and magnetite, from 71.50m fine grained groundmass with spars of anhedral Feldspars phenocryst
H026	72.13	74.08	DI	Diorite, with dominated latched feldspars 50% with beige color of ankerite, hornblende phenocryst partially destroyed 30%, with less than 1% of disseminated pyrite
H026	74.08	75.52	DI	Diorite, very fine grained dark gray groundmass, about 20% of rock covered by olive color of Epidote, and calcic eyes 1cm. upper part of section with 45 degree of k- Feldspars, 3% of coarse grained cp mostly at edge and middle of epidote patches

H026	75.52	81.11	DI	Diorite, the texture of rock obliterated with remnant of anhedral feldspars at 2mm, 3% rock is weakly magnetite
H026	81.11	85.64	DI	Diorite, the texture of rock obliterated with remnant of anhedral feldspars at 2mm, 3%. Whole section is moderately magnetite, from 82.92, 0.20m of rock brecciated with angular clasts at 4 cm
H026	85.64	86.14	F	Fault, 0.20 m at the top blocky up to 5 cm, the rest is crushed
H026	86.14	96.88	DI	diorite, the texture of rock obliterated with remnant of anhedral feldspars at 2mm, rock is weakly magnetic, at 94m to 94.60, 0.60 m core broken, slickensided at 45 deg, from 95.5 to 95.4, and 95.5 to 96 broken at 10 deg, slickensided
H026	96.88	106.26	DI	diorite, the texture of rock obliterated with remnant of anhedral feldspars at 2mm most of the texture destroyed to a aphanitic groundmass, strong magnetic alteration with increasing of k feldspar halo about 4m along quartz calcite, biotite veins around 10% of the section, toward the bottom magnetic decrease, from 106.76 to the end of section breccia with angular clast to 5 cm
H026	106.26	110.65	DI	diorite. coarse grained hrb, dark green up to 50%, with feldspar up to 30%, patches of mild epidote, with moderate magnetite alteration, patches of k-feldspar, coarse grained sulfide along 10 degree veins, partially disseminated, lower contact is sharp at 10 degree
H026	110.65	112.2	DI	Diorite, strong alteration made the rock to aphanitic dark gray texture with moderate magnetite alt, in small portions was strong, the section has 5%, pyrite disseminated with small specks of cp in the py
H026	112.2	113.7	F	Fault zone, angular blocky rock at the top and bottom up to 5cm, in the middle is crushed, upper and lower contacts are broken
H026	113.7	116	DI	Diorite, hbl phenocryst totally destroyed to magnetite, and dark green biotite. k-feldspars haloes q veins at 45, coarse grained py disseminated and in the veins up to 3 mm average
H026	116	117.15	F	Fault zone, 0.50m at the top breccia with angular blocks up to 3 cm, at the bottom is blocky mixed with clay the top contact at 45, lower contact is broken

H026	117.15	120.7	DI	Diorite, hbl phenocryst partially destroyed to chlorite, and magnetite, feldspars are anhedral up to 2 mm 50%, this section has white soft spots less than 0.5 mm about % 5 (sericite?) and very few blebs of py
H026	120.7	123.69	F	Fault, blocky rocks slickensided, brecciated, and partially smashed some blocks up to 8 cm upper contact 10 deg, lower contact is broken
H026	123.69	131	DI	Diorite, hbl phenocryst totally destroyed, feldspars are anhedral and from 128-129 with orange color of k feldspar, cp disseminated around 0.1 as blebs, from 130m 0.6m of core broken at 10 degree
H026	131	138.28	DI	Diorite, dark gray fine grained texture with some portions sparce anhedral feldspars up to 2mm, hbl phenocryst are totally obitreted, weakly magnetite alteration
H026	138.28	165.07	DI	Diorite, remanat of hbl anhedral up to 3mm 10%, and less 1mm feldspar cover the section from 0 to 20%, moderate magnetite alteration, from 148 m to the bottom with specks of 3mm hematite, from 118.6m, 0.50m with patchy k-feldspar, at 163.77m 0.9m, very fine grained dark gray aphenitic texture of the section, and with 10 cm diorite xenolith in it with sharp contact at 10 degree at the top and 80 degree at the bottom
H026	165.07	181.36	Dy	Boxy feldspar up to 3 mm in fine grained greenish gray ground mass with chl on their surface and some kind of foliation, it has a districtive contact at upper part at 80 degree
H026	181.36	190.9	DI	Diorite, hbl phenocryst strongly altered to fine grained groundmass of chlorite and specks of hematite, with remnant of anhedral feldspars 25%, from top of the section to 184.40 m k- feldspar alteration made halo around quartz veins which carries sulfide up to 3 mm at 45 degree, from 189m an irregular fracture runs to 190.9 which carries average of 4 cm pyrite with minor cp, at 184.50 there is a magnetite vein about 2cm which have 20% py and 1% cp
H026	190.9	193.55	DI	Diorite, altered feldspars altered to orange k-feldspar around 50% m, with the clay alteration at the bottom, light green chl, black color of biotite, along magnetite at the bottom of the section

H026	193.55	214.88	DI	Diorite, hbl phenocryst are destroyed and made the texture, hematite specks up to 2mm very few, part of section anhedral hbn are visible 3 mm 40%, feldspars are anhedral about 20%, rock is greenish gray, epidote veins at 20 degree with average of 2 cm which carries py and cp, about 7 veins in whole section, py are clustered, and disseminated, in some veins up to 3cm at 10 degree, minor traces of k-feldspar 1% of the section to the depth of 202 .59m, the section is more magnetic at the top which decrease at the bottom, 10 degree quartz vein cross cut by 45 degree veins
H026	214.88	252.86	DI	Diorite, hbl phenocryst partially destroyed to fine grained groundmass of magnetite, specks of red hematite, and chl, about 40%, anhedral feldspars 1mm, 10%, with small patch of alteration of k-feldspar at 231m, specks of cp disseminated, especially in epidote veins 239.2m, at 249.41m 20 cm of epidote band at 50 degree with bleb of 2mm cp
H026	252.86	271.45	DI	Diorite, hbl phenocryst obliterated to dark gray groundmass, feldspars are boxed with somewhat orientation 25%, tinted with chl, partially to k-feldspar, the texture is very similar to dyks? from 264 .2 dominated by hbl phenocryst 30%, the contact with upper section is 2cm epidote vein at 30 degree with quartz and k-f at the edge and bleb of cp, patches of dark reddish k-f all over the core, over 5%, from 261.60m-264.2 concentration of disseminated cp from coarse grained to 2cm bands at 45 degree are visible in dark gray patches of strong magnetite alteration, from 269.65-271.15, mixture of epidote alteration and dark red of k-f and coarse grained of cp 3%
H026	271.45	306.5	DI	Diorite, hbl phenocryst 3mm about 40% altered to hematite specks and chlorite, bleached feldspars up to 2mm, partially patchy at the top of section, K feldspar at the edge of 10 degree fractures at 278.49 m, chl alteration gives greenish color to rock, quartz- chl- epidote veins up to 5 mm carries cp and py at 286.60m, 10 cm band of massive py which contain 10% of cp at 45 degree in epidote band from 303.28m, stockwork of hairline quartz veins at the bottom of section

H026	306.5	310.47	DI	Diorite, hbl phenocyst obliterated to fine grained ground mass 40% of strong magnetite, chlorite and rare specks of hematite, feldspar are bleached at the edge altered to K-feldspar, quartz in the middle, coarse grained cp up to 5mm have angle of 10, and 45 degree, at 309.5m, 5 cm band of cp at 50 degree, and at 309m 2 cm of massive py along the axe of core about 0.23m, at lower contact of the section 7cm epidote vein at 45 degree
H026	310.47	339.4	DI	Diorite, coarse grained hbl altered to chl. Specks of hematite, and feldspar same amount patches of k-feldspar and epidote vein (9 veins which 3 of them had specks of cp extended to 328.3m), from 327.56 stockwork of hairline to 3m quartz veins, from 330m to bottom of the section with moderate magnetite
H026	339.4	349.77	DI	Diorite, strong alteration patches of salmon color of K-feldspar .24 m covers 10% of core, with strong dark gray to black magnetite, which carries coarse cpnd py in some portions 5%, disseminated or bands at 45 degree, with veins of epidote 2cm, from 340.20 to 343.30 irregular veins from hairline to 1cm of dark red Hematite?
H026	349.77	361.77	DI	Diorite, medium gray fine grained groundmass with remnant of anhedral feldspar. Specks of hematite, with very small patches of k-feldspar and 3%, and from 2 cm to 15cm with blebs o f cp with swar of ca-q veins from 358.4 to 359.5m lower contact at 70 degree
H026	361.77	374.06	DI	Diorite, coarse phenocryst of hbl up to 4 mm, 20% feldspar 2mm 60%, small dark gray patches of obliterated phenocryst up to 3cm, small patches of k-feldspar about 5%
H026	374.06	386.2	DI	Diorite, hbl phenocryst destroyed to fine groundmass with traces of feldspar, magnetite alt is stronger toward the bottom of the section, epidote veins from 1 cm to 8 cm at bottom of the section which carries 2% of cp, k-feldspar patchy around the main texture of core 10%, with 1% of dark red wisp of Hematite?

H026	386.2	418.35	DI	Augite, green phenocryst around 40% from top of the section with strong chl to 392m, feldspars altered, 404m around 50%, from 412-412.50m magnetite alt with epidote veins which have cp, epidote alterations in veins up to 10 cm with coarse cp, around 10% of the section
H026	418.35	444.78	DI	Diorite, texture of rock totally destroyed to fine grained dark gray groundmass, from top of section to 421.35m strongly magnetite, from there the texture of diorite is visible to 422.75, from this depth to 428.24 epidote alteration is patchy and lack of mineralization, except for one vein at 426.20m at 10 degree, from 431.30 epidote veins appear which carry cp, at 436.39 and 441.14, two lenses of massive py with cp at 0.5cm
H026	444.78	454.86	DI	Diorite, fine grained dark green alteration, some hbl are visible 2mm, but 90% destroyed to chl, and possible dark greenish Biotite, remnant of feldspars less than 1 mm, patch of k-feldspar alteration 448.5-449m, from top of the section to 447.53 epidote veins with cp (3- veins average of 10mm), at 452 .63, 0.5m of core with stock work of q-chl vein 4mm with %5 of coarse cp
H026	454.86	461.67	DI	Diorite, alt' red fine grained black magnetite which covers 95% of the rock, with patches of epidote alteration from 2mm to 10 cm 2% at 45 degree, with wisp of dark red k feldspar at top of the section upper contact is gradational, lower is broken, fault 457.6- 458m, zone is crushed
H026	461.67	482.48	DI	Diorite from top of the section to 476.7m very pervasive light green alteration with patches of orange color of K feldspar covers the rock, and slightly silicified, main texture of the rock coarse grained augite phenocryst around 40% with 10% of k- feldspar alteration at 471.6m about 2m with epidote alt, from 477.6m with bands of black magnetite which carry cp and covers 3% of the section
H026	482.48	487.8	DI	Diorite, coarse grained augite phenocryst 40%, with patchy k-feldspar alt 20%, interbedded with black magnetite sections with contact of 50 degree and covers 50% of the section with disseminated coarse grained cp almost 2% and average of 2mm, 0.40m top of the section with epidote veins at 20 degree

H026	487.8	518.64	DI	Diorite, coarse grained augite phenocryst 40%, with patchy of k-feldspar alteration at 10%, and sections 3% of black magnetite from 4 cm to 50 cm thickness with coarse grained cp av. of 3mm have contact of 45 degree with diorite , 0.40m top of the section with epidot veins at 20 degree, at 509.14m, 0.35m clay alteration with sharp lower contact at 45 deg, from 507m auguite phenocryst have black color and very low magnetite (amphibole alteration)
H026	518.64	522.03	DI	Diorite strongly altered to blackish color of magnetite with coarse grained cp up to 3mm disseminated and partially in veins at 20 degree
H026	522.03	531.38	DI	Diorite, coarse grained up to 40%, Phenocryst altered to black color of Amphibole? Is bit hard to scratch, about 20% of core altered to orange color of k- feldspar, from 528.5 to the end of the section altered to chlorite 30%
H026	531.38	536.94	DI	Diorite, coarse grained augite up to 3mm altered to black amphibole covers 40% of rock, patches of k-feldspar around 10%, almost 75% Of rock altered to magnetite only one band of magnetite at 45 degree 4mm have cp at 565m
H026	536.94	556.96	DI	Diorite, dark gray to black hbl phenocryst up to 60% and specks Of hematite, less than 0.5%,feldspars covered with light green chlorite and with 5% of K-feldspars, from top of the section to 536.5 strong magnetic section 12%, the rest is spotty mildly magnetic
H026	556.96	560.66	Dyke	Dyke 20% of boxy feldspar up to 2mm somewhat oriented in dark gray fine grained groundmass, there is only one quartz vein about 4mm with specks of epidote and cp
H026	560.66	568.45	DI	Diorite, dark gray to black hbl phenocryst up to 60% and specks of hematite, less than 0.5%, feldspars covered with light green chlorite and blueish color and with 1% of K- feldspars, some q veins have pink color, soft (ankerite?) with only one epidote vein at 45 degree 3mm

<b>Hole:</b>	H027	<b>Eastings:</b>	348024	Elevation: 1005m
<b>Logged by:</b>	Parviz Rajaei	<b>Northings:</b>	6454358	
<b>Sampled by:</b>	Parviz Rajaei	<b>Dip:</b>	-65	
<b>Depth:</b>	468.45m	<b>Azimuth:</b>	160	
<b>Hole #</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Rock type</b>	<b>Description</b>
H027	0.00	4.57	CA	Casing
H027	4.57	30.00	DI	Diorite, from beginning of hole altered to fine grained light gray with some section of original which compose of 20% anhedral hbl, and 40% feldspar which is 15% of the section, from 27.06.m, 0.85 m, felsic dyke? with 50% feldspar and 20% of hbl at sharp contact 80 degree at top, at bottom with 10 cm massive cp at 50 degree
H027	30.00	30.56	F	Fault zone, angular broken rocks from 5mm at the top to 4cm
H027	30.56	65.47	DI	Diorite, strongly altered to dark gray fine grained aphenitic texture, partially remnant of anhedral feldspars 2mm visible, top of the section is broken to the depth of 32.70m , clay alteration at 50.59m 5cm , and 54.44m 26cm, beyond that 1.40m brecciation with strong calcite veins which filled the semi rounded clasts up to 4 cm which has 10 degree contact with diorite at the bottom
H027	65.47	67.07	DY	Dyke, boxy feldspars 10%, silicified at the edges, hbl phenocrysts totally destroyed and give light green color to the rock, some remnant of hbl occupied by pyrite, upper contact at 45 degree, lower contact at 50 deg
H027	67.07	73.73	DI	Diorite, strongly altered to a fine grained dark gray texture with sparse feldspar less than 1mm 5%, with patchy unaltered portion which contains 10% of hbl., feldspars patchy altered to orange color of k- feldspar 14%, brecciation zone from 71m, to 72.6m, 0.20m clay alteration at 69.68m, and 0.10m at 73.73m
H027	73.73	78.22	DI	Diorite, green gray fine grained texture with altered anhedral feldspars 3% average of 1mm. Tinted by chlorite

H027	78.22	91.22	DI	Diorite, Medium to light gray fine grained texture, 10 cm of main texture about 40 % of coarse hbl, up to 4mm, k- felspar 1% enveloped some quartz veins, whole the section covered with stockwork of hairline of chlorite quartz calcite veins
H027	91.22	97.08	DI	Diorite, extremely altered milky color to green Phenocryst feldspar 20% up to 3mm, in a fine grained medium gray groundmass
H027	97.08	115.90	DI	Diorite, medium to dark gray fine grained groundmass with few patches of dark red k-feldspar less than 0.5%, patches of epidote veins with specks of cp, 4 veins, up to 3 cm, at 109.20m, 0.50m of rock with altered hbl in the middle chlorite and at the edges hematite 5%, amount of py increased in this section with spotty magnetite
H027	115.90	117.20	F	Fault zone, angular broken rocks from 5mm at the top 4cm upper and lower contacts at 45,
H027	117.20	119.61	DI	fine grained, dark gray texture partially with 7% of anhedral altered feldspars with gradational contact and patchy with 5 cm island of k-feldspar
H027	119.61	121.50	DY	Dyke, boxy feldspars 10%, altered, hbl phenocrysts totally destroyed and, medium fine grained groundmass, upper contact irregular , lower contact at 45 degree,
H027	121.50	127.39	DI	fine grained, dark gray texture partially with 15% of anhedral altered feldspars ,from 126m to the bottom core is broken
H027	127.39	144.93	DI	Diorite fine gained dark gray texture partially with patches of remnant felspar with k-feldspar enveloped chlorite veins 9 veins 2mm to 1cm ,20 degrees, mineralization starts at 135.24m almost to the bottom of the section, magnetite spotty at the zone of mineralization
H027	144.93	147.40	DI	Diorite, fine grained, greenish gray texture partially with 7% of anhedral altered feldspars up to 3mm with sharp contact at the bottom at 45 degree, upper contact at 10,from 146.22, 0.40m of core broken ,upper section at 20degree, lower broken

H027	147.40	164.02	DI	Diorite fine grained green texture with some remnant of hbl Phenocryst 2%, 2mm, feldspar totally destroyed, there are some white specks, reddish at the edge 2% (ankerite?) hard to scratch which some have blebs of py
H027	164.02	201.66	DI	Diorite, Dark gray fine grained, with few spots of k-feldspar enveloped 1mm quartz veins, py mineralization is very strong to massive enveloped 3cm epidote veins, or in the middle at 20 degree, with some specks of cp, strongest part of mineralization is, from 177.21-178.9m with 3% cp, magnetite is spotty, lower contact sharp at 45 degree
H027	200.66	215.58	DI	Diorite, fine grained green aphenetic texture with irregular fine grained black islands of amphibole? Up to 2 cm less than 1%, with disseminated py and specks of cp
H027	215.58	242.02	DI	Diorite, fine grained green aphenetic texture with irregular fine grained black islands of amphibole? Up to 5 cm 10%, from alteration of hbl, from 227m to 228.30 black magnetite section with 20% of mineralization, overall section has 7% disseminated py, 3 epidote veins total of 10 cm is on the section with specks of cp
H027	242.02	254.81	DI	Diorite, strongly altered to dark gray fine grained texture, with some dark greenish sections with sudden decrease in mineralization, epidote alteration in 3 veins with blebs of cp, brecciation at 251.36, 0.30m, at 252.1, 2 cm vein of quartz chl magnetite with cp
H027	254.81	269.70	DI	Diorite, with hbl phenocryst which most of them altered to black amphibole 3mm. In some parts texture totally destroyed with some remnant of feldspar less than 1mm, and less than 1% of k-feldspar which envelops some q- chl-mg with blebs of cp, epidote alteration from 261m envelops q-Ca veins about 6mm along the core axis about 1.5m

H027	269.70	280.70	DI	Diorite, the texture totally destroyed to fine grained dark gray texture with about 5%, less than 1mm white blebs some have reddish edges, at 270.2m. 0.20m with epidote alteration
H027	280.70	286.34	DI	Diorite, Dark gray, fine grained texture with 1% long feldspar 3 mm tinted with chlorite, island of main texture 30% medium grained hbl and semi rounded feldspar
H027	286.34	295.10	DI	Diorite, dark gray hbl 30%, partially obliterated and made fine grained greenish gray groundmass, 60% with some blebs of cp, one epidote vein with blebs of cp at 286.86m
H027	295.10	300.53	DY	Dyke, boxy feldspar tinted green by chalceration have somewhat foliation, and with 5% blebs less than 1mm white specks, both contacts seem gradational. 0.70 m top of the section with barren epidote veins
H027	300.53	304.46	DI	Diorite, altered to dark gray groundmass with irregular patches of chlorite15%, with disseminated cp
H027	304.46	319.56	DY	Dyke, boxy feldspar tinted green by chl alteration, have somewhat foliation, with 5% blebs less than 1mm white specks, epidote veins enveloped quartz veins which some of them have specks of cp which covers 0.7% of the section, contacts seems gradational
H027	319.56	344.20	DI	Diorite, black coarse grained augite 40%, in some parts made islands up to 5 cm, with patches of salmon color of k-feldspar and with some sections up to 40 at 336.4cm magnetite, cp is disseminated on core. and epidote veins
H027	344.20	353.95	DI	Diorite, black coarse grained augite 50%, with patches of salmon color of k-feldspar 6%, some sections up to 30 cm magnetite at 349.0 m , cp is disseminated in epidote veins which have angle of 45 degrees and cover 10% of the section

H027	353.95	363.11	DI	Diorite, feldspars phenocrysts almost destroyed with remnants of hornblende which altered to chlorite and give greenish color to the section, from 334.90m, 50cm of broken core with eye quartz at the bottom, 4cm band of k feldspar at 50 degree on section, 2 veins of epidote with cp, from 361.10m, 2m of section with 1% of disseminated cp
H027	363.11	382.23	DI	Diorite, black coarse grained augite 50%, with patches of salmon color of k-feldspar 3%, from 369.93m 0.70m of section magnetite with 1% of cp and coarse py up to 2cm, 7 epidote veins in this section which carry cp
H027	382.23	389.58	DI	Diorite, greenish gray Augite up to 2mm, patchy k-feldspar 16%, with speck of cp, section of 14% feldspars destroyed with remnant of augites,30 cm of magnetite at 382m and sharp lower contact of 50 degree at the bottom, have no mineralization and 30 cm at 385.32m with fine disseminated cp, 1%
H027	389.58	399.00	DI	Diorite, black augite altered and leached together make bands of fine grained dark gray color to the section 80%, from 397m coarse grained semi rounded to boxy quartz about 3mm and 5%, from 394.7m, 0.40m of section with epidote 4cm average and specks of cp envelops with 2mm hematite, which follows by 0.40 m of magnetite with specks of cp
H027	399.00	401.74	DI	Diorite Light green alteration, fine grained with hairline magnetite veins, from 400.7m and about 0.80m, of the section with some irregular semi rounded to elongated Quartz? And small blebs of epidote at 400.5m have cp blebs
H027	401.74	408.37	DI	Diorite, partially hbl phenocrysts altered and leached together, feldspars have light blue color at the edge ,80% of section altered, main texture is coarse grained black augite 3mm about 30%, epidote alteration covers about 5% of the section, with specks of cp

H027	408.37	411.32	DI	Diorite, strongly altered to black fine grained magnetite, 60% of section covered with epidote which occupied feldspars space and around hbl phenocryst, and also Epidote veins from 3mm to 5 cm thickness, 0.40 cm of main texture black augite phenocrysts 40%
H027	411.32	427.45	DI	Diorite, texture of rock almost destroyed and give blue gray color, 2% of hbl altered to dark red hematite which keep the shape of phenocryst
H027	427.45	450.30	DI	Diorite, texture of rock almost destroyed and give blue gray color, 2% of hbl altered to dark red hematite which keep the shape of phenocryst, with 17 epidote veins which covers 4% of the section and coarse cp 1mm
H027	450.30	452.93	DI	Diorite, greenish coarse grained augite up to 30% some of them altered to red hematite, feldspar tinted light green by chlorite, specks of py around hbl phenocrysts
H027	452.93	461.16	DI	Diorite, light gray fine grained groundmass with 2% of anhedral feldspars 2mm, some of them have beige color of ankerite with chlorite at the edge
H027	461.16	462.68	F	Fault zone, the rocks same as above, broken pieces have angular shape from clay to 10cm with 50 deg angle, both contacts are broken
H027	462.68	475.57	DI	Diorite, feldspar flooded with olive green epidote, Black augite phenocryst at 3mm 25%, some sections totally altered to fine grained groundmass with bands of barren epidote, from 473.39m, 0.50m of section with magnetite at 45 degree at the top with some bands of magnetite up to 4 cm
H027	475.57	481.26	DI	Diorite, altered to black magnetite from 476.51m 2.30m of core fine greenish gray with 5% of blebs of magnetite, at 479.10m, 0.15m of hematite alteration, upper contact at 45 lower contact at almost 50
H027	481.26	500.48	DI	Diorite, light greenish olive alteration totally destroyed the texture of core with small sections of main texture which consist of 30% of augite up to 3mm, magnetite hairline veins all over the core from 449.78m 0.50m broken magnetite

<b>Hole:</b>	H028	<b>Eastings:</b>	348024	Elevation: 1005m
<b>Logged by:</b>	Parviz Rajaei	<b>Northings:</b>	6454358	
<b>Sampled by:</b>	Parviz Rajaei	<b>Dip:</b>	-60	
<b>Depth:</b>	504.75m	<b>Azimuth:</b>	0	
<b>Hole #</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Rock type</b>	<b>Description</b>
H028	0	4.57	CA	Casing
H028	4.57	10.37	DI	Diorite, hbl phenocrysts totally obliterated and made fine grained light gray groundmass, with remnant of feldspar silicified at edges up to 2mm, disseminated py 5%, core is very broken
H028	10.37	31.66	DI	Diorite, augite phenocrysts up to 30%, from top of the section to 17 m with patch of k-feldspar toward the bottom it decrease blebs of cp in middle of some augite, at 19.80m a band of 2cm cp at 50 degree,
H028	31.66	47.55	DY	Dyke, foliated boxy feldspars in fine grained medium gray groundmass, feldspar have greenish color, and some reddish color of ankerite at the edges, from 41.15 to 41.65m core is broken, upper contact sharp at 10degree, lower contact at 45?
H028	47.55	64.53	DI	Diorite, the texture of core dark gray fine grained with some remnant of feldspar, silicified at the surface from 47.55 to 50.59m core is very broken, 10cm brecciation at 52.88m, main texture from 62.39m is Diorite with small spot of k-feldspar, alteration is intense at upper section and decrease toward the bottom
H028	64.53	79.77	DY	Dyke, foliated boxy feldspars in fine grained medium gray groundmass, feldspar have greenish color, and some reddish color of ankerite at the edges, upper contact broken, there are two sets of fractures at 45 witch have opposite directions and cross cut each other
H028	79.77	88.32	DI	Diorite coarse grained greenish augite phenocrysts 40%, most of them altered in chlorite and made feldspars light green color, less than 1% of py blebs semi round with cp? on section, at 87.27 quartz k-feldspar selvage quartz vein along the core

				axis
H028	88.32	90.62	DI	Diorite, semi rounded feldspars 7% and about 2mm in fine grained green gray groundmass has sharp contact 45 at top of the section and 20 degree at the bottom, silicified at the surface with 7% of py, and speck of cp, about 20 cm of main texture diorite with patch of k-feldspar
H028	90.62	102.41	DI	Diorite coarse grained greenish augite phenocrysts 40%, most of them altered in chlorite and made feldspars light green color, 6% of core covered with patches salmon color of k feldspars with less than 1% blebs of py
H028	102.41	109.2	DI	Diorite, semi rounded feldspars 7% and about 2mm in fine grained green gray groundmass has sharp contact 45 at top of the section and 20 degree at the bottom, silicified at the surface with 7% of disseminated py at 0.20m top of the section with 3 veins at the bottom, one of them carry speck of cp
H028	109.2	110.93	DI	Diorite coarse grained black augite phenocrysts 40%, f core covered with patches salmon color of k feldspars with 45 deg 4mm magnetite vein which carry coarse grained cp at the bottom of the section,
H028	110.93	121.9	DI	Diorite, semi rounded feldspars 7% and about 2mm in fine grained green gray groundmass has sharp contact 45 at top of the section and 45 degree at the bottom, silicified at the surface, almost each meter have magnetite veins about 3 mm with massive py and sometimes with blebs of cp at 10 degree, there is one vein at 116m with epidote and cp at 10 degree

H028	121.9	157.27	DI	Diorite, Coarse grained augite 30%, feldspars partially silicified and contain k-feldspar about 40% of the section, at the depth of 125m, black fine grained texture non magnetic holds 5 cm massive chalcopyrite at sharp contact of 40 degree with diorite, at 127.10m ,4mm vein in a broken slickensided core extent along core with massive cp , py mostly concentrated in fractures and tiny blebs in augite phenocryst, from 152m-156 clay alteration destroyed the main texture to chlorite some remnant of k- feldspar visible
H028	157.27	165	DI	Diorite , strong clay alteration, destroyed the main texture to mostly chlorite, remnant of k-feldspar visible on section, cp from blebs to coarse grain 1 cm eye at 162.9m, from 163m portion of altered main texture about 1m is visible
H028	165	166.28	F	Fault, very soft greenish gray clay, all crumbles easily falls apart
H028	166.28	190.15	DI	Diorite, black hbl phenocryst 10%, feldspars flooded with light brown color of biotite?, silicified with tiny blebs almost rounded less than 1mm of cp in middle of hbl, from 174.16m. 0.50m with clay alteration, at 177m, 0.40m of core broken to angular pieces up to 3 cm (Fault zone),
H028	190.15	202.9	DI	Diorite, Coarse grained augite 30%, feldspars partially silicified and contain k-feldspar 1%, part of section around10%, the texture totally destroyed and made fine grained medium gray texture, cp on core appears as small blebs to patch at 196.90, clay alteration from 199m, 0.90m and stronger clay alteration from 201.20m, 0.70m with calcite veins 3cm to irregular patches
H028	202.9	217.41	DI	Diorite, coarse grained augite 30% ,1.8m at 209 m, the rest altered to fine grained medium gray texture with py blebs disseminated, clay alteration up to 30 cm at 208 .7m, 2m top of section stockwork of 1mm quartz veins

H028	217.41	233.47	DI	Diorite coarse grained green augite 20%, feldspars phenocrysts colored with greenish chlorite alteration, lots of cross cutting fractures on the core and seems to be at the first stage of clay alteration with some specks of cp
H028	233.47	239.47	DI	Diorite, feldspars latched together, silicified at the edges about 40%, some section about 0.50m fine grained dark greenish gray groundmass, blebs of py less than 1% along fractures and disseminated
H028	239.47	241.32	DI	Strong clay alteration. Light green gray
H028	241.32	250.86	DI	Diorite. Fine grained medium gray groundmass with remnant of feldspars partially silicified. Py extended along fractures and also blebs. Distribution is not uniform
H028	250.86	257.86	DI	Diorite. Black augite leached tighter and made black Islands about 5 cm between silicified and partially k-feldspars alteration with specks of disseminated cp, from 255.6m 0.80m of core broken
H028	257.86	261.4	F	Fault, fine gray clay with blocky broken core up to 15 cm. upper contact broken, lower contact at 45 degree
H028	261.4	270	DI	Diorite. Coarse grained augite feldspars 20% in silicified feldspars to 265m, from there the size of phenocryst decrease and make up to 30% to 267.3m. from this point to the bottom of the section augite totally destroyed and make greenish gray ground mass with remnant of feldspar 15%, upper contact 3 cm black magnetite vein with 7% coarse grained py at 10 degree
H028	270	278.23	DY	Dyke. Foliated boxy feldspars in fine grained medium gray groundmass 30%. With speck of chl in middle of them with blebs of light reddish spots 7%
H028	278.23	282.14	F	Fault zone dominated by medium gray clay, block are coarse and angular up to 5 cm, upper contact at 45 degree. Lower contact at 70degree
H028	282.14	294.1	DI	Diorite. Fine grained black groundmass with 3% greenish feldspars up to 3mm with hairline quartz veins up to 2mm. At 287.34 and 293.7 m two veins of epidote-quartz up to 2cm with py and some cp at 10 degree

H028	294.1	307.72	DI	Diorite, green augite phenocrysts partially altered to chlorite and up to 20%, feldspars partially altered to pink k-feldspar, there are some sections augite totally destroyed with 7% feldspar which have sharp contact with diorite at 70 degree up to 20 cm, make 7% of section, py disseminated ,from 303,58 to the bottom three veins of epidote veins with dark red k-feldspar which only one carries cp
H028	307.72	312.1	DI	Diorite. fine grained black groundmass with 3% greenish feldspars of chlorite alteration, and up to 3mm, py is fractures
H028	312.1	320.55	DI	Diorite coarse grained augite 40%, some parts destroyed to gray groundmass, few phenocryst altered to hematite
H028	320.55	330.64	DI	Diorite, medium grained augite 20%,feldspars leached together, having greenish color, augite have foliation and some elongated in that direction, specks of py in augite and fractures 5% and less than 1mm, 0.50m top of the section clay alteration ,upper and lower contact at45 degree
H028	330.64	338.6	DI	Diorite, coarse grained augite up to 3mm 40%, at 335.50 strong clay alteration 1m, py disseminated on section tiny blebs to 4mm along fractures 3%, 0.30m top of the section fine grained silicified diorite at 50 degree with upper section, 1m bottom of the section flooded with k-feldspar 30 cm top is broken
H028	338.6	340.15	F	Fault, almost hole section smashed to green clay with few block up to10 cm, upper contact at 45 lower contact broken
H028	340.15	348.6	DI	Diorite, flooded with salmon color of k-feldspar, cp from blebs to coarse grained around 1%, swarm of hairline quartz vein from top of the section to 344m.0.30m clay alteration at 348.3m, 5 cm patch of massive py with some cp at347.40m
H028	348.6	351.14	DI	Diorite, coarse grained augite 30% up to 3mm anhedral, feldspars have light blueish color, 0.25 m upper contact clay alteration at 70 degree, blebs of py less than 1%
H028	351.14	353.69	F	Fault, green fine clay with few blocks up to 0.14m in the middle of section ,the texture altered to chlorite

H028	353.69	366.59	DI	Diorite, coarse grained augite 30% up to 3mm anhedral, feldspars from top of section to 356m with patches of orange color of k-feldspar covers 60% of rock from that point to 358m followed by dark blue gray around 2m, and the rest to the bottom with light blue color, py in fractures are coarse, with tiny blebs disseminated on core 2%, from 162m to the bottom 3 epidote veins with coarse py and just one speck at the last one
H028	366.59	369.39	DY	Dyke, boxy feldspar 20%, hornblende 5% in fine gray groundmass. 2% of reddish specks Ankerite?
H028	369.39	379.68	DI	Diorite, coarse grained augite 30% up to 3mm anhedral, feldspars tinted with light blue color, small islands of k-feldspar up to 3cm around 2%, 7 epidote veins in section from 2mm to 4 cm, which 4 out of 7 carry cp
H028	379.68	391.12	DI	coarse grained black augite 30% altered to magnetite. Some parts totally 60%, some parts partially, k-feldspars flooded the texture of feldspars to the depth of 359m, epidote as vein or patches 1.2%, cp as disseminated specks or along the veins, the stronger magnetite, the better cp especially at 389.7m. 0.20m of core, from 387, 2m section covered with irregular quartz veins with less than 1% of blebs of cp
H028	391.12	398.06	DI	coarse grained black augite at 3mm 40%, feldspars tinted to green color, tiny blebs of py disseminated 1%, coarser in fractures
H028	398.06	413.31	DI	coarse grained augite 30% with alteration of irregular bands of magnetite which most of them have disseminated py, except for 10 cm band at 404.86m which carry cp, feldspars have patchy k-feldspar 10%, tiny blebs of cp disseminated, especially in k-feldspar zone, from 398-401 core is broken with some portion of clay alteration, from 400.8 to 401.50 boxy feldspars 2mm in a dark gray groundmass 30% (Dyke?)
H028	413.31	421	DI	Coarse grained augite 40%, feldspars tinted with blueish color, 0.30m bottom part of the section with k-feldspar, at 415.50m a band of epidote 10 cm with 5% coarse py at 50 degree

H028	421	424.4	DI	Diorite fine dark green groundmass with gradational contact to black fine grained magnetite which covers 90% of the section, epidote from 10 cm band to irregular patches covers 26% of the section, and flooded with coarse py, only middle portion of epidote at 423m carries about 1% of epidote with coarse grained cp 1mm, upper contact sharp at 20 degree, lower contact at 45
H028	424.4	436.04	DI	Diorite, coarse grained around 40% with greenish color of feldspar, some sections up to at 20 cm feldspars obliterated and with mild magnetic effect, 10 epidote veins with cp from 2mm to 1cm
H028	436.04	461.11	DI	Diorite, augite phenocrysts and feldspars obliterated to fine grained green gray groundmass with mild magnetic effect, remnants of the texture visible with few specks of hematite that occupied augite, some patches of main diorites also on section around 5%, chlorite alteration enveloped around quartz veins up to 1 cm, from 437.69m 1.5m of core fine grained silicified light green color
H028	461.11	466.22	DI	Diorite. green Augite almost destroyed, dominated by fine grained feldspars tinted green , core very broken and partially altered to clay alteration, upper contact almost at 45, 16 cm quartz vein at the top of the section
H028	466.22	492.55	DI	Diorite, augite phenocrysts altered to black magnetite from single phenocryst to small islands or 10 cm bands which cover 90% of the section, , from 481m-483.41m with patches and two barren epidote veins, main texture coarse grained augite 60%, with light greenish feldspar
H028	492.55	496.84	DI	Diorite with 5% medium grained augite in a fine grained olive color groundmass. About 3% white reddish semi round blebs ankerite?
H028	496.84	504.75	DI	Diorite Coarse grained black augite up to 60% altered to magnetite patches about 50%. Feldspars tinted with greenish color of chlorite alteration

<b>Hole:</b>	H029	<b>Eastings:</b>	347093	Elevation: 979m
<b>Logged by:</b>	Parviz Rajaei	<b>Northings:</b>	6453553	
<b>Sampled by:</b>	Parviz Rajaei	<b>Dip:</b>	-55	
<b>Depth:</b>	236.22m	<b>Azimuth:</b>	150	
<b>Hole #</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Rock type</b>	<b>Description</b>
H029	0.00	1.52	CA	Casing
H029	1.52	8.36	AND	Andesite hbl phenocrysts 10% more than 2mm altered to light green of chlorite. Feldspars 15% less than 1mm in a fine groundmass, iron oxide on fractures
H029	8.36	21.41	AND	Andesite, hbl phenocrysts partially to totally obliterated and made greenish gray groundmass with medium grained anhedral feldspars 7%, from 14.7m alteration intensify and make fine grained green gray texture with less than 1% hbl, from that point to the bottom of the section alteration is patchy with 5% of 2mm long feldspar, at 12.90 cp along dark green 2mm vein . at 16.26m ,coarse grained cp along 2cm quartz feldspar vein at 18.24 Andesite disseminated blebs of cp in hbl phenocrysts
H029	21.41	24.72	AND	Andesite, coarse grained hbl 3%, anhedral feldspars 15% in a fine grain light gray groundmass/ lower contact at 10 degree
H029	24.72	41.15	AND	Andesite, all phenocrysts obliterated to a fine grained dark gray groundmass 90%. 0.30m of main texture at 31m about 0.30 cm of porphyry coarse grained hbl up to 3mm with blebs of fine grained cp in the middle 3%, and anhedral fine grained boxy feldspar 15%, hairline quartz calcite feldspars cross cutting each other
H029	41.15	48.00	AND	medium to fine grained feldspars 15% in a fine grained gray groundmass, a band of q-feldspar at 45.19 carry cp
H029	48.00	70.50	AND	Andesite, all phenocrysts obliterated to a fine grained dark gray groundmass with some sections about 13% of section especially from 55.60 to 57.59m which is about 15% medium to fine grained boxy feldspars and less than 1% hbl .

H029	70.50	80.15	AND	Andesite, coarse grained hbl 3% up to 3mm, anhedral feldspars destroyed to a fine grain light gray groundmass, some portions, 14% of total texture obliterated, from 76.62m to 80.20m clay alteration, from 76 to 80.20m core is broken, lower contact at 70 degree
H029	80.15	98.42	AND	medium to fine grained feldspars 15% in a fine grained dark gray groundmass covers 97% of the section, the main texture 3% coarse grained hbl phenocrysts with 15% boxy medium feldspars
H029	98.42	108.20	AND	medium to fine grained feldspar 20% with 3% coarse grained hbl cover 90% of the section, some sections up to 0.70 m, fine grained medium gray groundmass
H029	108.20	116.34	AND	Coarse grained hbl 2% in a fine to medium gray groundmass. From 111.10m, 0.60m of core altered to beige color (sericite?) with quartz veins up to 2 cm at 50 degree, there are two groups of veins, quartz veins mostly at 50 degree with 1-2mm thickness, and hairline veins which are younger and cross quartz veins
H029	116.34	121.69	AND	fine grained light green groundmass 90% with some patches of medium gray fine grained groundmass upper contact sharp at 45 degree, patches have some kind of gradational contact, lower contact broken 7cm quartz vein at 119.87m
H029	121.69	132.69	AND	medium boxy feldspar 20%. With 2% coarse grained hbl in a fine medium gray groundmass. Light green fine grained alteration interbedded with contacts of 70 degree in section 12%
H029	132.69	148.58	AND	medium boxy feldspar 20%. With 2% coarse grained hbl in a fine medium gray groundmass. In parts of the section feldspars obliterated to light green groundmass with 3% black hbl between them 30%, some parts with light green fine grained groundmass at with some bands at 70 degree 15%, from 137.50 parts of section with foliated hbl which carry about 1% blebs of cp, upper contact gradational lower contact at 45 degree with green alteration

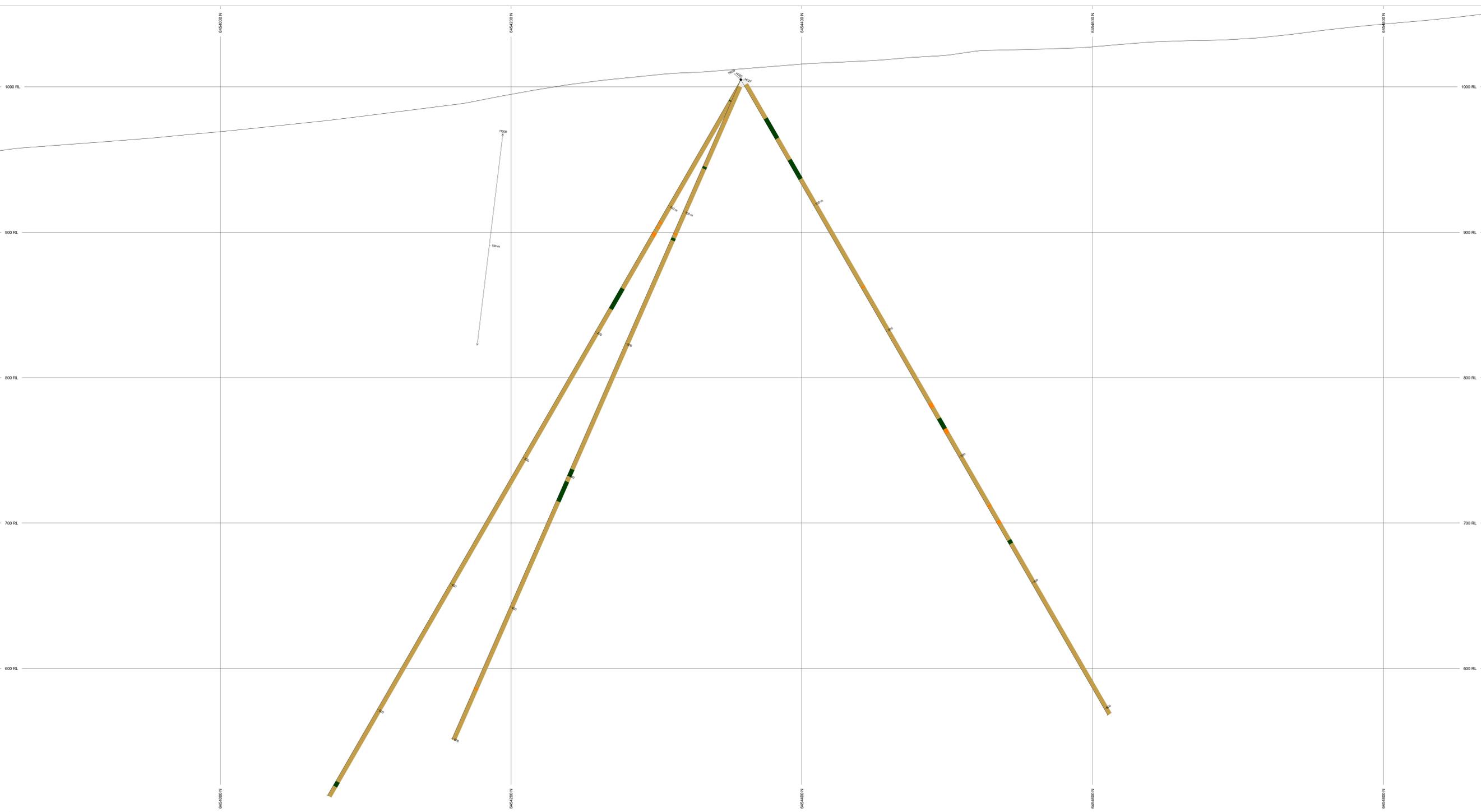
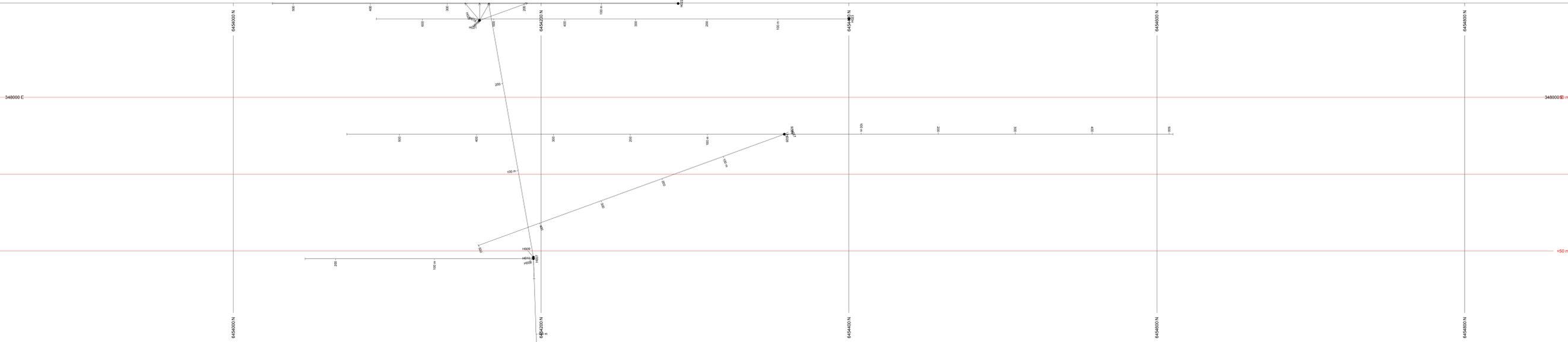
H029	148.58	153.00	AND	boxy light blue feldspar 25% in fine to medium grained gray groundmass. 2% coarse grained phenocryst of hbl altered to chlorite and sericite upper contact sharp at 50 degree. Lower contact gradational, at 149.87m, 0.30m Of 3% black hbl in light green fine groundmass. upper contact follows the fracture at 50 lower contact at 50
H029	153.00	169.46	AND	coarse grained remnant of altered hbl phenocrysts 10% in fine gray dark gray ground mass, feldspars about 20%, mostly obliterated and are patchy on rock especially at the bottom of the section, small section 0.70m from 157m have fine grained light green color
H029	169.46	191.10	AND	Coarse Hornblende phenocrysts 3% altered to chlorite and sericite in a fine dark brown gray groundmass. Patches of main texture of core have boxy feldspar 20%. Greenish gray silicified alteration patches up to 0.50m covers 20% of the section, stronger around the veins
H029	191.10	210.39	AND	Boxy foliated feldspars 50% altered to k-feldspar with 1% of hbl, from 198 -200 m the texture totally obliterated to fine to medium grained gray groundmass, k-feldspar intensifies from 202 to 205.4m with blebs of py
H029	210.39	216.26	AND	Fine Dark brown gray groundmass with patches of silicified green alteration 35%. 1.30m top of the section coarse grained boxy feldspars up to 3mm 30% with sharp contact of 45 at the top of the section
H029	216.26	223.19	AND	Feldspars, boxy medium grained in fine grained light gray to brownish groundmass 20%, hbl phenocrysts altered to chlorite 2%, with patchy light gray alteration 15%
H029	223.19	230.52	AND	Feldspars, boxy medium grained in fine grained light gray to brownish groundmass30% altered to K-feldspar, hbl phenocrysts almost destroyed with about 5% remnants of black spots
H029	230.52	236.22	AND	Feldspar boxy medium to coarse grained altered to light gray silicified alteration which covers 80% Of the section0.65 m at the bottom clay alteration with upper contact of 20 degree

<b>Hole:</b>	H030	<b>Eastings:</b>	347093	Elevation: 979m	
<b>Logged by:</b>	Parviz Rajaei	<b>Northings:</b>	6453553		
<b>Sampled by:</b>	Parviz Rajaei	<b>Dip:</b>	-55		
<b>Depth:</b>	150.89m	<b>Azimuth:</b>	230		
<b>Hole #</b>	<b>From (m)</b>	<b>To (m)</b>	<b>Rock type</b>	<b>Description</b>	
H030	0	1.52	CA	Casing	
H030	1.52	19.41	AND	Andesite feldspars 30% .medium grained in fine grained green gray color tinted green by chlorite alteration, hbl phenocrysts 1%, iron oxides on fractures	
H030	19.41	24.5	AND	Andesite feldspars 30% .medium grained in fine grained gray color , coarse grained hbl phenocrysts 10%, iron oxides on fractures	
H030	24.5	38.7	AND	Andesite feldspars 30% .medium grained in fine grained gray color , remnant of altered coarse grained hbl phenocrysts 1%, calcite on fractures, from 27-30m texture of rock destroyed to a fine grained dark gray groundmass	
H030	38.7	50.86	AND	fine grained dark gray ground mass which covers 90% of the section. Main texture 15% of medium anhedral boxy feldspar with 1% hbl in fine grained gray groundmass	
H030	50.86	54.91	AND	Andesite feldspars 30% .medium to coarse grained in fine grained light green color , coarse grained hbl phenocrysts 5%, specks of cp in quartz veins, lower contact sharp at 10 degree	
H030	54.91	59.43	AND	hbl coarse grained phenocrysts 20% in, medium grained boxy feldspars 10% partially obliterated to a fine grained brown groundmass, cp specks at the edge of quartz veins, at 59.23m coarse grained cp 2mm disseminated	
H030	59.43	64.33	AND	Andesite, the texture destroyed by light green fine grained alteration 0.70m top of the section 20% of coarse grained hbl phenocrysts in green groundmass	
H030	64.33	81.47	AND	Andesite, the texture destroyed by dark gray fine grained light green alteration with remnant of feldspars, the section have 10% of coarse grained hbl around 20% phenocrysts in flooded green groundmass	

H030	81.47	97.56	AND	hbl medium to coarse 5% in a fine grained light green groundmass, from top of the section core is broken to the depth of 86m with stock work of hairline quartz veins
H030	97.56	104.9	AND	light blue boxy feldspar 20%. In a fine grained groundmass, part of section with remnants of hbl 2%. In a fine gray groundmass covers 10% and about 20% is fine grained groundmass, from 104m.0.50m of core broken to angular pieces around 2cm
H030	104.9	113.3	AND	Boxy feldspar moderately altered to k-feldspar in a brown groundmass. Upper contact sharp at 20 degree, lower contact gradational
H030	113.3	143.05	AND	fine grained dark gray groundmass with remnant of hbl phenocrysts around 10%. Some of them altered to chlorite and most of them altered to white specks less than 1mm, about 20% of section fine grained groundmass, from 129.63-132.90 m with greenish alteration, from 141.43 remnant of hbl phenocryst up to 20% altered to chlorite and sericite?
H030	143.05	150.87	AND	medium grained feldspar 10% in fine grained ground mass covers about 50% of the section, interbedded with green fine grained groundmass with 10% coarse grained hbl. Patches of texture is fine grained groundmass

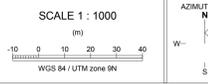
## **APPENDIX 4 – GEOLOGICAL AND ANALYTICAL SECTIONS**

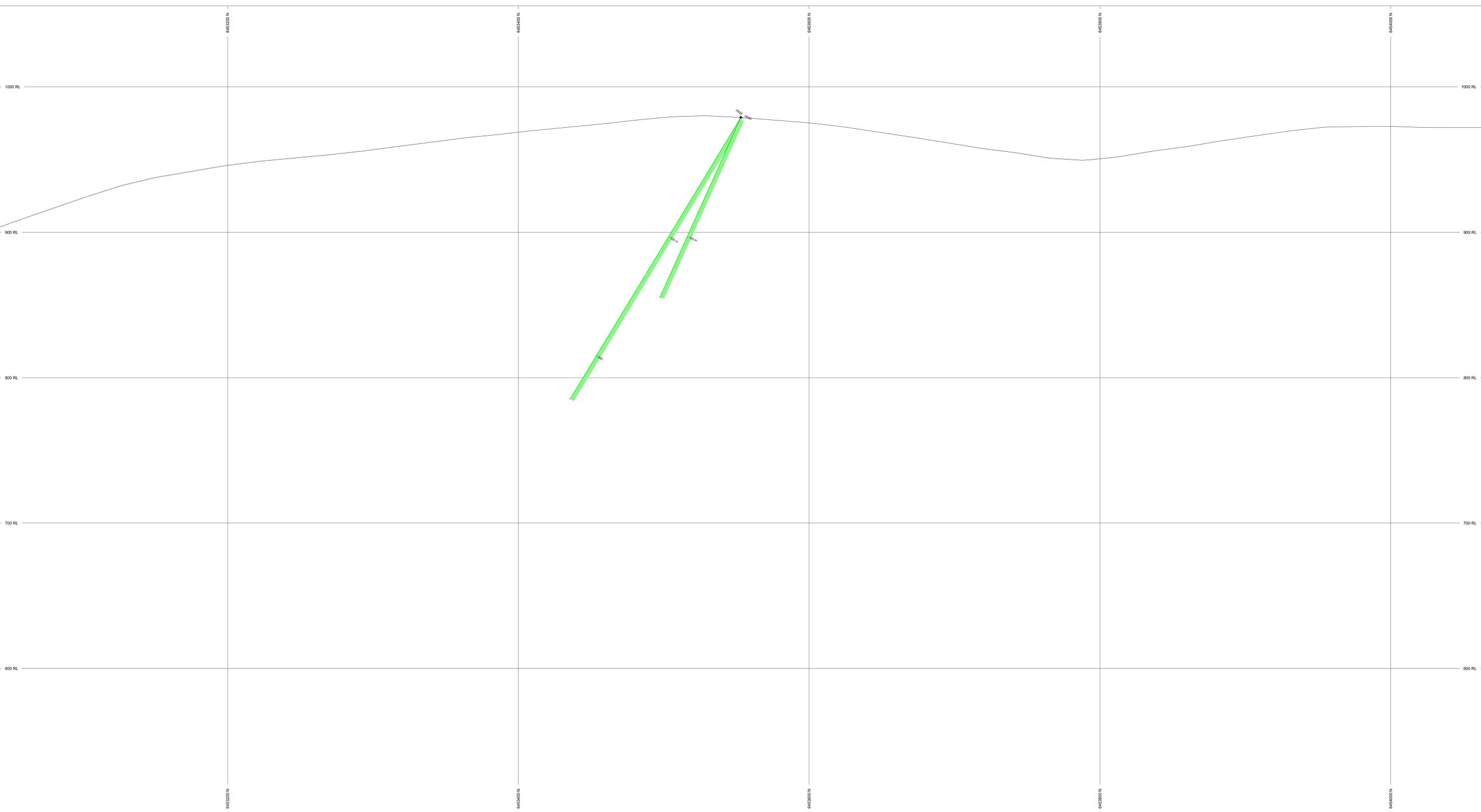
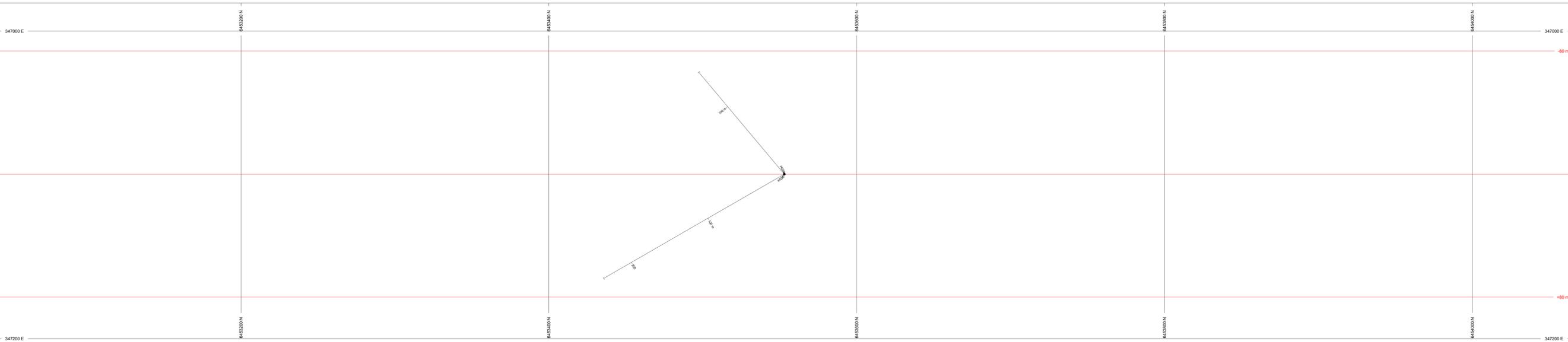
### ***4.1 Geological Sections – Lithology***



ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	AND DY	Andesite Dyke	
	CA	Casing	
	DI	Diabase	
	DY	Dyke	
	F	Fault	

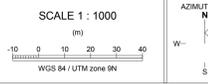
SECTION SPECS:  
REF. PT. E, N 348050 m 6454358 m  
EXTENTS 1021 m 556.8 m  
SECTION TOP, BOT 1026 m 498.9 m  
TOLERANCE +/- 50 m



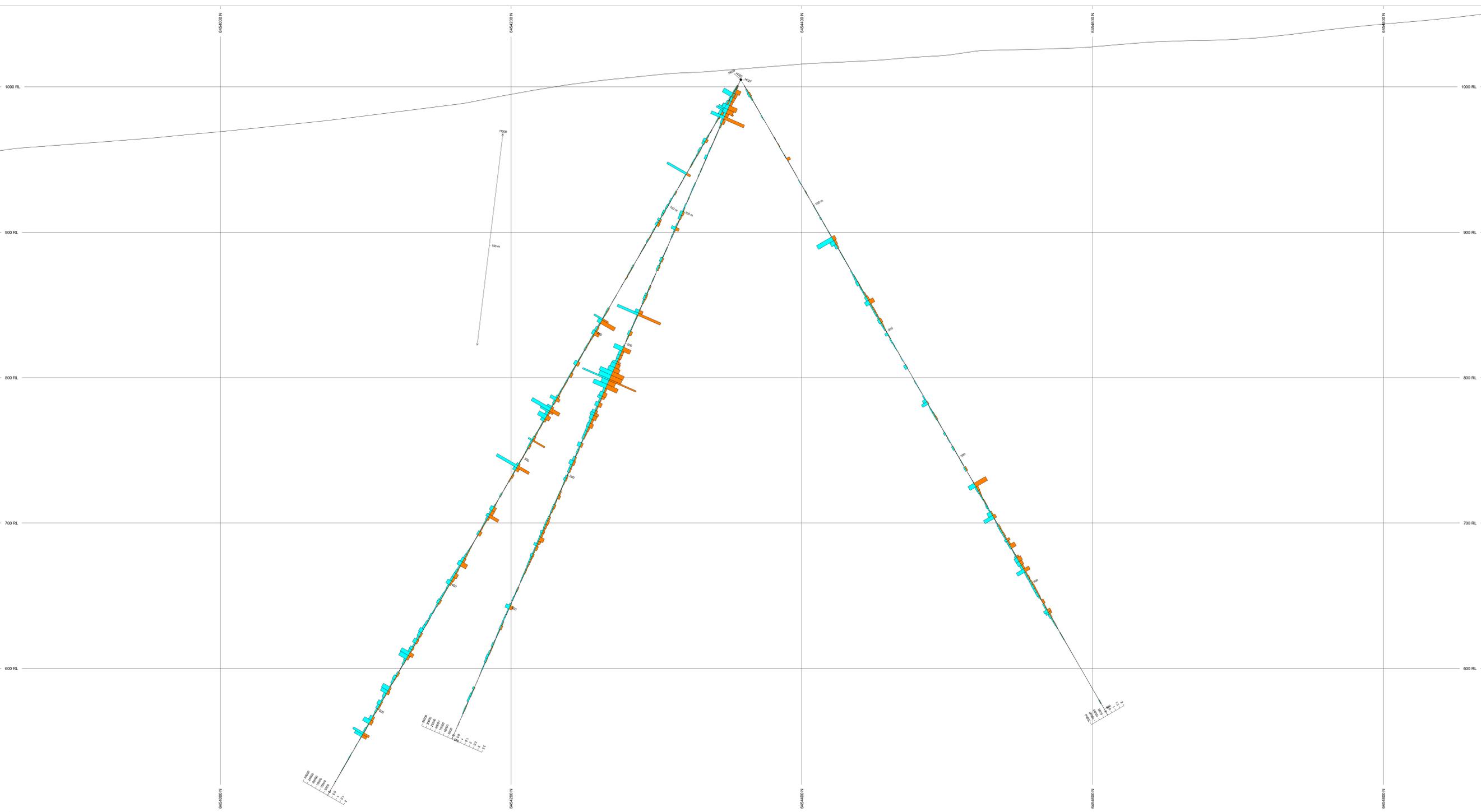
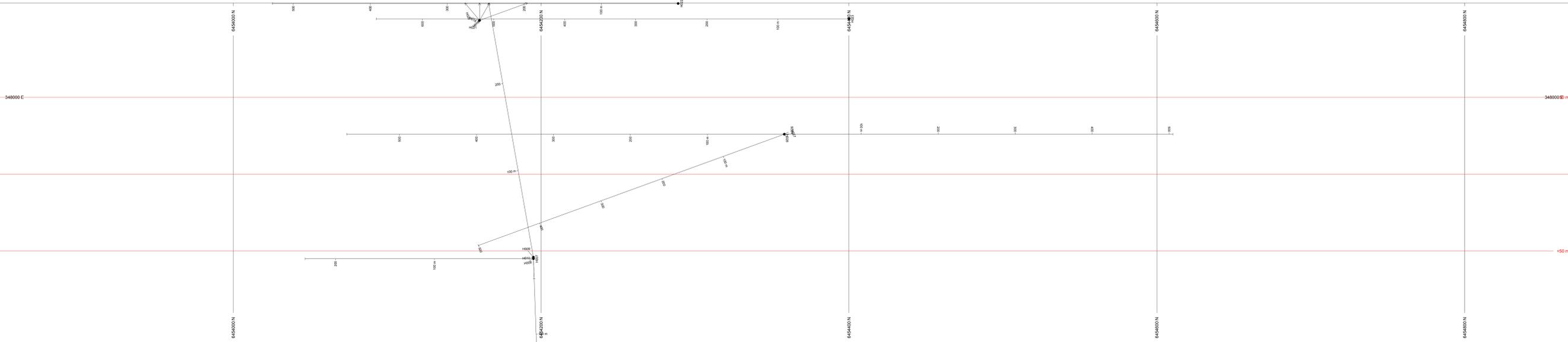


ROCK CODES	PAT	LABEL	DESCRIPTION
Lithology	AND	CA	Andesite Casting

SECTION SPECS:  
REF. PT. E, N 347093 m 6453553 m  
EXTENTS 1021 m 556.8 m  
SECTION TOP, BOT 1026 m 498.9 m  
TOLERANCE +/- 80 m

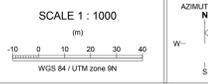


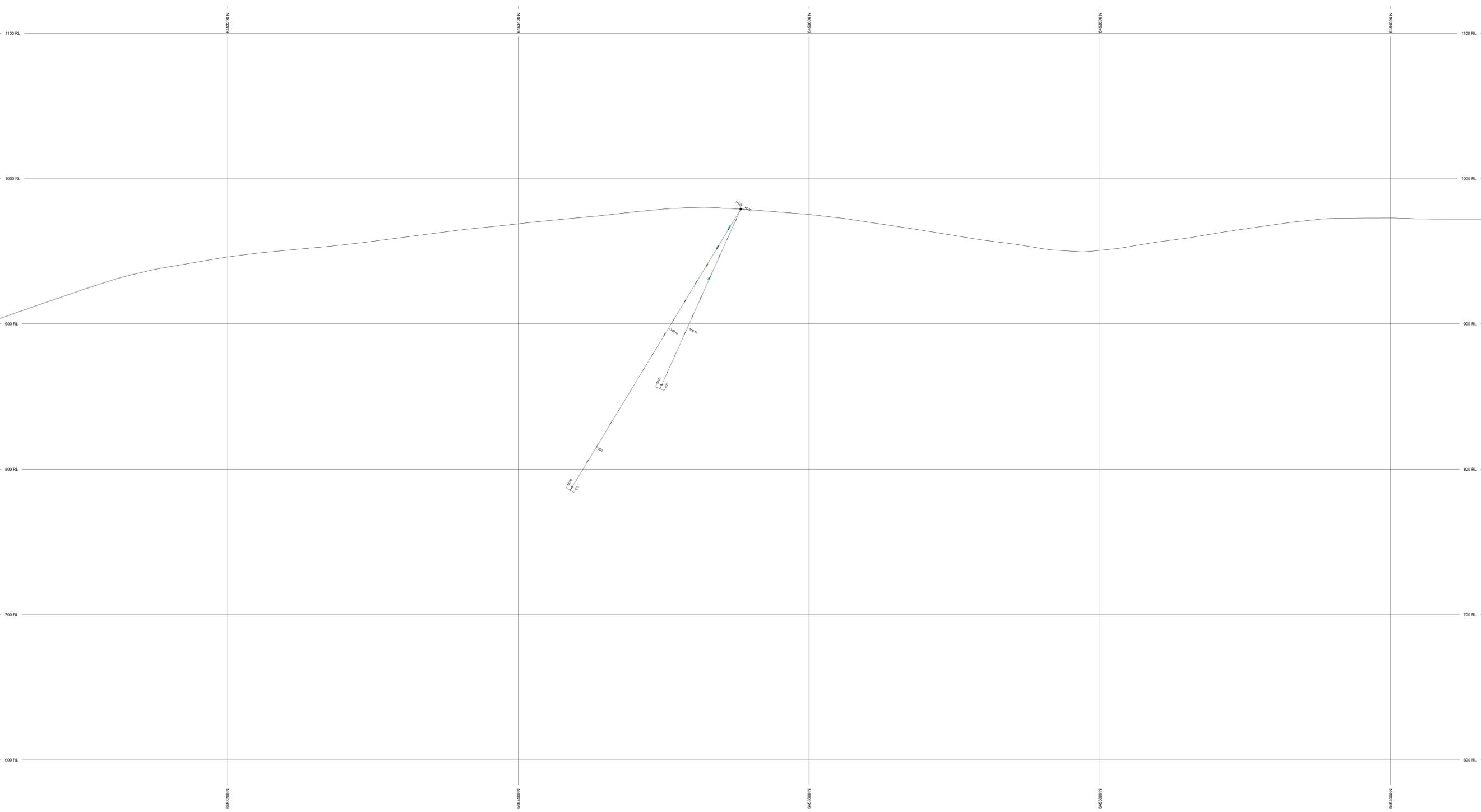
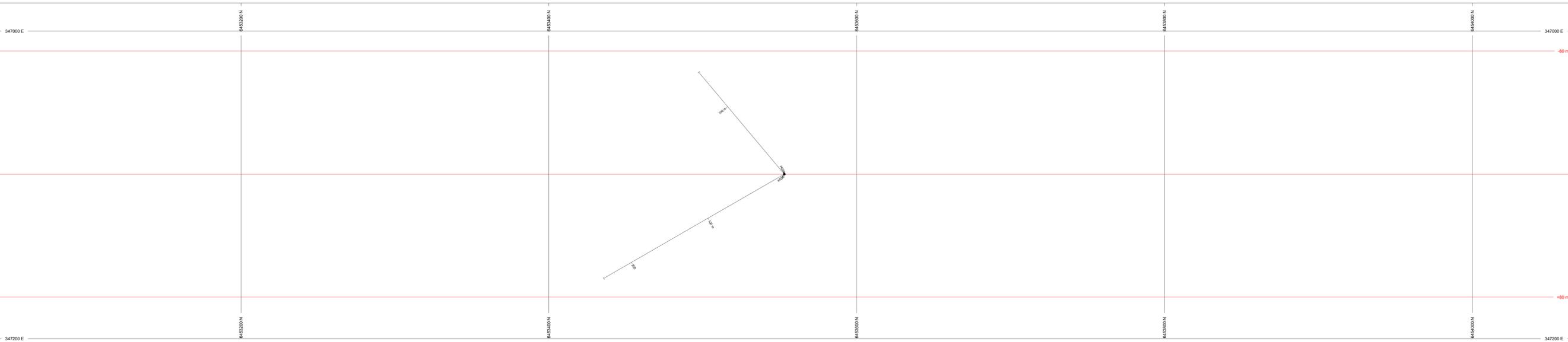
## ***4.2 Analytical Sections – Gold and Copper***



BAR GRAPHS L/R COL  
 Au, ppm R █  
 Cu, ppm L █

SECTION SPECS:  
 REF. PT. E, N 348050 m 645435 m  
 EXTENTS 1021 m 556.8 m  
 SECTION TOP, BOT 1026 m 498.9 m  
 TOLERANCE +/- 50 m





BAR GRAPHS	L/R	COL
As <sub>2</sub> ppm	R	Orange
Cu <sub>2</sub> ppm	L	Blue

SECTION SPECS:  
REF. PT. E, N 347093 m 643353 m  
EXTENTS 1021 m 556.8 m  
SECTION TOP, BOT 115 m 661.8 m  
TOLERANCE +/- 80 m

