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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)]:

TOTAL COST: 322,699.00

AUTHOR(S): Brian May, Chris LeClair

SIGNATURE(S): (Chris Leclair)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-697

YEAR OF WORK: 2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5646197

PROPERTY NAME: Thule Copper

CLAIM NAME(S) (on which the work was done): 237648,514635

COMMODITIES SOUGHT: Copper, Iron

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Kamloops

NTS/BCGS: 92I06E, 92I03E

LATITUDE: 50 ° 15 ' 7 " **LONGITUDE:** 121 ° 2 ' 8 " **(at centre of work)**

OWNER(S):
1) Nicola Mining Inc.
2)

MAILING ADDRESS:
3329 Aberdeen Road, Lower Nicola B.C. V0K 1Y0

OPERATOR(S) [who paid for the work]:
1) Nicola Mining Inc.
2)

MAILING ADDRESS:
3329 Aberdeen Road, Lower Nicola B.C. V0K 1Y0

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Craigmont, Copper, Nicola Volcanics, Kingsvale, Thule, Magnetite, Skarn, Prophyry, Epidote, Diopside, Garnet, Rhyolite, Limestone

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: AR-28119, AR-27390, AR-36141, AR-29449, AR-22621.

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	2 km	514653	30636
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core	1063.66 m	237648, 514635	248,317
Non-core			
RELATED TECHNICAL			
Sampling/assaying	1063.66 m	237648, 514635	23,746
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)	5.0 km	514635	20,000
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	322,699

BC Geological Survey
Assessment Report
36844

DIAMOND DRILLING & GEOCHEMICAL ASSESSMENT REPORT

On the

THULE COPPER PROPERTY
Southern British Columbia

Tenure Nos: 504393, 504396, 504398, 504489, 507486, 509453, 509454, 512251, 512431, 514486, 514583, 514635, 514636, 515305, 515306, 515307, 515308, 515316, 515317, 517647

120°55'14" WEST LONGITUDE 50°12'28" NORTH LATITUDE
648,250mE and 5,563,600mN
UTM NAD83 Target 10,
NTS Map Sheet No. 92I/02

For

Nicola Mining Inc.
3329 Aberdeen Road
Lower Nicola, BC, V0K 1Y0

Prepared by:

Brian May, P.Geo.
10670 E 39th Place
Yuma, AZ 85365

&

Chris LeClair
1505 Mt. Dufferin Ave
Kamloops, British Columbia
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August 18, 2017

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SUMMARY OF WORK DONE

The Thule Copper Property claims are 100% owned by Nicola Mining Inc. and is situated along the boundary between the Guichon Batholith, Nicola Group, and Spences Bridge Group.

During 2016, the Nicola Mining geological team completed 5 diamond drill holes at 3 targets, collected 53 rock samples through detailed geochemical rock chip-channel sampling, and mapped several historic MINFILE showings on the Thule property. The team also continued compilation of the Craigmont diamond drill hole database which so far constitutes 4,106 diamond drill holes including both underground and diamond drill holes, the majority of which were completed during the mine's operating life between 1961 and 1982.

Five diamond drill holes were completed on the Eric, Embayment and Titan Queen targets. Both the Eric and the Titan Queen targets correspond with known MINFILE showings, while the Embayment target corresponds with an underground target defined by Craigmont Mines Limited during the operation of the Craigmont mine.

Detailed chip channel sampling and mapping was completed proximal to several known showings: the WP, Titan Queen, Eric, and Marb. Anomalous copper values from the WP target included 0.37% copper over 10 metres at WP Trench 1 and 0.71% copper over 4 metres at the WP shaft. The Titan Queen trenches returned values of 0.30% copper over 16 metres at Titan Queen Trench 1, 0.56% copper over 10 metres at Titan Queen Trench 2, and 0.74% copper over 6 metres at Titan Queen Trench 3. Sampling at the Eric Shaft returned 0.52% copper over 9 metres. Detailed chip sampling at the Marb showing returned values of 0.054% copper over 8 metres. All sampling was completed as 1-2 metre chips.

The drill program was highlighted by DDH-THU-002, completed at the Embayment target which consisted of an intercept of 1.11% copper over 85.92 metres starting at 300.65 metres depth.

Intercepts at both the Eric and Titan Queen targets consisted of near-surface copper mineralization. Drilling at the Eric target returned highlights of 2 metres of 0.32% copper, 13.88 metres of 0.17% copper and 14.07 metres of 0.15% copper in DDH-THU-001. Highlights at Titan Queen included 1.78 metres of 1.3% copper (DDH-THU-004) and 2.9 metres of 0.55% copper (DDH-THU-003).

INTRODUCTION

General Statement

Nicola Mining Inc.'s Thule Copper Property is situated in the south-central part of the Quesnel Trough in British Columbia, a prolific geologic terrane which hosts past and producing mines with precious and base metals commodities.

The four main goals of the 2016 exploration program were:

1) To detail map known historic trenches and shafts on the Thule Property. The intent of the detailed mapping was to better understand the geological controls.
2) Drill test the Eric, Embayment and Titan Queen targets.
    a. Drilling from 1973 and 1974 in the Eric target outlined near-surface copper mineralization. Mineralization at the Eric target is exposed in one historic shaft/pit from the 1930's.
    b. Drilling in the Embayment Target in 2005 was abandoned due to bad ground conditions. The casing for AB-02 remained in the ground for re-entry to test the Embayment Target.
    c. Drilling at Titan Queen in 1971 intersected near surface copper mineralization that was exposed in 4 historic trenches from the 1930's.
3) Continue data compilation of historic drill data, including all underground drill locations and selected assay and lithological intervals. The overall goal is to have a complete digital database of all assay and lithology intervals.
4) To photo-catalog and re-log historic drill core from the Craigmont mine, focusing on the Embayment, Titan Queen, and Eric targets.

The 2016 exploration consisted of 2 field components. Rock sampling and detailed mapping occurred between April and June 2016. The diamond drill program began on June 30, 2016 and finished on August 4th, 2016.

Location and Access

The Thule Copper Property is located approximately 14 kilometers northwest of the city of Merritt, in the Nicola region of British Columbia (Figure 1).

The Thule Copper Property claims are accessible from several routes. The Gordon Creek Forest Service Road is the best access road from the west. This forest service road originates from Highway 8 which is the major highway linking Merritt to Spences Bridge. To access the property from the south-east, there are a series of logging roads originating near the Craigmont Mine that need to be travelled. The easiest way to access the property is by travelling north on the Aberdeen Forest Service Road, and turning left (west) along the Stumbles Creek Forest Service Road.

The NTS map sheets of the claims are 92I06E and 92I03E, while the BCGS sheets are 92I025 and 92I026. The approximate geographical coordinates are 50°15'7" N and 121°2'8" W.

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Figure 1. Thule Property Location Map (Scale 1:500,000)

Physiography and Vegetation

The Thule Copper-Iron Property is situated within an upland plateau area between approximately 800 and 1600 metres elevation, and is underlain by a thick blanket of till and glaciofluvial material. The forest is comprised of lodgepole pine and locally fir, birch, poplar and spruce, and grass covers the forest floor and open swampy areas. The area has burnt several times, and logging activity in response to pine beetle infestation is on-going. The area is characterized by an interior climate; temperatures range from -40 to +40 degrees centigrade, and 50-100 cm of precipitation, occurs mostly as snow in the winter months.

Overburden ranges from nil to very thin (<1 m) on ridge tops and knolls, to deposits tens of meters thick in larger valley bottoms and lake filled depressions. Quaternary mapping by the British Columbia Geological Survey (BCGS) indicates that regional ice movement was from the north-northwest. Local deviations to this trend were influenced by some of the larger valleys.

Mineral Tenures

Nicola Mining Inc. has 100% ownership of all 21 mineral tenures in the property, under the tenure ID number 282385 (Table 1). The claims were acquired by Huldra Properties Inc. (a subsidiary of Nicola Mining Inc.) in 2011. The Thule Copper Property consists of 21 mineral tenures and 10 mineral leases registered under the Mining Titles Online (MTO) system with a total area of 10,084 hectares (Figure 2).

Figure 2. Thule Property Mineral Tenure Map (Scale 1:54,090)

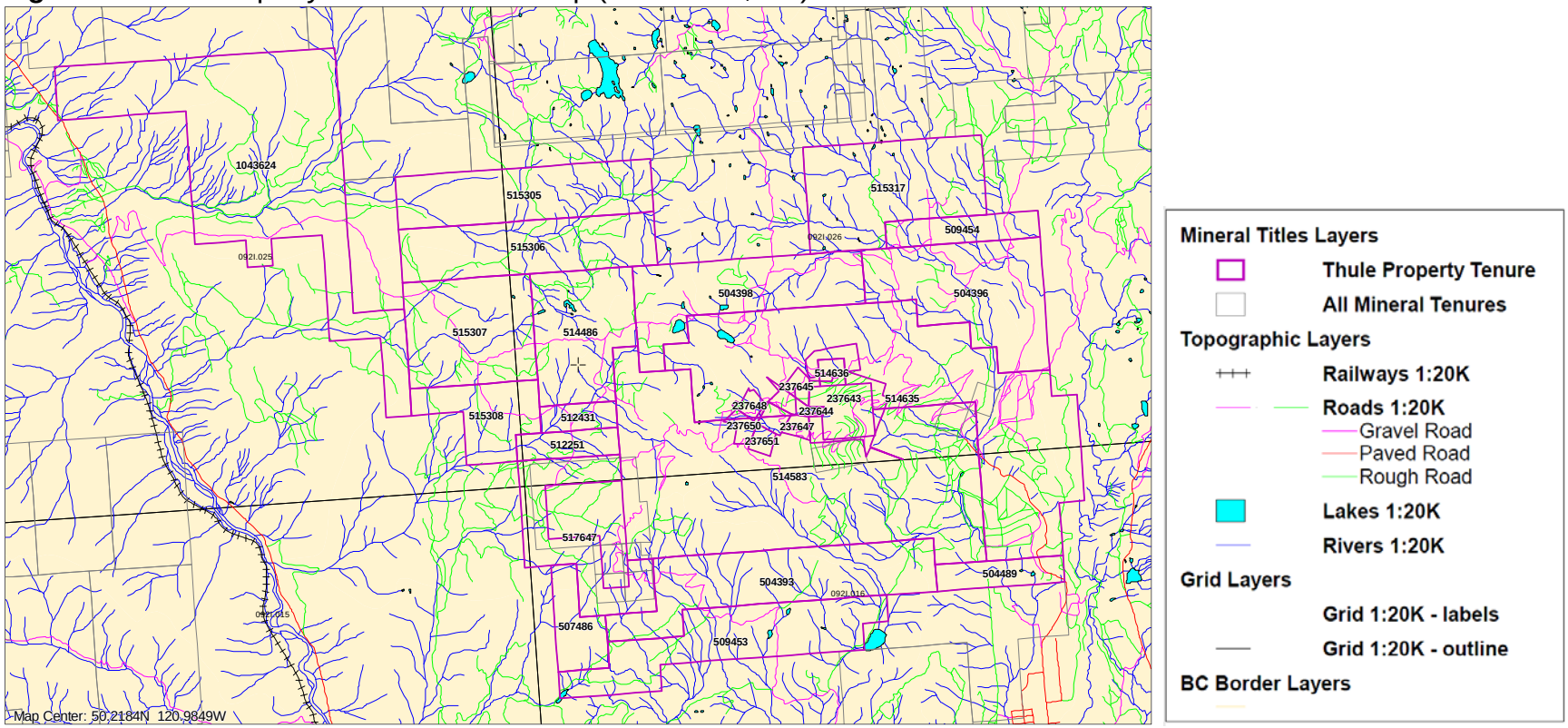

Table 1. Thule Property Mineral Tenures & Leases (as of May 31, 2017)

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
237642		282385 (100%)	Mineral	Lease	092I016	1958/JUN/12	2018/JUN/12	GOOD	39.27
237643		282385 (100%)	Mineral	Lease	092I026	1958/NOV/12	2018/NOV/12	GOOD	179.21
237644		282385 (100%)	Mineral	Lease	092I026	1960/AUG/19	2018/AUG/19	GOOD	4.33
237645		282385 (100%)	Mineral	Lease	092I026	1960/OCT/05	2018/OCT/05	GOOD	17.98
237646		282385 (100%)	Mineral	Lease	092I026	1960/OCT/05	2019/OCT/05	GOOD	19.4
237647		282385 (100%)	Mineral	Lease	092I026	1960/OCT/05	2018/OCT/05	GOOD	14.66
237648		282385 (100%)	Mineral	Lease	092I026	1962/JAN/22	2018/JAN/22	GOOD	15.88
237649		282385 (100%)	Mineral	Lease	092I026	1962/JAN/22	2018/JAN/22	GOOD	19.51
237650		282385 (100%)	Mineral	Lease	092I026	1962/JAN/22	2018/JAN/22	GOOD	20.23
237651		282385 (100%)	Mineral	Lease	092I026	1962/JAN/22	2018/JAN/22	GOOD	16.88
504393	MONT 1	282385 (100%)	Mineral	Claim	092I	2005/JAN/20	2021/MAY/30	GOOD	517.254
504396		282385 (100%)	Mineral	Claim	092I	2005/JAN/20	2021/JUN/01	GOOD	496.136
504398	MONT 3	282385 (100%)	Mineral	Claim	092I	2005/JAN/20	2021/JUN/01	GOOD	434.086
504489	MONT 4	282385 (100%)	Mineral	Claim	092I	2005/JAN/21	2021/MAY/30	GOOD	103.454
507486	MONT 5	282385 (100%)	Mineral	Claim	092I	2005/FEB/18	2021/MAY/30	GOOD	124.152
509453	MONT 6	282385 (100%)	Mineral	Claim	092I	2005/MAR/22	2021/MAY/30	GOOD	455.266
509454	MONT 7	282385 (100%)	Mineral	Claim	092I	2005/MAR/22	2021/MAY/30	GOOD	124.009
512251	MONT 8	282385 (100%)	Mineral	Claim	092I	2005/MAY/09	2021/MAY/30	GOOD	82.72
512431	MONT 9	282385 (100%)	Mineral	Claim	092I	2005/MAY/11	2021/JUN/01	GOOD	62.035
514486	MONT	282385 (100%)	Mineral	Claim	092I	2005/JUN/14	2021/JUN/01	GOOD	372.106
514583		282385 (100%)	Mineral	Claim	092I	2005/JUN/16	2021/JUN/01	GOOD	1592.614
514635		282385 (100%)	Mineral	Claim	092I	2005/JUN/17	2021/JUN/01	GOOD	1344.12
514636		282385 (100%)	Mineral	Claim	092I	2005/JUN/17	2021/JUN/01	GOOD	20.677
515305	MONT 100	282385 (100%)	Mineral	Claim	092I	2005/JUN/26	2021/MAY/30	GOOD	413.258
515306	MONT 101	282385 (100%)	Mineral	Claim	092I	2005/JUN/26	2021/JUN/01	GOOD	413.329
515307	MONT 102	282385 (100%)	Mineral	Claim	092I	2005/JUN/26	2021/JUN/01	GOOD	413.434
515308	MONT 103	282385 (100%)	Mineral	Claim	092I	2005/JUN/26	2021/JUN/01	GOOD	206.774
515316	MONT 104	282385 (100%)	Mineral	Claim	092I	2005/JUN/27	2021/MAY/30	GOOD	495.96
515317	MONT 105	282385 (100%)	Mineral	Claim	092I	2005/JUN/27	2021/MAY/30	GOOD	495.958
517647		282385 (100%)	Mineral	Claim	092I	2005/JUL/13	2021/MAY/30	GOOD	289.606
1043624	MONTWEST	282385 (100%)	Mineral	Claim	092I	2016/APR/19	2021/APR/19	GOOD	1280.864

Historical Background

The earliest known exploration on the Thule property occurred near the Eric showing between 1935 to 1939 and consisted of a series of trenches and an 8x6x7 foot shaft. It is speculated that work occurred at the Titan Queen showing around the same time, but the author has been unable to find historical records to validate the time frame of this work.

The property lay dormant until 1954 when Craigmont Mines Limited staked 14 core mineral claims which were then immediately expanded to 150 claims. In 1956, a soil geochemical and ground magnetometer survey on the Merrell claims would ultimately lead to the Craigmont discovery. The first drilling began in 1957 with hole S-15 being the discovery hole intersecting 195 metres of over 4% copper in the No 1 body.

In November 1957, Canadian Exploration Ltd. (Canex), Noranda Exploration and Peerless Oil and Gas optioned the property and formed a private company called Birkett Creek Mine Operators. This operating group was responsible for the construction and development of the open pit, underground development and mill facilities. In January 1961, the mill was optioned back to Craigmont Mines Limited. The mill operated at 4000 tons (3600 metric tonnes) per day producing copper concentrate. Open-pit mining occurred from 1961 to 196, with small tonnages from the underground operation. From 1967 onwards until the closing of the mine in 1982, mining was focused solely on underground operations (Cuttle, 2012). Additional exploration targets throughout the district and in the immediate mine vicinity were pursued with an extensive exploration program between 1977 to 1979 by the Craigmont Mines geological team. Table 2 lists an approximate estimate on both underground and drilling activities over the lifespan of the Craigmont Mine.

Regionally, from 1957 onwards until 1974, a wide range of companies and individual title owners completed grassroots exploration through geophysical, geochemical and geological surveys with lesser trenching and drilling. Table 3 is a brief synopsis of exploration efforts in the general vicinity of the Thule claims. The historical claim outlines around the Thule property have been digitized from assessment reports and are shown in Figure 3 below.

The Craigmont Mine operated from 1961 until 1982, producing approximately 34 million tonnes of ore at 1.28% copper (Stargaard, 1995), with minor amounts of gold and silver recovered. About 600,000 tonnes of media grade iron concentrate remained unsold when mining was complete (NMI-1982). From 1982-1992, Craigmont and other groups shipped up to 60,000 tonnes of clean metallurgical magnetite from its stockpile to coal producers in Canada and the United States for use in coal flotation purposes. Appendix II outlines mining and milling production at Craigmont.

Bristow (1985), a former Craigmont mine geologist hypothesized several targets on the Craigmont property that deserved follow-up exploration. These include:

- No. 4 body in the Embayment area. Skarn target between S-100 (0.41% copper over 149 metres) and underground hole 30-302, which may be large enough to contain 10 million tons (9.1 million metric tonnes) of mineralized rock (non NI 43-101 compliant estimate). This drill hole was followed up with S-124 intersecting 2-8% iron and 0.1 to 0.4% copper and confirmed the downward continuation of the steeply dipping epidote-actinolite skarn.
- No. 3 body on the west end of the Mine block. No. 3 type reserves between section 6565E and 8015E indicate a non NI 43-101 compliant estimate of 1.29 million tons (1.17 metric tonnes) of 1.53% copper. Mineralization in this body is described as being hosted in highly fractured, silicate-rich rock with low iron content.
- Mineralization left in the sub level cave of the Mine block. Estimates of 60 million tons (54 million metric tonnes) of 0.4% copper in an extensive mineralized "economic hanging wall". These values were not confirmed by reserve calculations and are not compliant with NI 43-101.
- Noranda-Cressy block. Drill holes S-117 and S-118 contain native copper mineralization and suggest close proximity to undiscovered mineralization. 2 additional anomalies were suggested for further exploration: a magnetic anomaly which extends ~750 metres northeasterly from S-106, and the area adjacent to S-117 and possibly S-118.

The property remained relatively dormant from 1985-1991, with minor grassroots exploration on the Betty Lou claims by Better Resources. In 1991, Craigmont Mines Limited completed a detailed magnetic survey and a 30-hole drill program (765 meters) on the magnetite stockpiles, which led to the construction of a recovery facility for magnetite (Rice, 1992).

In 2004 Christopher James Gold Corp (CJGC) signed an option agreement with Craigmont Mines Limited and began compiling historical geophysical and geological data to create 3 dimensional models for further drill targeting. A follow-up magnetic and IP geophysical survey identified several targets. An 8-hole drill program in 2005 focused on the Embayment block and on the south slope of Promontory Hills.

The results of the 2005 survey indicated that holes AB-1, AB-2, and AB-3 drilled in the Embayment Block remained open at depth, as none of the drill holes made it through the Spences Bridge Group (Kingsvale Group) rocks to the potentially mineralized Nicola Group in the Embayment Block. Holes AB-5, AB-6, AB-7, AB-8 encountered weak chalcopyrite skarn mineralization.

At the end of 2006 leading into 2007, CJGC optioned the Betty claims from Clibetre Resources and drilled 2 diamond holes. No significant mineralization was encountered.

CJGC completed minor assessment work including a silt and rock geochemical survey on a separate set of claims immediately northwest of Thule's property in 2010. Shortly after completion of the survey, CJGC relinquished their option on the main Craigmont claims back to Craigmont Holdings Limited.

Huldra Properties Inc. (a predecessor of Nicola Mining Inc.) acquired the mineral tenures in 2011 and completed an airborne magnetometer and radiometrics survey on the property. The airborne survey added value with interpreted targetscoinciding with historic data and new exploration.

Table 2. List of Craigmont drill holes by level (list is approximate)

Level	Diamond	Percussion	Number of holes	Date
2400	X		153	1961-1978
2460	X		2	Feb-77
2510	X		11	1976
2560	X		45	1965-1976
2560		X	17	1964-1965
2606	X		8	1975
2653	X		26	1975-1978
2700	X		294	1962-1977
2700		X	132	1963
2747	X		33	1974-1978
2780	X		42	1974-1977
2813	X		149	1974-1976
2846	X		61	1972-1975
2852	X		285	1964-1974
2852		X	96	1964-1965
2860	X		1	1978
2879	X		78	1973-1976
2912	X		59	1973-1977
2915	X		49	1972-1977
2940	X		13	1974-1977
2960	X		3	1974
2978	X		50	1972-1975
2995	X		5	1974
3008	X		50	1970-1972
3008		X	34	1964
3011	X		27	1972
3030	X		21	1973
3060	X		550	1959-1974
3060		X	47	1963-1964
3085	X		5	1974
3091	X		13	1972
3122	X		34	1972-1977
3140	X		7	1972
3153	X		51	1971-1973

Level	Diamond	Percussion	Number of holes	Date
3160	X		13	Nov-69
3184	X		45	1971-1972
3215	X		73	1970-1971
3246	X		181	1967-1972
3250	X		73	1964-1969
3250		X	59	1964-1969
3266	X		20	Aug-73
3277	X		29	1968-71
3300	X		150	1965-1973
3300		X	66	1965-1973
3308	X		34	1969-1971
3339	X		8	1967-1969
3366	X		6	1967-1969
3370	X		37	1967-1969
3399	X		8	1967-1969
3401	X		5	Aug-71
3432	X		44	1967-1972
3464	X		13	1969-1970
3496	X		17	1968-1972
3500	X		282	1959-1971
3500		X	52	1959-1971
3560	X		64	1967-1971
3590	X		48	1968-1970
3620	X		24	1969-1971
3650	X		50	1969-1971
3665	X		10	Jul-69
3680	X		4	Oct-Nov 1967
3710	X		34	June-Nov 1967
27-755R		X	22	1969
27-760R		X	6	1969
30-785R		X	4	1964
30-785V		X	10	1964
30-826R		X	6	1964
30-829R		X	4	1964
30-838R		X	4	1964
30-842		X	4	1964
30-848R		X	8	1964
30-859		X	8	1964
30-861		X	8	1964
30-870		X	6	1964

Level	Diamond	Percussion	Number of holes	Date
30-901		X	22	1964
30-976		X	4	1964
SURFACE	X		171	1958-2006
TOTAL			4187	

Geological Setting

Regional Geology

The Thule Copper-Iron Property is situated on the contact between the Jurassic Late-Triassic Guichon Batholith, the Upper Triassic Nicola Group and the Upper Cretaceous Spences Bridge Group (which includes the formerly named Kingsvale Group). Most of the area is covered either by glaciofluvial or till material.

On the Thule claims, the Guichon Batholith varies from a quartz diorite to granodiorite. These rocks intrude the Nicola Group which includes a volcanic and sedimentary package of andesite, limestone, siltstone, greywacke, rhyolite and basalt. Spences Bridge agglomerates unconformably overly the Guichon and Nicola Group rocks dipping at approximately 15 degrees to the south and outcropping to the south and west of the mine.

Porphyry and skarn mineralization occurring on the property consists of either fracture/fault controlled or stratigraphic-hosted malachite, chalcopyrite, chalcocite, azurite, bornite and native copper along fractures or stratigraphically-hosted within Nicola Group volcanics. Mineralization at the Craigmont mine is hosted as 2 main ore-types: carbonate-hosted or silicate hosted.

Several major faults provide geological control on the property including a possible southern extension to the Lornex Fault (oriented north-south on the west side of the property), the northwest trending West Embayment & East Embayment Faults, the Mine East-West Fault, and the Dry Lake Fault.

Local Geology

The local geology surrounding the Craigmont mine area and to the east, west and immediate south of the mine was mapped in detail by the Craigmont Mines exploration team (Morrison, 1979) during the operation of the mine.

For coding purposes and simplification, the geological descriptions proposed by Greg Morrison have been used for mapping and logging purposes.

Lithology

Cretaceous

Spences Bridge Group (Kingsvale) – "V"

Basalt, andesite, and hornblende needle porphyry flows, volcanic breccia; local basal sandstone and conglomerate. At the bottom of this unit is a bentonitic clay layer that provides drilling challenges due to swelling clays and water filled regolith.

Jurassic-Triassic - Intrusions

Border Phase (Guichon Batholith) – "G"

Fine-medium grained biotite hornblende diorite-quartz diorite, weakly foliated, inclusion-bearing (Gdi). Also dikes and plugs of massive homogeneous fine-grained hornblende biotite diorite (Gddi).

Coyle Stock – "Y"

Medium-grained hornblende biotite granodiorite (Ygd) locally with porphyritic biotite diorite margin (Ydip). Quartz feldspar porphyry plugs, aphanitic rhyolite matrix (Ygfp) - subvolcanic equivalent of R.

Triassic – Nicola Group

Skarn – "K"

Rocks containing a total of 30% or more of any of the minerals magnetite (m), hematite (h), actinolite (a), chlorite (cl), epidote (e), garnet (g). calcite (c), K-feldspar (kf) or diopside (d) may also be present. Skarn minerals constituting 15% or more of the rock are shown by a letter symbol. SKARNIFIED ROCKS: Rocks containing 10-30% or more skarn minerals have the suffix "k" after the symbol for the principal rock type.

Quartzo-Feldspathic Sedimentary Rocks – "S"

Massive dark grey-brown sandstone and siltstone composed of quartz and feldspar crystals and volcanic rock fragments in a quartz-feldspar-biotite matrix. Includes greywacke, which is the commonly used field term.

Biotite+/-Magnetite Bearing Volcano-Sedimentary Breccias – "BX"

Lumped categorically based on two historical codes:

Magnetite-Bearing Volcano-Sedimentary Rocks (formerly labeled M)

Inhomogeneous mixture of conglomerate, sandstone, grit and siltstone composed of angular fragments of rhyolitic and basaltic-andesitic volcanic rocks and feldspar and quartz crystals in a biotitic, locally magnetite-rich matrix; may include basaltic-andesitic volcanic rocks.

Biotite-Rich Volcano-Sedimentary Rocks – (formerly labeled B)

Inhomogeneous mixture of siltstone, sandstone, conglomerate, grit and mudstone composed of angular fragments of rhyolitic volcanic rock s and quartz and feldspar crystals in a biotite-rich-matrix; may include rhyolitic volcanic rocks; commonly interbedded with carbonate-rich rocks.

Carbonate-Rich Rocks – "C"

Massive crystalline limestone and marble locally fossiliferous: lime siltstone, sandstone and grit generally mixed or interbedded with other sedimentary or volcanic rocks. Limy rocks with 10-50% carbonate are designated by suffix "c" after symbol of host lithology. This unit consists of three facies that are gradational in composition and locally interbedded.

Rhyolitic Volcanic Rocks – "R"

Light grey-green-buff massive-weakly bedded rhyolite crystal tuff, tuff, lapilli tuff, lithic tuff and breccia; spherulitic rhyolite flows. This unit can be at least 200 metres thick.

Basaltic-Andesitic Volcanic Rocks "A"

Red-purple massive-weakly bedded agglomerate and sandstone; augite plagioclase porphyry flows and flow breccias. In the mine, this unit is at least 90 metres thick.

Monzonite "MO"

Pink, fine to medium-grained biotite K-feldspar monzonite, equigranular. The monzonite commonly carries primary specularite, is less magnetic then the diorite "G", and is unmineralized. The monzonite was identified in 2016 in the Eric target.

The Distribution and Nature of Skarn Assemblages (Lindinger, 2004)

Listed below is a brief summary of relationships among stratigraphy, mineral assemblages, skarn and ore types at Craigmont.

Key points regarding skarns at Craigmont

1) Only about 2/3 of Craigmont ore is developed in skarn rocks, with the rest being in brecciated clastic rocks

2) Even massive skarns contain relics of carbonate and clastic rocks
3) Some of the skarn assemblages are comparable to hornfelsed rocks
4) There is no obvious zoning of skarn assemblages within the Guichon Creek batholith. Zoning takes place along strike with the Carbonate unit.
5) Bleaching is common in clastic rocks and adjacent to skarn targets at Craigmont

Stage 1 Skarns

Stage 1 skarns are developed through selective diffusional metasomatism of volcano-sedimentary host rocks through metasomatism. Relics of the host rock can remain.

The following mineral assemblages are common in Stage 1 skarns:

1) Magnetite-Rich Skarn (mineralized)
    a. Developed in basaltic tuffs and flows intercalated with the Interbedded facies of the limestone unit.
    b. Contains interstitial chalcopyrite, quartz and calcite
    c. Common in the eastern part of the mine
2) Massive to Banded Actinolite-Epidote-Magnetite Skarn (mineralized)
    a. Developed in the interbedded facies adjacent to the Massive Limestone facies of the Carbonate unit.
    b. Replaces argillite, siltstone or lime sandstone.
    c. Common in the western part of the mine
3) Barren, Banded Epidote-Garnet Skarn
    a. Developed in rhyolite tuff or limestone with minor pyrite, actinolite, and magnetite. Relics of original facies common.
4) Barren Massive Garnet-Epidote-Calcite-Pyrite Skarn
    a. Developed in massive limestone adjacent to diorite plugs
    b. Common where the Massive Limestone facies tapers out in the central part of the mine

Stage 2 Skarns

Stage 2 skarns occur through the remobilization of minerals in Stage 1 skarns. This process is related to the development of shearing and brecciation within the carbonate unit. A genetic relationship exists between the development of shearing, the emplacement of diorite plugs and the formation of massive garnet replacement skarn and specularite ore.

1) Specularite-Rich Skarn
    a. Coarse to very-coarse grained platy specular hematite in veins and as a replacement mineral of magnetite in actinolite-epidote-magnetite skarn
    b. Common in Body 2 and between specularite-rich hornfels and brecciated hornfels in the western half of Body 1.
2) Massive Garnet Replacement Skarn
    a. Very coarse grained garnet.

b. Replaces actinolite-epidote-magnetite skarn in the lower and eastern parts of the mine, near the diorite plug.

Distribution of Ore Types

Three main varieties of ore types exist at Craigmont:

1) Magnetite
    a. Composed of 5-8% disseminated and lesser vein chalcopyrite
    b. Located in magnetite-rich skarns of Body 1 East and in the lower part of Body 1 South and in the banded actinolite epidote-magnetite skarn in Body 2.
2) Specularite
    a. In the central part of Body 1 Main, magnetite is subordinate to specularite and much of the ore is a breccia
    b. Specularite-chalcopyrite veins can commonly have haloes of K-feldspar-chalcopyrite replacing epidote in barren skarn
3) Stringer Ore
    a. Very fine-grained chalcopyrite and pyrite in stringers, veinlets, disseminations, bands and quartz-epidote-calcite-chlorite-specularite veins
    b. Occurs in bleached rocks of the Interbedded and Grit facies in Body 3 in the western part of the mine
    c. Similar mineralization also found in the rhyolite unit on section 8015

MINFILE's & Mineral Occurrences

According to the B.C. MINFILE records (MEMPR), there are 13 showings on the Thule Copper-Iron property: Eric, Titan Queen, Etta, ARH, Betty Lou, Tom, Hank 30, Marb, Marb 72, WP, Laron, Jua, and Craigmont. The accuracy on these showings ranges between 500 metres to 1 kilometre.

Table 3. MINFILE records located within the boundaries of the Thule Copper-Iron Property.

Minfile Number	Names	Type of Occurrence	Commodities	Deposit Target Type	Easting (m)	Northing (m)
092ISE036	**Eric**, Quartzite, Craigmont (Orange Group)	Showing	Copper, Iron	Skarn/Porphyry	650597	5564164.79
092ISE034	**Titan Queen**, Paystin, Craigmont (Green Group)	Showing	Copper	Porphyry	647023	5565005
092ISE162	**Etta**, Retan, Paquet, HAR, ARH	Showing	Copper	Red bed	648379	5561639
092ISE040	**ARH**, Sid (North), Chalco, HAR	Showing	Copper, Iron	Skarn	647577	5560535
092ISE173	**Betty Lou**, Betty	Showing	Copper, Lead, Zinc	Skarn	643863	5562813
092ISE037	**Tom**, Hank, Hawk, Ty	Showing	Copper	Skarn	644360	5560601
092ISE038	**Hank 30**, Hawk, Tye	Showing	Copper, Iron, Cobalt	Skarn	643752	5560306
092ISE033	**Marb**, Marb 3, CJS, Torwest A	Showing	Copper	Porphyry/Skarn	645019	5565126
092ISW037	**Marb 72**, Gus	Showing	Copper	Skarn/Porphyry	642188	5563911
092ISE068	**WP**, White and Pendlebury, Top, WP 110, WP 130	Showing	Copper, Mercury	Porphyry/Skarn	641568	5564573
092ISE189	**Laron**, Tormont	Showing	Copper	Porphyry	650657	5565755
092ISE171	**Jua**	Showing	Copper	Porphyry	650849	5566900
092ISE035	**Craigmont**, Craigmont Mine, Craigmont Tailings	Past Producer	Copper, Iron, Silver, Gold	Skarn	647983	5563760

GEOCHEMISTRY

Introduction

During the 2016 field season, 53 rock samples were collected at the WP, Marb, Titan Queen, and Eric targets on the Thule Property testing for copper and multi-elements (Figure 5). The samples were collected on mineral tenure owned 100% by Nicola Mining Inc.

Sampling and Analytical Procedures

Rock Geochemical Survey

The rock geochemical survey involved collecting chip-channel and selective grab samples from known historical targets. The survey consisted of more detailed follow-up work from the 2015 rock sampling program completed by Nicola Mining Inc. (BC Assessment Report 36141).

Rock samples were carefully cleaned to avoid weathered surface or organic material and to best represent the mineralization and/or alteration for that location. Whenever possible the fresh face of samples was collected. All samples were washed and cleaned prior to submission to the labs. Sample lengths were measured and spray painted prior to sampling. Metal tags are located with specific sample numbers at each sample location in the field. Sample types were recorded in the field book indicating the lithology, alteration, mineralization and structural features of the rock.

Approximately one to three kilograms of rock material was collected from the sample locations and placed in a large poly ore bag. The bags were labeled on both sides with the corresponding sample ID numbers taken numerical sampling booklets provided by ActLabs. Sample locations for rocks were indicated with a representative sample, which was labeled with a sample ID number and is currently stored at the Merritt Mill facility. Descriptions of each rock sample were recorded in the sample booklets (Appendix IV). Corresponding photos for each sample and collection of samples were taken at each site.

Quality Control Measures

Activation Laboratories Ltd.

All rock samples were submitted to Activation Laboratories Ltd. “Actlabs” in Kamloops, B.C. for the 2015 exploration program. The 38 element ICP package (Actlabs Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO) and the Au Fire Assay package (Code 1A2-Kamloops Au – Fire Assay AA) was used for the rock samples. The ICP package involves the use of Aqua-Regia Digestion, while the Au Fire Assay package involves the use of atomic absorption. A 50-gram sample was used for the Au Fire Assay package, with a detection limit of 5 ppb.

Results

The rock geochemical program was successful in determining continuity of mineralization at surface of several targets. Structures observed on surface match well with geophysical breaks observed from the 2012 airborne magnetic survey.

Through detailed surface mapping at the Eric showing, NW and N-S structures were picked out that dictated targeting the shaft at an azimuth of ~035 (perpendicular to the intersection of the 2 structures).

Detailed mapping at the Titan Queen trenches confirmed presence of continuous high-grade copper mineralization.

Detailed mapping and sampling at the WP shaft and WP trench targets confirmed the presence of continuous copper mineralization. Both targets also consisted of distinguishable contacts between the diorite and andesite where mineralization was more prevalent. Drill target definition was enhanced through the mapping at this target, confirming NW and North-South controlling structures, but has yet to be tested.

No anomalous samples were obtained from the Montwest target, but the rock type and setting confirms the possibility of epithermal-style gold within the target. Further follow-up prospecting and sampling is recommended to truly evaluate the land package.

DRILLING

Introduction

During the 2016 field season, Nicola Mining Inc. proposed a 1,500 metre drilling program on the Eric, Embayment, Titan Queen, Marb and WP targets, with the goal to expand copper mineralization from previously known historic drilling and 2016 surface sampling. Of the 5 proposed targets, 3 were tested: the Eric, Embayment, and Titan Queen. A total of 1,084 metres was drilled.

An integrated approach utilizing the 2005 airborne geophysical survey, historic drill data and detailed mapping and sampling from 2015 and 2016 helped define drill locations. The exploration team attempted to minimize ground disturbance by modifying pre-existing trails whenever possible. All drill sites were in areas drivable by 4x4 truck.

Water was trucked to the drill by an outside contractor and delivered to a 5000-gallon water tank placed proximal to the drill. Water line was run from the water tank to the drill.

The drill contract, Western Exploration Drilling Inc. used an A5 Zinex drill to complete the drill program. The drill was capable of drilling in both HQ and NQ2. A tandem trailer, and a zoom boom were included in the drill setup to house the drill rods.

A reclamation report attached as Appendix VIII outlines the reclamation efforts taken by the contractors and Nicola Mining Inc. towards environmental stewardship.

Drill hole collar locations

Drill hole collar locations were surveyed by Alex Bukkos of 3D Survey Systems Inc. based out of Merritt BC. Survey locations were surveyed using a differential GPS after the drill holes were completed and materials were moved from the drill sites.

Table 4. 2016 drill collar locations and orientations. UTM measurements were recorded in NAD 83, Target 10.

Hole #	UTM Easting (metres)	UTM Northing (metres)	Elevation (metres)	Azimuth (degrees)	Dip (degrees)	Length (metres)	Zone
DDH-THU-001	650546.262	5564066.704	836	25	-45	80.47	Eric
DDH-THU-001A	650546.519	5564066.829	835.14	25	-45	235	Eric
DDH-THU-002	646727.031	5564094.081	1463.16	40	-60	448.06	Embayment
DDH-THU-003	647022.756	5564993.081	1462.02	60	-55	136.25	Titan Queen
DDH-THU-004	647021.694	5564994.269	1462.07	25	-45	163.88	Titan Queen

Strip Logs

Strip logs of the drilled holes are attached in Appendix III. Strip logs were generated in CoreView. Detailed .csv spreadsheets exported from CoreView are attached to this report as Appendix

Sampling and Analytical Procedures

All geological and geotechnical measurements were performed prior to the core being cut. Recovery, Rock Quality Designation (RQD), Joint Spacing & Coating, Point Load, Magnetic Susceptibility, and Conductivity were recorded.

All drill core was cut on-site and shipped by the geological team to Kamloops. Certified reference standards and rock blanks were placed in the sample stream with a ratio of approximately one sample out of 10. Drill core sample lengths varied from 0.57 metres to 3.5 metres in length, averaging 1.9 metres. Sample lengths were chosen based on geological variation and recovery within the drill core.

Quality Control Measures

Activation Laboratories Ltd.

All core samples were submitted to Activation Laboratories Ltd. “Actlabs” in Kamloops, B.C. for the 2015 exploration program. The 38 element ICP package (Actlabs Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO) and the Au Fire Assay package (Code 1A2-Kamloops Au – Fire Assay AA) was used for the rock samples. The ICP package involves the use of Aqua-Regia Digestion, while the Au Fire Assay package involves the use of atomic absorption. A 50-gram sample was used for the Au Fire Assay package, with a detection limit of 5 ppb.

Results

Mineralization was intersected in all 5 holes drilled during the 2016 drill campaign. The drill program was highlighted by DDH-THU-002 from the Embayment Target which intersected 1.11% copper over 85.92 metres.

Eric Target

DDH-THU-001

The first hole at the Eric Target attempted to test the downward extension of a NW fault exposing malachite and azurite mineralization within a historic shaft/pit. The hole intersected green to grey diorites and diorite breccias down to depth of 80.47 metres. A minor andesite dyke was encountered at the start of the hole from 7.5-8.7 metres. Breccia fragments showed faint bedding and volcanic textures and belong to the volcano-sedimentary sequence of the Nicola Group. Propylitic alteration defined by chlorite + epidote + calcite + hematite +/- actinolite was pervasive throughout the hole, with minor potassium feldspar +/- albite, sericite, quartz and biotite. Clasts/dykes up to 30 cm in width of monzonite/pegmatite were common in the first 18 metres of the hole. No major structures were observed, but several quartz veins and specularite veins approximately 5 cm in width were intermittently intersected.

Mineralization was encountered between 43.7-45.72 metres (0.319% copper) and 77.6-79 metres (0.239% copper). At 43.7 metres, mineralization is associated with ~1% blebby chalcopyrite +/- pyrite + specularite.

The hole was abandoned at 80.47 metres due to a stuck core barrel in bad ground conditions.

DDH-THU-001A

The second hole at the Eric Target approximately followed the same azimuth and dip as DDH-THU-001. The hole intercepted similar lithologies to DDH-THU-001 down to a depth of 80 metres. A strong magnetic target from 8.5 to 21 metres coincided with an andesite dyke at the top of the hole (8.5-9.15 metres) followed by a quartz diorite unit. From 21 to 53.5 metres, the interval consisted of diorite breccias with pyrite ranging from 2-10% and minor specularite. The elevated pyrite may coincide with pyrite +

sericite alteration and less so with any economic mineralization. Trace native copper as also visible in this interval. No elevated copper values were returned.

From 53.5 metres to 182 metres, the unit consisted of quartz diorite with propylitic (chlorite-dominant) alteration and ~5% magnetite. Elevated copper values coincided with quartz + tourmaline + specularite breccias within fault targets. The largest intervals of mineralization were from 122-135.88 metres at 0.17% copper and from 152.28-166.35 metres at 0.11% copper.

Embayment Target

AB-2

The initial goal of drilling at the Embayment Target was to continue AB-2 by re-entering the casing left at the collar location.

As quoted in Kirkham (2005, p. 77).

"Holes AB-1 and AB-2 appear to have been very close to the Kingsvale Group – Nicola Group unconformity and may have ended in a basal tuffaceous bentonitic layer overlying the Nicola Group rocks. No new information was therefore obtained about the Nicola Group rocks or the mineral potential to alter the geological model used to select the target originally. Unless new information becomes available to alter the model, the target remains viable. The casing was left in AB-2 to allow re-entry to complete the hole to the planned depth of about 425 metres. Due to the bad ground conditions, it will be necessary to ream and case the hole through the clay seams. As this was the process being undertaken on AB-1 when the hole was lost, there is a similar risk involved in re-entering AB-2, but not necessarily greater risk than drilling a new hole with HQ and stepping down to NQ once into the Nicola Group rocks."

Nicola's geological team worked with the drillers attempting to re-enter AB-2. Drilling of AB-2 began on July 7th, with the drill crew attempting to ream and case the hole through the clay seams. The bentonitic layer was encountered at a depth of 522 feet (159.10 metres). After minimal progress, a decision was made on July 9th to switch the drill from a diamond drill bit to a tricone bit, with the goal being to get through the bentonitic clay layer. On July 11th, a management decision was made to remove the NQ2 casing and try a new drill hole with HQ casing. Due to the challenging ground conditions, the geological team opted to test the East Embayment Fault and any mineralization controlled by that fault target instead of continuing with AB-2.

DDH-THU-002

DDH-THU-002 attempted to intersect mineralization associated with Embayment Target. The mineralized target was expected at a depth of approximately 350 metres. The drill hole cased through 6 metres of overburden, before intersecting a clast-

supported volcanic conglomerate unit belonging to the Spences Bridge Group down to a depth of 154.5 metres. No measurements were taken in this unit.

From 154.5 metres to 207.55 metres, strongly faulted rhyolite with lesser greywacke consisting of pyrite + sericite alteration with lesser chlorite is seen. Mineralization consists primarily of native copper with trace to 0.5% chalcopyrite. The highest intercept within this unit consists of 4.85 metres of 0.29% ppm copper from 178.7-183.55 metres. No magnetite was present.

From 207.55 to 259.5 metres, unaltered, white crystalline limestone with trace to 0.5% pyrite.Weakly elevated copper values are seen at the base of a fault target from 223.5-233.9 metres.

From 259.5 to 268.9 metres, brecciated greywacke with faint garnet skarn alteration textures. The interval consisted on average of 0.5% magnetite and 1% pyrite.

From 268.9 metres to 331.0 metres, a banded garnet + pyrite skarn with elevated copper associated with high pyrite targets (10% pyrite). The strongest mineralization (0.21% ppm copper) occurrsfrom 300.65-309.45 metres.

A 1.52-metre-wide chalcopyrite vein carrying 3.79% copper from 331.08 to 332.6 metre separates the garnet skarn t uphole from an epidote + magnetite + chalcopyrite skarn downhole. The interval is strongly mineralized to a depth of 417 metres, averaging 1.11% copper over the 85.92 metres.

Contact with the lower diorite unit is truncated by a chalcopyrite vein from 415-417 metres that averages 3.85% copper.

Unaltered quartz diorite from 417 to 448.06 metres (end of hole) is seen and appears to be outside of the Eastern Embayment Fault Target. The hole was shut down at 448.06 metres due to lack of mineralization.

Titan Queen Target

Two drill holes at Titan Queen were drill to test depth of mineralization below the trenches and test a NW-trending fault target exposed during excavation of a road cut at the Titan Queen site.

DDH-THU-003

The drill hole intersected quartz diorite for most of its 136.25 metres. A strongly magnetic quartz tourmaline breccia target was intersected from approximately 2.4-5.3 metres. The breccia target consisted of a fine tourmaline matrix with sub-rounded altered quartz diorite fragments. One unmineralized fine-grained aplite dyke was intersected from 36.25-40.3 metres. A slight bump in mineralization (913 ppm copper) was observed at the upper contact, possibly due to the presence of trace chalcopyrite.

One other target of copper mineralization from 52-54 metres returned 3420 ppm copper. The mineralized target coincided with the mapped fault exposed during the road cut excavation. Alteration was primarily propylitic with chlorite + epidote as the main alteration species. The hole was shut down to lack of mineralization.

DDH-THU-004

Due to permitting, financial and time restraints, DDH-THU-004 was drilled from the same pad location as DDH-THU-003. The hole was oriented more northerly then DDH-THU-003 and a slightly lower dip in an attempt to extend the tourmaline breccia target to the north. The drill hole encountered the same tourmaline breccia target as DDH-THU-003 from 0 to 4.2 metres, intersecting 1.3% copper from 2.44-4.22 metres depth. Quartz diorite was intersected through the entire hole, with exception of the fine-grained aplite dyke from 31-35.3 metres. No significant mineralization was encountered in the hole. The hole was shut down to lack of mineralization.

CONCLUSIONS AND RECOMMENDATIONS

The 2016 exploration program succeeded in identifying and confirming mineralization at the Embayment, Eric and Titan Queen targets. The program also confirmed an eastward extension of the Embayment Target and tested fault controls at the Embayment target.

Nicola Mining Inc. is actively advancing the Thule Property through on-going exploration. Between the completion of the diamond drill program and the date of this report, Nicola Mining Inc. has 1) completed a Light Detection and Ranging Survey (LIDAR) survey over the Thule Property, 2) detailed mapping over the Titan Queen and Promontory Hills targets, 3) resampled S-100, including intervals not previously sampled, 4) re-interpreted historical 3D induced polarization (IP) data and 5) is currently in the process of completing a new 2D IP survey on the Promontory Hill target.

The following recommendations are suggested:

1) Diamond drilling at the Embayment target. A series of 10 diamond drill holes oriented in a northeasterly/southwesterly direction, targeting the Embayment mineralized target and the East Embayment Fault. A preliminary ground magnetics and/or IP survey should be completed to define the magnetic signature of the target. **Budget $1,500,000.**
2) Detailed ground magnetic and induced polarization survey over the Titan Queen magnetic anomaly. **Budget $40,000**
3) Diamond drill testing of S-90 at the Eric target. Much of the drill core from S-90 is missing and cannot be verified. One 200 metre hole directed at a NW trending structure is recommended to confirm the existence of mineralization. **Budget $40,000.**

4) A detailed ground magnetic survey over the Marb target. Outcrop exposure is good in one particular section of this target. Detailed geological mapping is recommended. **Budget $30,000**
5) Diamond drilling at the WP targets. The two targets proposed at the WP target have been flagged in the field and warrant testing. The drill holes were established after the detailed rock chip sampling at the WP Trench and WP Shaft. Two holes between 200-250 metres are recommended to test the mineralized target at WP. Further consultation with the Nooaitch Indian Reserve is required to address environmental concerns with the currently proposed drill locations. **Budget $75,000.**
6) A 3D geological and assay model of the mined-out Craigmont bodies. Continued data compilation of assay and lithology data is recommended. The 3D model should be generated using 3D GIS software. Minesight would be recommended due to Garth Kirkham's initial compilation using the program. This work can either be done in-house (purchasing the 3D software) or external. Further understanding of the structure and analytical make-up of the mined-out Craigmont body will increase understanding of the entire district. **Budget $50,000**.

Table 5. Statement of Costs.

STATEMENT OF EXPENDITURES (2016 Exploration Program - $300k flow through - approximate - detailed breakdown after references)			
Category	**Tasks**	**Contractors**	**Amount ($)**
Drilling Costs (All-In)	Drill Rig Set-Up, Tear Down, HQ Diamond Drilling	Western Exploration	180,000.00
Assaying Costs	Preparatory, ICP & AA Fire Assay Analysis	ActLabs	15,000.00
Geological Consulting	Surveying, Geological Mapping, Core Logging, Sampling, Drilling Management	Brian May, Tyler Punk, Mike Frye, Chris LeClair, Kelson Wilms, Phil Gordon, Amber Chleczynski	75,000.00
Operations	Road work, water, pad construction, reclamation, archaeological studies, final drill hole survey	Hughmer Contracting, Ursus Heritage Consulting, Nicola Tribal Association, 3D Survey Systems	30,000.00
Supplies	Core Boxes, Flagging, Markers, Core Logging Supplies	D Goetz Core Boxes, Deakin Industries	5,000.00
Report Writing	2016 Exploration Assessment Report	Brian May, Chris LeClair	5,000.00
Total			310,000.00

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MINFILE Numbers (retrieved from http://minfile.gov.bc.ca) 092ISE033, 092ISE034, 092ISE035, 092ISE036,092ISE037, 092ISE068, 092ISW037

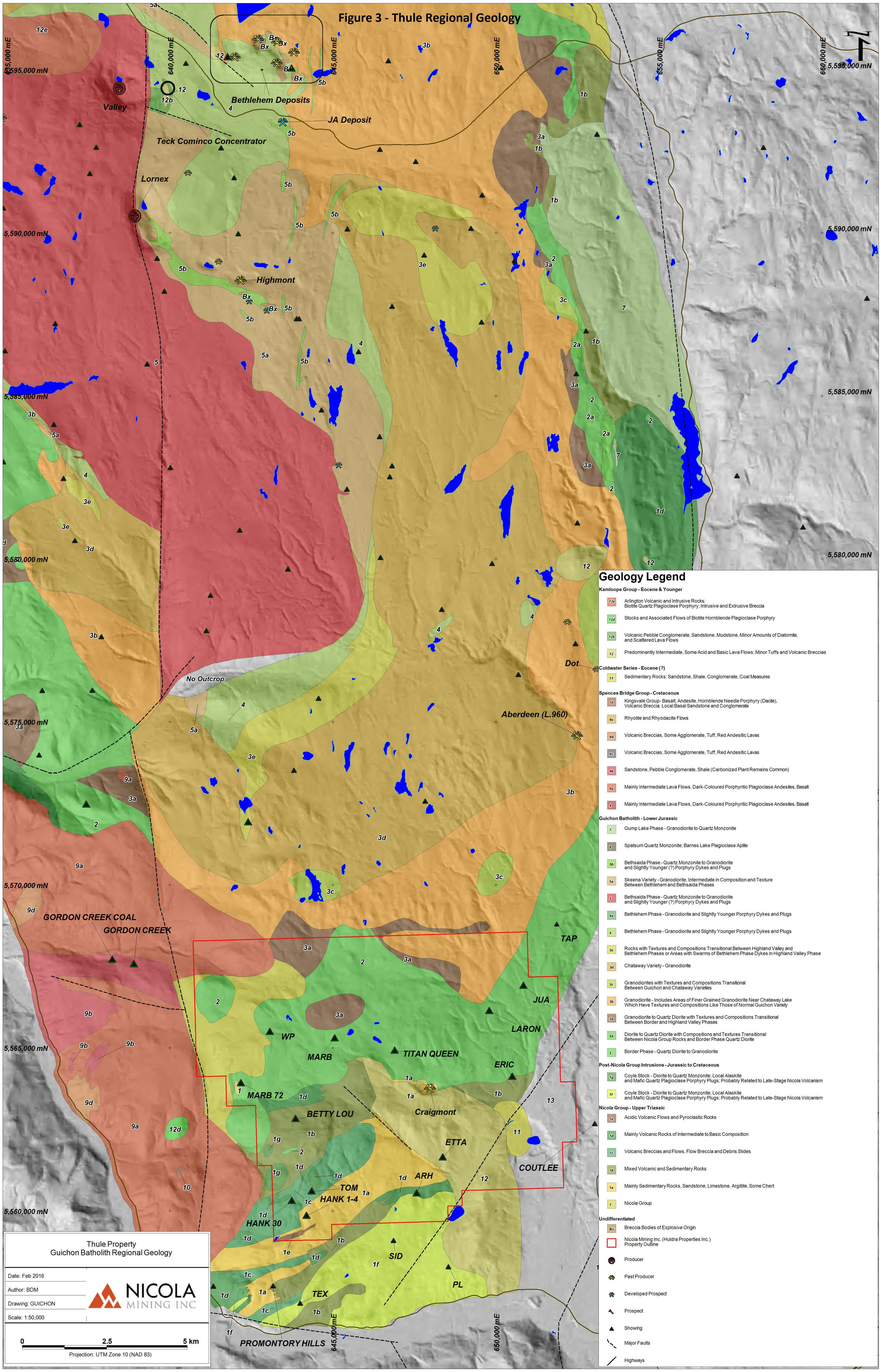
HULDRA SILVER INC.
Transaction Detail by Account
January through December 2016

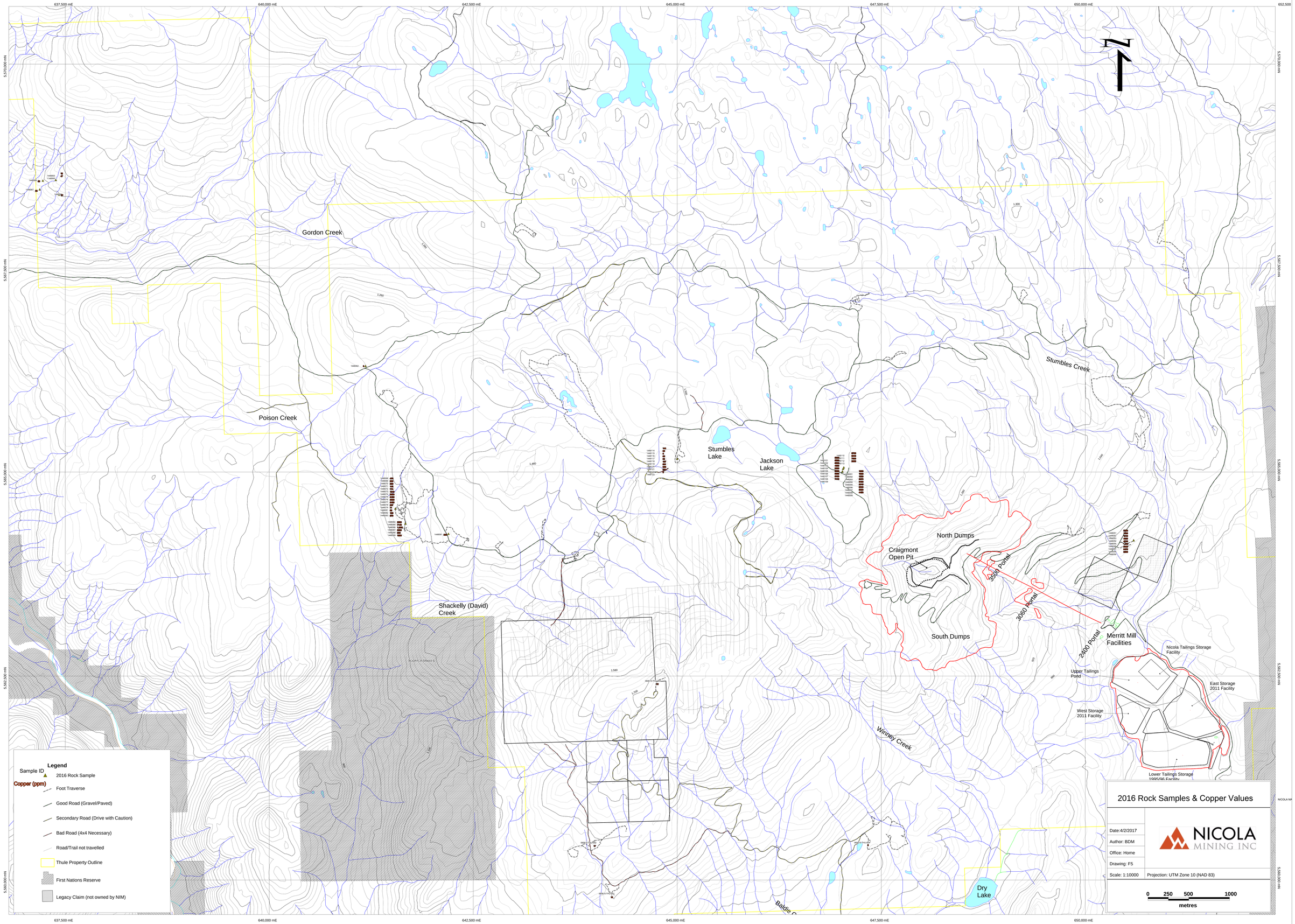
Type	Date	Num	Name	Memo	Class	Clr	Split	Amount	Balance
69022 · Flow-Through -Thule									
Bill	1/13/2016	45354	Brian May	Brian M - Ro...	FT - Thule		30200 · Accou...	480.00	480.00
Bill	2/1/2016	#1	Brian May	Brian May - i...	FT - Thule	X	30200 · Accou...	0.00	480.00
Bill	2/24/2016	Jan 2...	Brian May	Thule Copper...	FT - Thule		30200 · Accou...	2,600.00	3,080.00
Bill	2/24/2016	Feb 2...	Brian May	Thule Copper...	FT - Thule		30200 · Accou...	4,250.00	7,330.00
Bill	2/24/2016	2064	Peter Espig	Free miners ...	FT - Thule		30200 · Accou...	500.00	7,830.00
Bill	3/8/2016		Michael Frye	2016 Thule F...	FT - Thule		30200 · Accou...	350.00	8,180.00
Bill	3/30/2016		Tyler Punk		FT - Thule		30200 · Accou...	548.00	8,728.00
Bill	3/30/2016		Brian May	March 2016 ...	FT - Thule		30200 · Accou...	769.90	9,497.90
Bill	3/30/2016		Brian May	March 2016 ...	FT - Thule		30200 · Accou...	6,050.00	15,547.90
Bill	3/30/2016		Tyler Punk	March 2016 ...	FT - Thule		30200 · Accou...	548.00	16,095.90
Bill	3/30/2016		Michael Frye		FT - Thule		30200 · Accou...	350.00	16,445.90
General Journal	3/31/2016	811		VOID: Brian ...	FT - Thule	X	69004 · Asses...	0.00	16,445.90
Bill	4/7/2016	2069	Castle Fuels (2008)...	Fuel for Thul...	FT - Thule		30200 · Accou...	3,146.89	19,592.79
Bill	4/21/2016	2072 ...	Warwick Bay	Site visit - ge...	FT - Thule		30200 · Accou...	341.44	19,934.23
Bill	4/26/2016	2073	Brian May	Flow-Throug...	FT - Thule		30200 · Accou...	4,900.00	24,834.23
Bill	4/26/2016	2074	Tyler Punk	Flow-Throug...	FT - Thule		30200 · Accou...	1,644.00	26,478.23
Bill	4/26/2016	2075	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	624.98	27,103.21
Bill	4/26/2016	2076	Kelson Willms	Flow-through ...	FT - Thule		30200 · Accou...	200.00	27,303.21
Bill	4/27/2016	Thule...	Brian May	VOID: Food ...	FT - Thule	X	30200 · Accou...	0.00	27,303.21
Bill	4/27/2016	Thule...	Kelson Willms	VOID: Thule ...	FT - Thule	X	30200 · Accou...	0.00	27,303.21
Bill	4/27/2016	Thule...	Canadian Resource...	VOID: Thule ...	FT - Thule	X	30200 · Accou...	0.00	27,303.21
Bill	4/30/2016	2070	Deakin Industries	Thule Flow-T...	FT - Thule		30200 · Accou...	810.90	28,114.11
Bill	5/5/2016	2077	Activision Laborator...	Flow-through ...	FT - Thule		30200 · Accou...	41.48	28,155.59
Bill	5/13/2016	2078	Cdn Resource Labo...	Flow-through ...	FT - Thule		30200 · Accou...	760.00	28,915.59
Bill	5/16/2016	2079	Tyler Punk	Flow-through ...	FT - Thule		30200 · Accou...	2,642.82	31,558.41
Bill	5/27/2016	2080	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	5,700.00	37,258.41
Bill	5/27/2016	2081	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	1,134.17	38,392.58
General Journal	5/31/2016	841		Deakin suppli...	FT - Thule		69005 · Metall...	0.00	38,392.58
General Journal	5/31/2016	842		Thule F/T ex...	FT - Thule		69008 · Suppli...	0.00	38,392.58
General Journal	5/31/2016	843		Supplies fro...	FT - Thule		69008 · Suppli...	0.00	38,392.58
General Journal	5/31/2016	845		April 2016 Bri...	FT - Thule		-SPLIT-	0.00	38,392.58
General Journal	5/31/2016	845		April 2016 Ty...	FT - Thule		69022 · Flow-...	0.00	38,392.58
General Journal	5/31/2016	845		May 2016 Ke...	FT - Thule		69022 · Flow-...	0.00	38,392.58
General Journal	5/31/2016	845		May 2016 Bri...	FT - Thule		69022 · Flow-...	0.00	38,392.58
Bill	6/3/2016	2082	Deakin Industries	Flow-through ...	FT - Thule		30200 · Accou...	201.63	38,594.21
Bill	6/7/2016	2071	Activision Laborator...		FT - Thule		30200 · Accou...	1,246.95	39,841.16
Bill	6/11/2016	2083	Kelson Willms	Flow-through ...	FT - Thule		30200 · Accou...	200.00	40,041.16
Bill	6/20/2016	2084	Activision Laborator...	Flow-through ...	FT - Thule		30200 · Accou...	1,246.95	41,288.11
Bill	6/27/2016	2085	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	5,450.00	46,738.11
Bill	6/27/2016	2121	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	835.81	47,573.92
Bill	6/27/2016	2122	Deakin Industries	Flow-through ...	FT - Thule		30200 · Accou...	499.20	48,073.12
Bill	6/30/2016	2124	Chris Leclair	Flow-through ...	FT - Thule		30200 · Accou...	250.00	48,323.12
Bill	6/30/2016	2125	Western Exploratio...	Flow-through ...	FT - Thule		30200 · Accou...	1,500.00	49,823.12
Bill	6/30/2016	2126	Tyler Punk	Flow-through ...	FT - Thule		30200 · Accou...	3,514.55	53,337.67
Bill	7/1/2016	2127	Dwight Goetz	Flow-through ...	FT - Thule		30200 · Accou...	1,588.95	54,926.62
Bill	7/1/2016	2128	Knights Inn	Flow-through ...	FT - Thule		30200 · Accou...	3,410.00	58,336.62
Bill	7/6/2016	2123	Deakin Industries	Flow-through ...	FT - Thule		30200 · Accou...	488.88	58,825.50
General Journal	7/6/2016	936		Magnetic Sus...	E&E		37005 · I/C- H...	8,337.23	67,162.73

HULDRA SILVER INC.
Transaction Detail by Account
January through December 2016

Type	Date	Num	Name	Memo	Class	Clr	Split	Amount	Balance
Bill	7/11/2016	2131	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	7,200.00	74,362.73
Bill	7/13/2016	2133	Hughmer Contractin...	Flow-through ...	FT - Thule		30200 · Accou...	18,120.00	92,482.73
Bill	7/22/2016	2134	Western Exploratio...	Flow-through ...	FT - Thule		30200 · Accou...	44,433.43	136,916.16
Bill	7/22/2016	2135	Activision Laborator...	Flow-through ...	FT - Thule		30200 · Accou...	1,276.00	138,192.16
Bill	7/22/2016	2136	Nicola Tribal Associ...	Flow-through ...	FT - Thule		30200 · Accou...	675.00	138,867.16
Bill	7/22/2016	2137	Tyler Punk	Flow-through ...	FT - Thule		30200 · Accou...	6,000.00	144,867.16
Bill	7/22/2016	2138	Tyler Punk	Flow-through ...	FT - Thule		30200 · Accou...	3,931.63	148,798.79
Bill	7/24/2016	2144	Hughmer Contractin...	water truck fo...	FT - Thule		30200 · Accou...	13,875.00	162,673.79
Bill	7/31/2016	2139	Brian May	Flow-through ...	FT - Thule		30200 · Accou...	9,500.00	172,173.79
Bill	7/31/2016	2140	Chris Leclair	Flow-through ...	FT - Thule		30200 · Accou...	800.00	172,973.79
Bill	7/31/2016	2141	D Goetz Core Boxes	Flow-through ...	FT - Thule		30200 · Accou...	529.65	173,503.44
Bill	7/31/2016	2142	Activision Laborator...	Flow-through ...	FT - Thule		30200 · Accou...	35.00	173,538.44
Bill	7/31/2016	2148	Peter Espig	Drilling consu...	E&E		30200 · Accou...	10,000.00	183,538.44
Bill	7/31/2016	2148	Peter Espig	VOID: Thule ...	FT - Thule	X	30200 · Accou...	0.00	183,538.44
Bill	8/3/2016	2143	Activision Laborator...	Flow-through ...	FT - Thule		30200 · Accou...	1,265.25	184,803.69
Bill	8/9/2016	2145	Activision Laborator...	Thule F/T as...	FT - Thule		30200 · Accou...	538.35	185,342.04
Bill	8/9/2016	2146	Phil Gordon	Thule F/T gel...	FT - Thule		30200 · Accou...	1,200.00	186,542.04
Bill	8/9/2016	2147	Amber Chelczynski	Thule F/T 20...	FT - Thule		30200 · Accou...	2,250.00	188,792.04
Bill	8/15/2016	2149	Western Exploratio...	Thule F/T 20...	FT - Thule		30200 · Accou...	84,218.94	273,010.98
Bill	8/15/2016	2150	Activision Laborator...	Thule F/T 2016	FT - Thule		30200 · Accou...	1,728.83	274,739.81
Bill	8/15/2016	2151	Telus	Thule F/T 20...	FT - Thule		30200 · Accou...	378.03	275,117.84
Bill	8/15/2016	2152	Activision Laborator...	Thule F/T as...	FT - Thule		30200 · Accou...	6,242.55	281,360.39
Bill	8/15/2016	477	3D Survey Systems...	Survey work f...	FT - Thule		30200 · Accou...	352.50	281,712.89
Bill	8/24/2016	2153	Activision Laborator...	Thule F/T 20...	FT - Thule		30200 · Accou...	2,278.00	283,990.89
Bill	9/6/2016	2154	Brian May	Thule F/T 20...	FT - Thule		30200 · Accou...	2,700.00	286,690.89
Bill	9/6/2016	2156	Hughmer Contractin...	Thule F/T 20...	FT - Thule		30200 · Accou...	1,580.00	288,270.89
General Journal	9/30/2016	939		Core boxes f...	FT - Thule		-SPLIT-	1,059.30	289,330.19
General Journal	9/30/2016	939		Core boxes f...	FT - Thule		69022 · Flow-...	2,341.05	291,671.24
Cheque	10/28/2016	00655	Geosoft	Geosoft soft...	FT - Thule		10003 · TD Ca...	7,830.00	299,501.24
Cheque	12/14/2016	00706	Ursus Heritage Con...	Preliminary F...	FT - Thule		10003 · TD Ca...	2,427.15	301,928.39
Total 69022 · Flow-Through -Thule								301,928.39	301,928.39
TOTAL								**301,928.39**	**301,928.39**

Figure 3 - Thule Regional Geology

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652,500
5,570,000 mN
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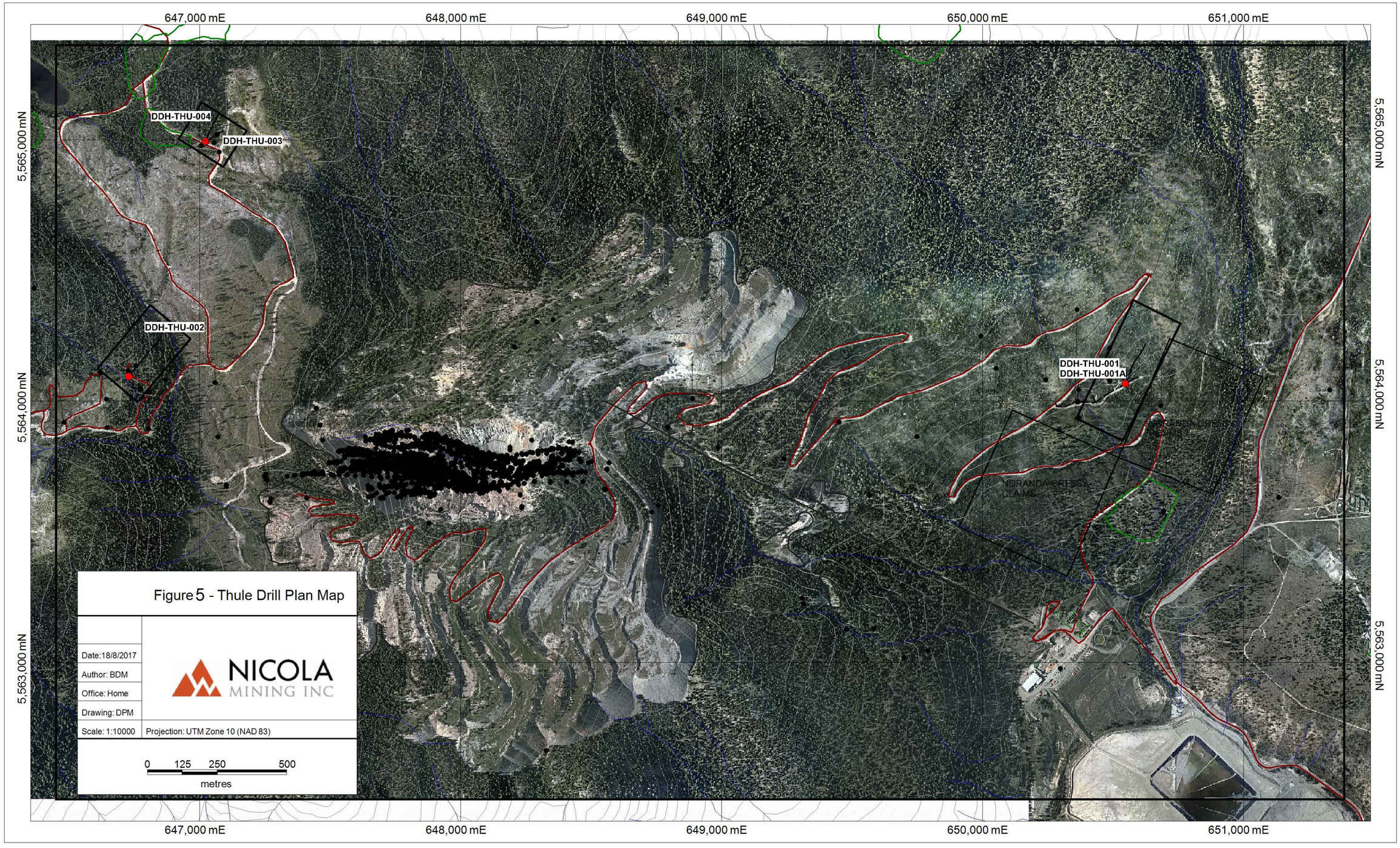
5,565,000 mN
5,562,500 mN
5,560,000 mN
N
Gordon Creek
Poison Creek
Stumbles Creek
Stumbles Lake
Jackson Lake
Shackelly (David) Creek
Craigmont Open Pit
North Dumps
South Dumps
3500 Portal
3060 Portal
2400 Portal
Merritt Mill Facilities
Nicola Tailings Storage Facility
Upper Tailings Pond
East Storage 2011 Facility
West Storage 2011 Facility
Lower Tailings Storage 1995/96 Facility
Winnipeg Creek
Dry Lake
Legend
Sample ID
Copper (ppm)
2016 Rock Sample
Foot Traverse
Good Road (Gravel/Paved)
Secondary Road (Drive with Caution)
Bad Road (4x4 Necessary)
Road/Trail not travelled
Thule Property Outline
First Nations Reserve
Legacy Claim (not owned by NIM)
2016 Rock Samples & Copper Values
Date:-4/2/2017
Author: BDM
Office: Home
Drawing: F5
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)
NICOLA MINING INC
0 250 500 1000
metres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DDH-THU-004
DDH-THU-003
DDH-THU-002
DDH-THU-001
DDH-THU-001A
NORANDA-CRESSY CLAIMS
Figure 5 - Thule Drill Plan Map
Date:18/8/2017
Author: BDM
Office: Home
Drawing: DPM
Scale: 1:10000
Projection: UTM Zone 10 (NAD 83)
NICOLA MINING INC
0 125 250 500
metres

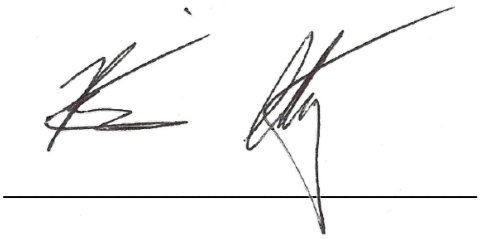
Appendix I

Author's Certificates and Statements of Qualifications

I, Brian D. May, of 10670 E 39th Place, Yuma, Arizona, hereby certify that:

- I am a graduate of Simon Fraser University, Burnaby, B.C., with a B.Sc., in Earth Sciences (2007).
- I am a Professional Geoscientist (P.Geo. #38605) registered with the Association of Professional Engineers and Geoscientists of British Columbia.
- I have been continuously employed as a geologist in Canada, the U.S.A. and Mexico since 2005.
- I have visited the Thule property on several occasions and am familiar with the geology, mineral deposits, data and recent exploration programs.
- I was responsible for organizing, directing and running the 2016 exploration program acting as a geological consultant for Nicola Mining Inc.

Dated at Yuma, Arizona on August 18, 2017



Brian May, P.Geo.

STATEMENT OF QUALIFICATIONS

1. I, Christopher James LeClair am a registered geoscientist in training residing at 1505 Mt. Dufferin Ave, Kamloops, British Columbia. V2E 1A8.

2. I am a graduate of the University of British Columbia with a Bachelor of Sciences (BSc) Concentration in Earth Sciences, focus Geology and have practiced my profession continuously since 2004.

3. Since 2004 I have been involved in mineral exploration for copper, zinc, lead, nickel, platinum and palladium in British Columbia, Ontario, Quebec, Labrador, Yukon, Northwest Territories and Alaska.

4. I am not aware of any material fact or material change with respect to the subject matter of this technical report that is not reflected in this report, the omission to disclose which would make this report misleading.

5. I consent to the filing of this Technical report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible to the public, of the technical report.

Dated at Kamloops on this 15th day of June, 2017

Christopher LeClair

Appendix II

MINFILE Descriptions

Location/Identification

MINFILE Number: 092ISE035
National Mineral Inventory Number: 092I2 Cu3
Name(s): **CRAIGMONT**
CRAIGMONT MINE, CRAIGMONT TAILINGS

Status: Producer
Mining Method Underground, Open Pit
Regions: British Columbia
BCGS Map: 092I026
NTS Map: 092I02W
Latitude: 50 12 27 N
Longitude: 120 55 34 W
Elevation: 1220 metres
Location Accuracy: Within 500M
Comments: Centre of open pit.

Mining Division: Nicola
Electoral District: Yale-Lillooet
Forest District: Cascades Forest District

UTM Zone: 10 (NAD 83)
Northing: 5563760
Easting: 647983

Mineral Occurrence

Commodities: Magnetite, Copper, Iron, Silver, Gold

Minerals
Significant: Magnetite, Chalcopyrite, Specularite, Pyrite, Copper, Chalcocite, Bornite, Calcite, Hematite
Associated: Pyrite
Alteration: Biotite, Orthoclase, Garnet, Epidote, Amphibole, Chlorite, Tourmaline, Diopside
Alteration Type: Skarn, Potassic, Biotite
Mineralization Age: Unknown

Deposit
Character: Massive, Disseminated, Vein
Classification: Replacement, Skarn, Industrial Min.
Type: K01: Cu skarn, K03: Fe skarn, T01: Tailings
Shape: Tabular
Dimension: 1200x660x200 metres
Comments: Main zone

Host Rock

Dominant Host Rock: Sedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	------
Triassic-Jurassic	------	------	Guichon Creek Batholith

Isotopic Age	Dating Method	Material Dated
------	------	------
------	------	-

Lithology: Limestone, Limy Tuff, Tuff, Greywacke, Quartz Diorite, Granodiorite, Agglomerate, Andesitic Flow, Actinolite Skarn, Epidote Garnet Skarn
Comments: Also argillite, diorite and andesite.

Geological Setting

Tectonic Belt: Intermontane
Physiographic Area: Thompson Plateau

Terrane: Quesnel

Grade: Hornfels

Inventory

Ore Zone: TAILINGS

Category: Proven

Quantity: 1,000,000 tonnes

Year: 1991

Report On: Y

NI 43-101: N

Commodity	Grade
Magnetite	100.0000 per cent

Comments: In excess of 1 million tonnes of magnetite in the southerly one- quarter of the tailings; grade not given.

Reference: J. Harris (Yorkshire Resources), personal communication, 1992.

Summary Production

	Metric		Imperial	
Mined:	33,416,917	tonnes	36,835,845	tons
Milled:	35,561,139	tonnes	39,199,445	tons

Recovery				
Silver	242,510	grams	7,797	ounces
Gold	77,851	grams	2,503	ounces
Magnetite	1,135,000,000	kilograms	2,502,246,676	pounds
Iron	445,121,144	kilograms	981,324,144	pounds
Copper	402,704,469	kilograms	887,811,382	pounds

Capsule Geology

The Promontory Hills area is underlain by a complex east- northeast trending, steeply dipping volcanic pile of Upper Triassic Nicola Group rocks, bounded to the north by the multistage Early Jurassic-Late Triassic Guichon Creek batholith and unconformably overlain by the Middle and Upper Cretaceous Spences Bridge Group. Most of the area is covered by extensive gravel overburden.

In the vicinity of Craigmont mine, the Border phase of the Guichon Creek batholith varies in composition from quartz diorite to granodiorite. These rocks intrude the Nicola Group, a thick volcanic and sedimentary series of agglomerate, breccia, andesitic flows, limestone, argillite and greywacke. Attitudes parallel the intrusive contact zone. Sediments immediately adjacent to the batholith are hornfelsed quartzofeldspathic greywackes. Spences Bridge Group agglomerates and flows dip approximately 15 degrees to the south and outcrop in the areas south and west of the mine.

The mine lies adjacent to the southern margin of the Guichon Creek batholith. Host rocks to the mineralization are calcareous sedimentary rocks of the Nicola Group comprised of limestones, limy tuffs, greywackes and argillites.

The gross structure at the mine is a large anticline with ore- bearing drag folds on the north limb. These folds plunge 60 to 70 degrees eastward and are often occupied by diorite dykes. The anticline is cut off by a northwest trending fault on the west and an east trending fault on the south. Orebodies lie within a block bounded by these regional faults and the Guichon Creek intrusive.

Alteration mineralogy indicates thermal zoning. Within the hornfelsed zone, greywackes contain biotite and actinolite and limestone is altered to marble. Immediately to the south is a massive actinolite skarn which, in places, is further altered to epidote and garnet (grossularite, andradite).

Three types of alteration are present. First is a zone of potassic alteration with a related (second) distal hornfels. Third is skarn alteration which overprints the potassic alteration and some of the hornfels. The skarn is garnet-epidote-amphibolite in composition with some chlorite, tourmaline and sericite.

Semi-continuous ore is found over a strike length of 900 metres and a vertical depth of 600 metres. The five main orebodies are confined to the limy horizon between walls of greywacke and andesite.

Mineralization consists of magnetite, hematite and chalcopyrite and occur as massive pods, lenses and disseminations extending through the

calc-silicate horizon. The body is roughly tabular, trends east and dips near vertically. Minor folding and faulting is present but do not significantly distort the mineralization. Chalcopyrite is associated with, but post-dates the magnetite and commonly encloses the magnetite.

Chalcopyrite is the principal ore mineral and occurs as veins, streaks, patches and coarse disseminations. It was first deposited with magnetite during the development of the actinolite skarn and later with specularite as fracture-fillings and veins. Bornite is present in small amounts. Pyrite is confined to areas of heavy garnet alteration. Approximately 20 per cent of the ore (by weight) is comprised of magnetite and hematite and along with actinolite, epidote, grossularite, andradite, pyrite and minor diopside, occur in the skarn. Supergene minerals, native copper and chalcocite, occur in a narrow oxidized zone immediately above the orebody. The apparent ore controls are favourable host rock, folding and brecciation of host rock, and proximity to the batholith.

The original Craigmont copper mine went into production in 1962, with underground mining ceasing in February 1982 as a result of the falling price of copper. The concentrator remained in operation processing the iron ore stockpiles until November 1982, when it was also shut down.

From the commencement of its operation in 1962 until 1970, Craigmont Mines Limited did not recover the magnetite in its milling process, and on a material-balance basis there is estimated to be in the order of 5 million tonnes of magnetite in the tailings deposit. The company reports that exploration completed in 1991 proved the presence of in excess of 1 million tonnes of magnetite in the southerly one-quarter of the tailings.

Since the cessation of production in 1982, magnetite has been shipped from the stockpiles at Craigmont to western Canadian and United States coal producers, to be used as an essential component in their heavy media separation process.

Magnetite remaining in the original stockpiles as of 1992 represents approximately three years of industry requirements, based on the current level of usage. In order to replenish the stockpiles, in 1991 the company applied for the necessary government permits to construct a facility to recover the magnetite from the old tailings deposit. Production from the plant is scheduled to commence in the fall of 1992 (J. Harris (Yorkshire Resources), personal communication, 1992).

Seven Industries Inc. continues to produce about 60,000 tonnes per year of magnetite by processing the Craigmont tailings. The quality of the product has improved and the company is supplying most coal mines in western Canada (except Manalta and Line Creek). The company has filed a conceptual design to create a new tailings storage dam (on top of the old one) which would allow the operation to continue for at least another 15 years (Information Circular 1996-1, page 10).

M Seven is reported to have operated the Craigmont tailings up to and including 2001.

In 2002, it was reported that Craigmont Holdings Ltd. owned the Craigmont magnetite tailings operation which is setup to process the tailings and recover about 70,000 tonnes of magnetite annually.

In 2003, Craigmont Mines Ltd processesed tailings from the old Craigmont copper mine and produced 45,000 tonnes of magnetite although the operation is setup up to recover up to 70,000 tonnes of magnetite annually. The magnetite is used in coal washing plants in British Columbia, Alberta and Washington State. The company is evaluating other magnetite sources, both on and off the property, as well as potential markets for hematite, which may also be recoverable.

In 2004, Craigmont Mines Ltd signed an option agreement with Christopher James Gold Corp to purchase 50% of the 70,000 tonne of per year magnetite operation for $3.5 million.

Craigmont Mines Ltd operates the Craigmont magnetite tailings operation located near Merritt, which employs about 30 people. Tailings from the old Craigmont copper mine are processed to recover about 70 000 tonnes of magnetite annually. The plant normally operates on a seasonal basis (March to December), however, due to strong demand, processing is expected to continue through the 2008-2009 winter. Remaining tailings are forecast to be exhausted within the one to two years following.

Bibliography

EMPR AR *1957-28; 1958-25; *1959-31-34; *1960-26-40; *1961-A48,31-37; 1962-A48,53; 1963-A48,49; 1964-A54,92; 1965-153; 1966-A51,166; 1967-163; 1968-197

EMPR ASS RPT 22621, 23348, 22621, 28119

EMPR BULL 56

EMPR EXPL 1989-119-134; 1996-A14; 2000-36; 2001-35; 2002-44; 2003-51; 2004-55; 2005-58; 2006-7,74,79; 2007-52,56; 2008-61,64

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EMPR MAP 30; 65, 1989
EMPR MINING Vol.1 1975-1980; 1981-1985; 1986-1987
EMPR OF *1988-28, pp. 19-21; 1992-1; 1992-9; 1994-1
EMPR PF (Correspondence by J.M. Carr, G.E. Rouse and C.C. Rennie, 1961; Map of mine and concentrator; Claim and property location maps; Principal rock types recognized by Department of Mines, 1959; Magnetic anomaly plan map, 1958; Excerpt from Northern Miner Annual Review, Dec. 1961, Northern Miner Aug. 1960, Jan.25, 1962; Bristow, J.F. (1968): The Geology of Craigmont Mines; Notes and correspondence from J.M. Carr and F. Price, 1961; Article from unknown and undated newspaper, Jan.4, 1962; George Cross News Letter #237(Dec.7),1960, #53(Mar.16),1961; Interim report by E.P. Chapman, Jr., 1959; Article 'Stability of Rock Slopes' by B. Jones, 1962; Underground plans and sections, 1959, 1960, 1961; Drillhole location logs; Trench plan maps, 1959; Geology notes and sketch maps and drill sections; Report on Craigmont Mines by C.C. Rennie, 1959; Geology of the Craigmont Mine by C.C. Rennie, W.S. Pentland and C.C. Sheng, 1960; Craigmont Mines Limited Information Brochure; Exploration Guides for Craigmont Mine, Ph.D Thesis, A.D. Drummond)
EMR MP CORPFILE (Craigmont Mines Ltd.; Birkett Creek Mine Operators Ltd.; Canex Placer Ltd.; Noranda Mines Ltd.; Placer Development Ltd.)
EMR MP RESFILE (Craigmont Mine)
GSC MAP 886A
GSC MEM 249
GSC OF 980
CIM 820 (1980); Transactions 1961, Vol.64, pp. 199-203; Meeting - *J.F. Bristow, 1962)
CMH 1982-1983
GCNL Jan.10, 1967; Jan.26, 1973; Jan.31, 1974; Nov.21, 1975; June 4,Oct.18, 1976; Jan.28,Feb.22,Mar.4,May 20,Nov.21, 1977; Jan.27,Feb.27,Mar.3,May 19,31,Aug.30,Nov.23,Dec.28, 1978; Jan.26,Aug.28, #99,#101, 1979; #101,#166,#225,#246, 1980; #26,#42,#98,#224, 1981; #20,#97,#225,#231, 1982; #44,#231, 1983; #163,#228, 1984
MIN REV Sept/Oct 1981; Jan/Feb 1982; Jul/Aug 1983
N MINER Oct.2, 1975; Jan.6, 1977; Feb.2,June 1,22,Aug.24,Oct.12, 1978; Jan.4,18,25, 1979; Jan.3, 1980; Dec.3, 1981; Jan.7,Feb.11,Apr.29, June 10,Aug.26,Nov.25,Dec.30, 1982; Feb.10,Mar.10, 1983
W MINER Jan.,Feb., 1962; Jan., 1977; Feb.,Apr.,June, 1979; Oct., 1980; Jan.1981; Jan.,Mar.,Apr., 1982
WWW http://www.craigmontmines.com/

Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	2009/03/10	**Revised By:**	Sarah Meredith-Jones(SMJ)	**Field Check:**	N

Location/Identification

MINFILE Number: 092ISW037

Name(s): **MARB 72**
GUS

Status: Showing

Mining Division: Nicola

Electoral District: Yale-Lillooet

Regions: British Columbia

Forest District: Cascades Forest District

BCGS Map: 092I025

NTS Map: 092I03E, 092I02W

UTM Zone: 10 (NAD 83)

Latitude: 50 12 37 N

Northing: 5563911

Longitude: 121 00 26 W

Easting: 642188

Elevation: 1300 metres

Location Accuracy: Within 500M

Comments: Outcrop, 600 metres north of Shackelly Creek and 19 kilometres northwest of Merritt (Assessment Report 735).

Mineral Occurrence

Commodities: Copper

Minerals

Significant: Pyrite, Pyrrhotite, Chalcopyrite

Associated: Magnetite

Alteration: Epidote, Garnet, Actinolite, Chlorite, Malachite

Alteration Type: Skarn, Oxidation

Mineralization Age: Unknown

Deposit

Character: Disseminated, Shear, Breccia

Classification: Skarn

Type: K01: Cu skarn

Host Rock

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	------
Triassic-Jurassic	------	------	Guichon Creek Batholith

Isotopic Age	Dating Method	Material Dated
------	------	------
------	------	------

Lithology: Quartz Diorite, Skarn, Hornfels, Pegmatite, Massive Andesite, Tuff, Agglomerate

Comments: Border phase.

Geological Setting

Tectonic Belt: Intermontane

Physiographic Area: Thompson Plateau

Terrane: Quesnel

Inventory

No inventory data

Capsule Geology

The Marb 72 showing is located in outcrop 600 metres north of Shackelly Creek and 19 kilometres northwest of Merritt.

The area is underlain by Early Jurassic-Late Triassic Guichon Creek batholith Border phase quartz diorite and Upper Triassic Nicola Group massive fine-grained and porphyritic andesites, tuffs and agglomerates. Outcrop is generally sparse. The intrusive/volcanic contact zone is brecciated, sporadically mineralized and is hornfelsed with minor magnetite. Apophyses of quartz diorite and volcanic blocks are visible within the contact zone. Gneissosity in the intrusive is parallel to the contact.

Minor disseminated pyrite and pyrrhotite occur in altered volcanic fragments and with chalcopyrite in small shears in the contact zone. One skarn outcrop appears brecciated and is comprised of epidote, garnet, actinolite and chlorite with minor chalcopyrite and trace malachite.

Bibliography

EMPR AR 1961-39
EMPR ASS RPT 232, *735, 1923, 2096, 9757, *10195
EMPR BULL 56; 62
EMPR MAP *30
GSC MAP 886A; 1010A; 1386A; 42-1989
GSC MEM 249, 262
GSC P 46-8; 47-10
CIM Spec. Vol. 15 (1976), pp. 85-104
Northcote, K.E. (1968): Geology and Geochronolgy of the Guichon Creek Batholith, British Columbia, Unpublished Ph.D. Thesis, The University of British Columbia

Date Coded:	1987/03/27	**Coded By:**	Allan Wilcox(AFW)	**Field Check:**	N
Date Revised:	1991/03/21	**Revised By:**	Shielagh N. Banfield(SNB)	**Field Check:**	N

Location/Identification

MINFILE Number: 092ISE033

Name(s): **MARB**
MARB 3, CJS, TORWEST A

Status: Showing

Regions: British Columbia

BCGS Map: 092I026

NTS Map: 092I02W

Latitude: 50 13 19 N

Longitude: 120 57 59 W

Elevation: 1463 metres

Location Accuracy: Within 500M

Mining Division: Nicola

Electoral District: Yale-Lillooet

Forest District: Cascades Forest District

UTM Zone: 10 (NAD 83)

Northing: 5565287

Easting: 645065

Mineral Occurrence

Commodities: Copper

Minerals

Significant: Chalcopyrite, Magnetite, Pyrite, Pyrrhotite

Alteration: Chlorite, Epidote

Alteration Type: Propylitic

Mineralization Age: Unknown

Deposit

Character: Breccia, Disseminated, Stockwork

Classification: Hydrothermal

Type: L04: Porphyry Cu +/- Mo +/- Au

Host Rock

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	------
Lower Jurassic	------	------	Guichon Creek Batholith

Isotopic Age	Dating Method	Material Dated
------	------	------
------	------	------

Lithology: Quartz Diorite, Diorite Breccia, Tuff, Limestone, Hornfels, Andesite

Comments: Host rock is the Border phase of the Guichon Creek batholith.

Geological Setting

Tectonic Belt: Intermontane

Terrane: Quesnel

Physiographic Area: Thompson Plateau

Metamorphic Type: Contact

Grade: Hornfels

Inventory

No inventory data

Capsule Geology

The Promontory Hills-Craigmont mine area is underlain by a complex northwest trending, steeply dipping volcanic pile of Upper Triassic Nicola Group rocks, bounded to the north by the Lower Jurassic Guichon Creek batholith and unconformably overlain by the Upper Cretaceous Kingsvale Group. Much of the area is covered by thick gravel overburden. Regional faults trend northwest.

The Marb showing is primarily underlain by medium-grained potassium feldspar-rich quartz diorite designated as the Border phase of the Guichon Creek batholith (Map 30). A jointing system and faint steeply dipping gneissosity are characteristic of this unit. Rare pyroxene-rich zones are also present. Near its southern boundary, the property is underlain by Nicola Group andesite, tuffs and limestone. Alteration includes chloritization and epidotization.

At the contact of the intrusive and the Nicola Group rocks, a wide zone of diorite breccia is developed. Two types of mineralization are found in the breccia zone. The first is disseminated magnetite, pyrite and pyrrhotite in hornfelsed volcanic fragments. Secondly, near strong chloritized shears, chalcopyrite, pyrite and pyrrhotite occurs as fine disseminations and slender veins.

The main showing is 300 metres southwest of Camp Lake. Similar mineralization is found 750 metres to the northeast and several kilometres to the southwest near Reserve 9.

Bibliography

EMPR ASS RPT 232, *735, 1923, 2096
EMPR AR 1958-27; *1961-39; 1962-51; 1966-247; 1968-199
EMPR GEM 1969-272
EMPR MAP *30
EMPR BULL 56
EMPR PF (Geology map, 1959)
GSC MEM 249
GSC OF 980
GSC MAP 886A
EMPR EXPL 1989-119-134

Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	1987/01/22	**Revised By:**	Lori K. Walters(LKW)	**Field Check:**	N

Location/Identification

MINFILE Number: 092ISE034
National Mineral Inventory Number: 092I2 Cu3
Name(s): **TITAN QUEEN**
PAYSTIN, CRAIGMONT (GREEN GROUP)

Status: Showing
Mining Division: Nicola
Electoral District: Yale-Lillooet
Regions: British Columbia
Forest District: Cascades Forest District
BCGS Map: 092I026
NTS Map: 092I02W
UTM Zone: 10 (NAD 83)
Latitude: 50 13 05 N
Northing: 5564905
Longitude: 120 56 27 W
Easting: 646900
Elevation: 1456 metres
Location Accuracy: Within 500M

Mineral Occurrence

Commodities: Copper

Minerals
Significant: Chalcopyrite, Bornite, Magnetite, Malachite
Associated: Tourmaline
Alteration: Chlorite, Silica, Malachite
Alteration Type: Propylitic, Silicific'n, Oxidation
Mineralization Age: Unknown

Deposit
Character: Vein, Disseminated
Classification: Hydrothermal, Porphyry
Type: L04: Porphyry Cu +/- Mo +/- Au

Host Rock

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Lower Jurassic	------	------	Guichon Creek Batholith

Isotopic Age	Dating Method	Material Dated
------	------	------

Lithology: Quartz Diorite, Granodiorite

Geological Setting

Tectonic Belt: Intermontane
Physiographic Area: Thompson Plateau
Terrane: Quesnel

Inventory

No inventory data

Capsule Geology

The Promontory Hills-Craigmont mine area is underlain by a complex northwest trending, steeply dipping volcanic pile of Upper Triassic Nicola Group rocks, bounded to the north by the Lower Jurassic Guichon Creek batholith and unconformably overlain by the Upper Cretaceous Kingsvale

Group. Most of the area is covered by thick gravel overburden. Regional faults trend north-northwest.

The Titan Queen showing, as it was first known, is underlain by quartz diorite to granodiorite assigned to the Border phase of the Guichon Creek batholith (Map 30). Potassium feldspar enriched dioritic rocks in fault or shear zones are intensely chloritized and silicified and host tourmaline veins. Mineralization in the veins consists of chalcopyrite, bornite, magnetite and malachite. Chalcopyrite also occurs as weak disseminations in adjacent outcrops.

Bibliography

EMPR AR 1959-31-34; *1960-26-40; 1961-31-37
EMPR ASS RPT 209, 226, 6811, 14102
EMPR BULL 56
EMPR EXPL 1977-E158; 1985-C190; 1989-119-134
EMPR MAP *30
GSC MAP 886A
GSC MEM 249
GSC OF 980

Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	1988/01/22	**Revised By:**	Lori K. Walters(LKW)	**Field Check:**	N

Location/Identification

MINFILE Number: 092ISE068

Name(s): **WP**
WHITE AND PENDLEBURY, TOP, WP 110, WP 130

Status: Showing

Mining Division: Kamloops
Electoral District: Yale-Lillooet

Regions: British Columbia
Forest District: Cascades Forest District

BCGS Map: 092I026
NTS Map: 092I02W

UTM Zone: 10 (NAD 83)
Northing: 5565480
Easting: 643077

Latitude: 50 13 27 N
Longitude: 120 59 39 W
Elevation: 1430 metres
Location Accuracy: Within 1KM
Comments: Trenches (Assessment Report 185).

Mineral Occurrence

Commodities: Copper, Mercury

Minerals
Significant: Chalcopyrite, Pyrite, Specularite, Cinnabar, Malachite
Associated: Quartz
Alteration: Epidote, Calcite, Albite
Alteration Type: Silicific'n, Epidote, Carbonate
Mineralization Age: Unknown

Deposit
Character: Disseminated, Stockwork, Vein
Classification: Hydrothermal, Epigenetic
Type: L04: Porphyry Cu +/- Mo +/- Au

Host Rock

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Nicola	Undefined Formation	------
Lower Jurassic	------	------	Guichon Creek Batholith

Isotopic Age	Dating Method	Material Dated
------	------	------
------	------	------

Lithology: Porphyritic Andesite, Quartz Diorite, Granodiorite, Pegmatite Dike, Aplite Dike, Granite

Geological Setting

Tectonic Belt: Intermontane
Physiographic Area: Thompson Plateau
Terrane: Quesnel

Inventory

No inventory data

Capsule Geology

The WP property is underlain by intermediate to mafic volcanic rocks of the Upper Triassic Nicola Group which are intruded to the north and east by dioritic to granodioritic phases of the Lower Jurassic Guichon Creek batholith. To the west, both Nicola and Guichon rocks are unconformably overlain by intermediate lavas of the Cretaceous Spences Bridge Group.

Nicola Group porphyritic andesite strikes nearly east and dips steeply south. It is intruded by quartz diorite, granite, pegmatite and aplite dykes and is highly altered and epidotized near its contact with Guichon quartz diorite to granodiorite of the Border phase of the batholith.

A steeply dipping fault zone strikes approximately north and cuts Nicola Group rocks which have been silicified, sheared, brecciated and mineralized with chalcopyrite, pyrite, specularite and minor cinnabar. In the fault zone fragments are cemented by calcite and albite. The maximum width of the mineralized zone is 60 centimetres and has been traced discontinuously for 61 metres.

A quartz vein 15 centimetres wide cuts porphyritic andesite and carries chalcopyrite and malachite mineralization.

Bibliography

EMPR ASS RPT *185, 190, 243, *245, 407, 2222
EMPR AR 1958-27; 1961-31
EMPR MAP *30
EMPR BULL 56; 62
EMPR FIELDWORK 1977, p. 31
EMPR PF (Claim location map)
GSC OF 980
GSC MEM 249
GSC MAP 886A
EMPR EXPL 1989-119-134

Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	1988/02/28	**Revised By:**	Lori K. Walters(LKW)	**Field Check:**	N

Appendix III

Activation Laboratories Ltd.
Laboratory Assay Certificates

Quality Analysis ... *Innovative Technologies*

Date Submitted: 08-Jul-16
Invoice No.: A16-06455 (i)
Invoice Date: 12-Jul-16
Your Reference:

2016 Thule Copper Flow-Through
3329 Aberdeen Rd,
Lower Nicola BC V0K 1Y0 Canada

ATTN: Warwick Bay

CERTIFICATE OF ANALYSIS

44 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A16-06455 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448151	< 5	< 0.2	0.6	329	395	2	52	< 2	46	2.69	4	< 10	115	< 0.5	< 2	2.50	30	59	7.05	< 10	2	0.21	< 10
1448152	< 5	< 0.2	< 0.5	126	417	< 1	41	9	49	2.92	< 2	< 10	142	< 0.5	< 2	2.80	26	50	6.60	10	< 1	0.26	< 10
1448153	< 5	< 0.2	< 0.5	223	363	< 1	105	< 2	41	3.40	4	< 10	123	< 0.5	< 2	2.86	40	79	6.66	< 10	1	0.23	< 10
1448154	< 5	< 0.2	< 0.5	257	755	2	11	< 2	39	2.24	10	< 10	35	< 0.5	< 2	6.11	10	9	3.70	< 10	< 1	0.05	< 10
1448155	< 5	< 0.2	< 0.5	251	575	< 1	7	< 2	48	2.16	8	< 10	35	< 0.5	< 2	4.98	11	5	4.05	< 10	< 1	0.02	< 10
1448156	< 5	< 0.2	< 0.5	54	460	2	132	< 2	47	3.74	4	10	99	< 0.5	< 2	3.41	42	88	7.21	< 10	2	0.25	< 10
1448157	< 5	< 0.2	< 0.5	52	444	< 1	121	< 2	51	3.86	< 2	11	138	< 0.5	< 2	3.13	43	87	7.65	< 10	2	0.23	< 10
1448158	< 5	< 0.2	< 0.5	315	710	< 1	29	< 2	70	3.90	2	11	52	< 0.5	< 2	7.69	18	86	2.80	10	< 1	0.08	< 10
1448159	< 5	< 0.2	< 0.5	119	396	< 1	18	< 2	60	3.19	6	12	52	< 0.5	< 2	6.85	11	29	2.44	< 10	< 1	0.08	< 10
1448160	485	5.1	4.8	4990	758	138	15	101	864	1.60	25	< 10	16	< 0.5	< 2	0.62	16	23	5.97	< 10	< 1	0.37	< 10
1448161	< 5	< 0.2	< 0.5	145	580	< 1	19	< 2	51	3.23	6	13	67	< 0.5	< 2	6.96	13	32	3.17	< 10	< 1	0.09	< 10
1448162	< 5	< 0.2	< 0.5	214	341	1	15	< 2	40	2.99	8	15	104	< 0.5	< 2	5.00	13	23	2.07	< 10	< 1	0.16	< 10
1448163	< 5	< 0.2	< 0.5	214	316	< 1	42	< 2	63	3.26	4	15	116	< 0.5	< 2	4.91	16	32	2.49	< 10	< 1	0.18	< 10
1448164	< 5	< 0.2	< 0.5	708	586	< 1	30	7	104	2.59	7	< 10	57	< 0.5	< 2	6.24	30	17	4.57	< 10	< 1	0.07	< 10
1448165	< 5	< 0.2	< 0.5	218	630	< 1	20	< 2	48	2.51	< 2	< 10	35	< 0.5	< 2	7.30	12	23	3.38	< 10	< 1	0.06	< 10
1448166	< 5	< 0.2	< 0.5	5	299	5	2	9	24	0.43	< 2	< 10	34	0.6	< 2	0.46	1	21	1.09	< 10	< 1	0.22	76
1448167	< 5	< 0.2	< 0.5	183	676	< 1	8	< 2	39	2.50	5	< 10	41	< 0.5	< 2	7.46	15	22	4.30	< 10	2	0.10	< 10
1448168	< 5	< 0.2	< 0.5	65	295	2	10	< 2	34	1.64	3	< 10	65	< 0.5	< 2	1.86	14	29	3.69	< 10	1	0.25	< 10
1448169	< 5	< 0.2	< 0.5	248	405	1	19	< 2	31	2.78	9	12	40	< 0.5	< 2	5.23	18	18	4.01	< 10	< 1	0.08	< 10
1448170	410	2.5	2.9	2490	965	19	20	66	647	2.28	59	< 10	18	< 0.5	< 2	1.01	15	33	5.41	< 10	< 1	0.45	< 10
1448171	< 5	< 0.2	< 0.5	301	397	1	17	< 2	34	2.24	6	10	41	< 0.5	< 2	4.10	23	19	3.13	< 10	1	0.10	< 10
1448172	< 5	< 0.2	< 0.5	402	655	1	15	< 2	35	2.74	8	< 10	23	< 0.5	< 2	6.54	26	25	3.65	< 10	1	0.02	< 10
1448173	28	0.4	< 0.5	3190	225	2	6	5	22	1.69	8	< 10	17	< 0.5	< 2	2.83	9	14	2.29	< 10	< 1	0.04	< 10
1448174	< 5	< 0.2	< 0.5	301	416	< 1	15	< 2	37	1.70	6	< 10	36	< 0.5	< 2	4.12	29	14	3.40	< 10	< 1	0.09	< 10
1448175	< 5	< 0.2	< 0.5	120	280	2	20	< 2	18	1.69	4	< 10	24	< 0.5	< 2	3.52	36	11	3.37	< 10	< 1	0.07	< 10
1448176	< 5	< 0.2	< 0.5	92	266	3	15	< 2	24	1.83	7	< 10	19	< 0.5	< 2	3.19	39	14	3.34	< 10	< 1	0.05	< 10
1448177	< 5	< 0.2	< 0.5	172	241	2	13	< 2	25	1.98	6	< 10	26	< 0.5	< 2	3.37	37	10	2.99	< 10	< 1	0.05	< 10
1448178	< 5	< 0.2	< 0.5	511	288	< 1	26	< 2	28	2.07	7	< 10	38	< 0.5	< 2	3.63	43	10	2.95	< 10	< 1	0.07	< 10
1448179	< 5	< 0.2	< 0.5	439	531	< 1	52	< 2	37	2.54	11	< 10	47	< 0.5	< 2	6.38	42	12	3.55	< 10	< 1	0.06	< 10
1448180	< 5	< 0.2	< 0.5	3	263	3	1	9	22	0.41	< 2	< 10	33	0.6	< 2	0.36	< 1	15	0.98	< 10	< 1	0.22	68
1448181	< 5	< 0.2	< 0.5	76	397	< 1	164	< 2	41	3.33	2	< 10	99	< 0.5	< 2	3.20	48	107	5.38	< 10	< 1	0.20	< 10
1448182	< 5	< 0.2	< 0.5	78	324	1	123	< 2	31	4.11	7	11	99	< 0.5	< 2	3.77	35	93	4.58	< 10	< 1	0.24	< 10
1448183	< 5	< 0.2	< 0.5	56	333	< 1	128	< 2	36	4.29	< 2	< 10	111	< 0.5	< 2	3.39	39	113	5.25	< 10	< 1	0.19	< 10
1448184	< 5	< 0.2	< 0.5	562	299	1	40	< 2	25	2.87	< 2	< 10	68	< 0.5	< 2	3.27	30	53	3.91	< 10	1	0.13	< 10
1448185	< 5	< 0.2	< 0.5	115	368	< 1	38	< 2	30	3.28	< 2	< 10	96	< 0.5	< 2	4.07	17	67	3.90	< 10	1	0.17	< 10
1448186	< 5	< 0.2	< 0.5	291	278	< 1	54	< 2	28	3.14	4	< 10	72	< 0.5	< 2	3.09	24	48	5.10	< 10	< 1	0.19	< 10
1448187	< 5	< 0.2	0.5	58	259	1	59	< 2	27	3.28	< 2	< 10	86	< 0.5	< 2	2.92	24	54	5.58	< 10	< 1	0.22	< 10
1448188	< 5	< 0.2	< 0.5	100	295	1	58	< 2	34	3.69	< 2	< 10	76	< 0.5	< 2	3.16	26	49	5.70	10	1	0.20	< 10
1448189	< 5	< 0.2	< 0.5	66	279	< 1	62	< 2	33	3.78	2	< 10	76	< 0.5	< 2	3.07	30	48	5.65	10	< 1	0.21	< 10
1448190	13	2.4	0.8	3570	284	258	213	20	158	2.27	29	< 10	22	< 0.5	< 2	1.17	34	225	4.04	< 10	< 1	1.13	< 10
1448191	< 5	< 0.2	< 0.5	70	326	2	80	< 2	36	3.99	< 2	< 10	79	< 0.5	< 2	3.61	32	62	6.36	10	< 1	0.21	< 10
1448192	< 5	< 0.2	0.8	2390	302	< 1	52	< 2	29	3.12	< 2	< 10	56	< 0.5	< 2	3.50	24	44	5.52	< 10	< 1	0.13	< 10
1448193	< 5	< 0.2	< 0.5	9	302	2	3	10	25	0.44	< 2	< 10	36	0.6	< 2	0.48	1	12	0.99	< 10	< 1	0.20	72
1448194	< 5	< 0.2	< 0.5	176	296	< 1	53	< 2	34	3.78	7	< 10	104	< 0.5	< 2	3.40	28	44	6.27	10	6	0.21	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448151	1.68	0.255	0.075	0.26	3	11	111	0.26	< 20	2	< 2	< 10	225	< 10	11	7
1448152	1.72	0.183	0.057	0.08	3	7	102	0.28	< 20	2	< 2	< 10	189	< 10	7	5
1448153	2.16	0.344	0.031	0.11	3	5	218	0.18	< 20	< 1	< 2	< 10	172	< 10	5	6
1448154	1.21	0.062	0.074	0.05	3	5	153	0.14	< 20	< 1	< 2	< 10	41	< 10	22	5
1448155	1.84	0.034	0.030	0.15	9	4	179	0.14	< 20	< 1	< 2	< 10	32	< 10	31	14
1448156	3.24	0.359	0.044	0.03	4	7	185	0.22	< 20	< 1	2	< 10	168	< 10	7	9
1448157	2.76	0.322	0.023	0.04	5	4	227	0.16	< 20	3	< 2	< 10	182	< 10	4	6
1448158	1.74	0.068	0.060	0.10	3	11	116	0.17	< 20	1	< 2	< 10	62	< 10	7	5
1448159	1.24	0.076	0.059	0.02	< 2	5	74	0.19	< 20	< 1	< 2	< 10	60	< 10	8	9
1448160	0.40	0.053	0.052	4.37	3	2	43	0.04	< 20	1	< 2	< 10	31	< 10	5	3
1448161	1.04	0.083	0.089	0.02	< 2	8	64	0.22	< 20	4	< 2	< 10	76	< 10	10	6
1448162	0.81	0.116	0.097	0.14	< 2	5	87	0.20	< 20	< 1	3	< 10	40	< 10	11	7
1448163	0.99	0.164	0.061	0.05	< 2	6	97	0.21	< 20	3	< 2	< 10	63	< 10	10	12
1448164	0.91	0.067	0.148	0.17	3	16	94	0.16	< 20	5	< 2	< 10	71	< 10	8	4
1448165	0.59	0.052	0.098	0.03	3	10	68	0.17	< 20	2	3	< 10	66	< 10	8	4
1448166	0.11	0.114	0.014	0.01	< 2	1	18	0.02	30	< 1	< 2	< 10	11	< 10	20	13
1448167	0.60	0.066	0.094	0.12	4	9	44	0.27	< 20	< 1	< 2	< 10	99	< 10	17	7
1448168	0.73	0.127	0.064	0.21	6	6	37	0.28	< 20	4	< 2	< 10	106	< 10	13	9
1448169	1.14	0.093	0.090	0.79	3	8	82	0.24	< 20	< 1	< 2	< 10	58	< 10	15	18
1448170	0.59	0.096	0.070	3.60	4	3	62	0.04	< 20	3	< 2	< 10	34	< 10	6	3
1448171	0.85	0.116	0.101	0.50	2	9	55	0.27	< 20	5	< 2	< 10	79	< 10	13	8
1448172	0.98	0.077	0.088	0.06	3	14	69	0.30	< 20	4	< 2	< 10	89	< 10	19	12
1448173	0.60	0.070	0.061	0.15	4	6	101	0.23	< 20	< 1	< 2	< 10	69	< 10	16	7
1448174	0.93	0.080	0.108	1.37	2	7	51	0.19	< 20	< 1	< 2	< 10	48	< 10	13	7
1448175	0.75	0.093	0.126	2.26	3	5	45	0.28	< 20	3	< 2	< 10	50	< 10	19	24
1448176	1.06	0.096	0.090	1.96	< 2	8	47	0.28	< 20	4	< 2	< 10	58	< 10	18	24
1448177	0.85	0.089	0.086	1.61	3	6	46	0.21	< 20	< 1	< 2	< 10	45	< 10	17	14
1448178	0.94	0.101	0.089	1.43	< 2	8	61	0.17	< 20	4	< 2	< 10	47	< 10	18	6
1448179	1.43	0.082	0.087	0.57	4	11	85	0.17	< 20	4	< 2	< 10	66	< 10	13	7
1448180	0.11	0.111	0.013	0.02	< 2	1	16	0.02	30	2	< 2	< 10	11	< 10	19	12
1448181	2.78	0.213	0.025	0.09	4	3	142	0.12	< 20	< 1	< 2	< 10	83	< 10	3	5
1448182	2.38	0.241	0.028	0.08	< 2	3	211	0.16	< 20	3	< 2	< 10	100	< 10	3	4
1448183	2.48	0.300	0.024	0.08	5	3	220	0.16	< 20	4	< 2	< 10	116	< 10	2	4
1448184	1.24	0.156	0.048	0.49	3	7	142	0.17	< 20	< 1	< 2	< 10	112	< 10	6	5
1448185	1.45	0.177	0.029	0.03	3	6	165	0.18	< 20	< 1	< 2	< 10	133	< 10	4	4
1448186	1.62	0.215	0.020	0.05	3	4	144	0.21	< 20	2	< 2	< 10	148	< 10	4	5
1448187	1.51	0.264	0.015	0.04	4	4	167	0.21	< 20	< 1	< 2	< 10	181	< 10	4	4
1448188	1.68	0.316	0.011	0.05	3	4	217	0.21	< 20	< 1	< 2	< 10	184	< 10	3	4
1448189	1.77	0.288	0.019	0.04	3	4	226	0.20	< 20	< 1	< 2	< 10	171	< 10	4	4
1448190	2.36	0.097	0.096	2.47	6	7	68	0.16	< 20	< 1	< 2	< 10	90	< 10	7	3
1448191	1.90	0.346	0.021	0.05	2	4	256	0.17	< 20	2	< 2	< 10	185	< 10	3	4
1448192	1.75	0.200	0.027	0.26	3	4	148	0.19	< 20	< 1	< 2	< 10	155	< 10	4	5
1448193	0.14	0.101	0.014	0.02	< 2	1	21	0.02	30	8	< 2	< 10	13	< 10	19	11
1448194	1.78	0.318	0.043	0.04	< 2	3	231	0.22	< 20	2	< 2	< 10	191	< 10	2	3

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.1	2.4	1120	741	14	33	567	679	0.31	385	< 10	205	0.7	1390	0.75	6	8	22.7	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.6	< 0.5	6880	136	347	38	41	72	2.75	108	< 10	20	1.3	5	0.90	14	63	3.36	10	< 1	1.61	50
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	< 0.5	73	1020	2	26	90	119	6.62	244	< 10	672	0.7	< 2	0.11	13	88	6.19	20	2	1.06	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SAR-M (U.S.G.S.) Meas		3.3	4.5	331	4170	13	38	987	949	1.11	39		175	1.0	< 2	0.32	10	98	2.90	< 10		0.27	63
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
SF67 Meas	839																						
SF67 Cert	835																						
SF67 Meas	884																						
SF67 Cert	835																						
SE68 Meas	616																						
SE68 Cert	599																						
SE68 Meas	592																						
SE68 Cert	599																						
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2290	736	< 1	35	49	251	2.81	< 2		82	0.7	2	0.42	19	51	5.49	< 10		0.45	40
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.5	< 0.5	4320	818	< 1	27	71	314	2.70	7		64	0.6	10	0.41	23	44	6.05	< 10		0.38	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
1448155 Orig	< 5																						
1448155 Dup	< 5																						
1448163 Orig		< 0.2	< 0.5	214	317	< 1	42	< 2	62	3.29	5	15	116	< 0.5	< 2	4.96	16	31	2.49	< 10	< 1	0.18	< 10
1448163 Dup		< 0.2	< 0.5	215	316	< 1	42	< 2	63	3.22	4	15	116	< 0.5	< 2	4.87	15	32	2.49	< 10	< 1	0.18	< 10
1448173 Orig	29																						
1448173 Dup	27																						
1448177 Orig		< 0.2	< 0.5	173	242	2	13	< 2	24	1.98	6	< 10	26	0.5	< 2	3.40	38	10	3.01	< 10	< 1	0.05	< 10
1448177 Dup		< 0.2	< 0.5	172	239	3	13	< 2	25	1.98	5	< 10	26	< 0.5	< 2	3.33	37	10	2.97	< 10	< 1	0.05	< 10
1448183 Orig	< 5																						
1448183 Dup	< 5																						
1448190 Orig	13	2.4	0.8	3540	281	254	211	20	157	2.25	27	< 10	23	< 0.5	< 2	1.16	34	222	4.02	< 10	< 1	1.12	< 10
1448190 Dup	13	2.3	0.8	3610	288	262	214	21	159	2.29	30	< 10	22	< 0.5	< 2	1.18	34	227	4.07	< 10	< 1	1.13	< 10
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.12	0.046	0.040	0.20	70	1	152	< 0.01	< 20	10	< 2	32	79	126	30	18
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.55	0.133	0.129	1.93	3	7	72	0.14	< 20	< 1	2	< 10	84	13	11	10
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.37	0.075	0.034	0.01	4	16	23		< 20	< 1	< 2	< 10	175	< 10	4	9
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.32	0.037	0.067		4	4	33	0.06	< 20	< 1	< 2	< 10	36	< 10	27	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SE68 Meas																
SE68 Cert																
SE68 Meas																
SE68 Cert																
OREAS 922 (AQUA REGIA) Meas	1.28	0.032	0.063	0.39	2	4	16		< 20		< 2	< 10	37	< 10	21	16
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.32		0.059	0.63	3	4	14		< 20		< 2	< 10	35	< 10	20	39
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
1448155 Orig																
1448155 Dup																
1448163 Orig	0.98	0.164	0.060	0.05	4	6	97	0.21	< 20	2	< 2	< 10	63	< 10	10	11
1448163 Dup	0.99	0.164	0.061	0.05	< 2	6	96	0.21	< 20	5	< 2	< 10	63	< 10	10	12
1448173 Orig																
1448173 Dup																
1448177 Orig	0.86	0.090	0.087	1.61	3	6	46	0.21	< 20	< 1	< 2	< 10	45	< 10	17	16
1448177 Dup	0.85	0.089	0.086	1.61	3	6	45	0.20	< 20	6	< 2	< 10	44	< 10	17	13
1448183 Orig																
1448183 Dup																
1448190 Orig	2.34	0.095	0.095	2.47	6	7	67	0.16	< 20	2	< 2	< 10	89	< 10	7	3
1448190 Dup	2.37	0.099	0.097	2.48	7	7	68	0.16	< 20	< 1	< 2	< 10	91	< 10	7	3
Method Blank																
Method Blank																
Method Blank																
Method Blank																

Quality Analysis ... *Innovative Technologies*

Date Submitted:	18-Jul-16
Invoice No.:	A16-06905
Invoice Date:	27-Jul-16
Your Reference:	THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

56 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A16-06905**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448201		< 0.2	< 0.5	98	318	< 1	53	< 2	33	2.96	4	< 10	112	< 0.5	< 2	2.83	28	73	6.98	< 10	2	0.14	< 10
1448202		< 0.2	< 0.5	51	450	< 1	166	< 2	45	4.06	< 2	10	178	< 0.5	< 2	3.19	53	101	6.93	< 10	2	0.19	< 10
1448203		< 0.2	< 0.5	136	442	< 1	43	< 2	57	2.36	< 2	< 10	347	< 0.5	< 2	1.96	31	41	6.48	< 10	1	0.26	< 10
1448204		< 0.2	< 0.5	71	612	< 1	36	3	41	2.57	3	< 10	75	< 0.5	< 2	4.68	21	39	4.75	< 10	< 1	0.08	< 10
1448205		< 0.2	< 0.5	65	392	< 1	103	< 2	39	3.28	< 2	< 10	125	< 0.5	< 2	3.04	37	83	5.58	< 10	1	0.17	< 10
1448206		< 0.2	< 0.5	350	451	< 1	73	< 2	50	2.84	2	< 10	169	< 0.5	< 2	2.77	42	49	9.22	10	< 1	0.19	< 10
1448207		< 0.2	< 0.5	201	452	< 1	55	< 2	32	2.28	4	< 10	72	< 0.5	< 2	4.07	25	62	3.83	< 10	< 1	0.09	< 10
1448208		< 0.2	< 0.5	199	409	< 1	28	< 2	32	2.76	5	11	114	< 0.5	< 2	5.12	12	39	1.83	< 10	< 1	0.08	< 10
1448209		< 0.2	< 0.5	383	431	< 1	15	< 2	31	2.92	8	12	89	< 0.5	< 2	5.33	18	8	2.72	< 10	< 1	0.05	< 10
1448210		2.0	1.0	3320	274	255	215	18	151	2.23	24	< 10	37	< 0.5	< 2	1.22	33	218	3.66	< 10	< 1	1.09	< 10
1448211		< 0.2	< 0.5	422	349	2	37	< 2	36	2.16	6	< 10	57	< 0.5	< 2	3.95	27	33	2.93	< 10	< 1	0.10	< 10
1448212		< 0.2	< 0.5	134	662	< 1	17	< 2	39	2.91	7	< 10	57	< 0.5	< 2	6.93	12	13	2.84	< 10	< 1	0.06	< 10
1448213		< 0.2	< 0.5	167	480	< 1	10	< 2	95	3.04	6	12	60	0.6	< 2	5.94	12	10	3.09	< 10	< 1	0.07	< 10
1448214		< 0.2	< 0.5	204	336	< 1	12	< 2	48	2.67	8	14	85	< 0.5	< 2	4.67	11	10	2.04	< 10	< 1	0.12	12
1448215		< 0.2	< 0.5	286	325	< 1	15	< 2	42	1.89	6	< 10	82	< 0.5	< 2	3.28	17	17	2.54	< 10	< 1	0.11	< 10
1448216		< 0.2	< 0.5	169	266	< 1	8	< 2	26	1.99	2	11	40	< 0.5	< 2	3.35	16	12	1.91	< 10	< 1	0.08	< 10
1448217		< 0.2	< 0.5	199	686	< 1	27	< 2	50	2.81	8	12	52	< 0.5	< 2	5.78	32	16	3.55	< 10	< 1	0.08	< 10
1448218		< 0.2	< 0.5	125	472	< 1	9	< 2	39	2.92	8	13	31	0.6	< 2	6.05	17	15	1.81	< 10	< 1	0.04	< 10
1448219		< 0.2	< 0.5	56	652	< 1	9	< 2	25	2.28	7	< 10	41	< 0.5	< 2	5.82	17	14	3.56	< 10	< 1	0.07	< 10
1448220		5.1	5.3	5110	746	138	16	101	841	1.62	25	< 10	16	< 0.5	3	0.65	14	23	5.84	< 10	< 1	0.36	< 10
1448221		< 0.2	< 0.5	188	643	1	4	< 2	24	2.08	5	< 10	38	< 0.5	< 2	6.42	15	11	3.38	< 10	< 1	0.06	< 10
1448222		< 0.2	< 0.5	141	691	< 1	10	< 2	33	2.11	5	< 10	36	< 0.5	< 2	6.19	35	14	3.99	< 10	< 1	0.05	< 10
1448223		< 0.2	< 0.5	89	724	< 1	5	< 2	29	2.41	6	< 10	31	< 0.5	< 2	7.15	7	10	2.54	< 10	< 1	0.02	< 10
1448224		< 0.2	< 0.5	83	746	< 1	6	< 2	39	2.43	4	< 10	36	< 0.5	< 2	7.24	11	9	2.37	< 10	1	0.02	< 10
1448225		< 0.2	< 0.5	412	319	< 1	35	< 2	47	3.18	3	< 10	98	< 0.5	< 2	4.20	22	20	2.91	< 10	< 1	0.03	< 10
1448226		< 0.2	< 0.5	128	412	< 1	122	< 2	40	3.86	< 2	10	182	< 0.5	< 2	3.69	43	109	3.79	< 10	< 1	0.17	< 10
1448227		< 0.2	< 0.5	197	424	< 1	179	< 2	45	4.51	< 2	< 10	217	< 0.5	< 2	3.17	49	158	5.41	< 10	< 1	0.22	< 10
1448228		< 0.2	< 0.5	40	493	< 1	17	< 2	30	3.10	2	10	54	< 0.5	< 2	6.55	13	21	2.42	< 10	< 1	0.05	< 10
1448229		< 0.2	< 0.5	60	629	< 1	42	< 2	35	3.28	5	< 10	51	< 0.5	< 2	6.46	18	46	4.00	< 10	< 1	0.05	< 10
1448230		< 0.2	< 0.5	3	264	1	1	7	21	0.46	< 2	< 10	43	0.6	< 2	0.40	1	9	1.01	< 10	< 1	0.23	61
1448231		< 0.2	< 0.5	74	294	< 1	94	< 2	28	4.63	< 2	< 10	124	< 0.5	< 2	3.90	32	80	4.69	< 10	< 1	0.17	< 10
1448232		< 0.2	< 0.5	28	389	< 1	78	< 2	37	4.78	2	< 10	144	< 0.5	< 2	3.75	34	61	6.02	10	2	0.18	< 10
1448233		< 0.2	< 0.5	87	389	< 1	67	< 2	39	4.12	< 2	< 10	168	< 0.5	< 2	3.46	33	61	5.72	10	1	0.19	< 10
1448234		< 0.2	< 0.5	66	385	< 1	66	< 2	39	3.55	< 2	< 10	175	< 0.5	< 2	3.38	28	59	5.13	10	< 1	0.32	< 10
1448235		< 0.2	< 0.5	108	240	< 1	49	< 2	19	3.36	< 2	< 10	54	< 0.5	< 2	3.87	60	38	4.30	10	< 1	0.13	< 10
1448236		< 0.2	< 0.5	49	324	< 1	54	< 2	32	3.97	< 2	< 10	114	< 0.5	< 2	3.52	30	47	5.63	10	1	0.21	< 10
1448237		< 0.2	< 0.5	47	352	< 1	43	< 2	38	3.22	2	< 10	95	< 0.5	< 2	3.29	24	41	4.69	< 10	2	0.18	< 10
1448238	5	< 0.2	< 0.5	47	415	< 1	62	< 2	43	3.11	< 2	< 10	74	< 0.5	< 2	2.88	30	50	5.01	< 10	1	0.13	< 10
1448239	< 5	< 0.2	< 0.5	257	310	< 1	66	< 2	31	4.29	< 2	< 10	104	< 0.5	< 2	3.42	29	56	5.74	10	2	0.15	< 10
1448240	8	2.4	3.1	2450	911	19	22	61	607	2.23	49	< 10	22	< 0.5	< 2	0.98	14	33	4.96	< 10	< 1	0.43	< 10
1448241	26	< 0.2	< 0.5	108	266	< 1	53	< 2	33	3.15	< 2	< 10	106	< 0.5	< 2	2.99	26	51	5.08	< 10	< 1	0.18	< 10
1448242	< 5	< 0.2	< 0.5	148	284	< 1	57	< 2	41	3.12	< 2	< 10	177	< 0.5	< 2	2.85	26	63	5.26	< 10	2	0.23	< 10
1448243	< 5	< 0.2	< 0.5	285	272	< 1	60	< 2	45	3.09	< 2	< 10	197	< 0.5	< 2	2.84	25	63	4.84	< 10	1	0.29	< 10
1448244	< 5	< 0.2	< 0.5	122	327	1	56	< 2	38	3.09	3	< 10	142	< 0.5	< 2	2.88	28	55	4.85	< 10	< 1	0.20	< 10
1448245	< 5	< 0.2	< 0.5	196	289	< 1	32	< 2	49	2.44	< 2	< 10	150	< 0.5	< 2	2.67	22	39	4.94	< 10	< 1	0.23	< 10
1448246	705	< 0.2	< 0.5	114	349	2	28	< 2	42	2.07	< 2	< 10	144	< 0.5	< 2	2.22	21	38	4.57	< 10	< 1	0.25	< 10
1448247	< 5	< 0.2	< 0.5	74	440	1	40	< 2	41	2.20	< 2	< 10	119	< 0.5	< 2	2.71	23	35	4.21	< 10	< 1	0.26	< 10
1448248	< 5	< 0.2	< 0.5	134	318	1	25	2	36	2.02	< 2	< 10	103	< 0.5	< 2	2.12	19	34	3.98	< 10	< 1	0.21	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448249	< 5	< 0.2	< 0.5	58	199	< 1	10	< 2	20	1.28	< 2	< 10	106	< 0.5	< 2	1.28	10	17	2.57	< 10	< 1	0.21	22
1448250	< 5	2.1	1.2	3530	282	256	212	19	156	2.31	26	< 10	29	< 0.5	< 2	1.24	34	227	3.74	< 10	< 1	1.12	< 10
1448251	< 5	< 0.2	< 0.5	255	409	3	31	< 2	44	2.31	< 2	< 10	246	< 0.5	< 2	3.02	26	42	5.00	< 10	3	0.26	< 10
1448252	< 5	< 0.2	< 0.5	320	292	2	12	2	33	1.94	2	< 10	164	< 0.5	< 2	2.35	18	28	4.35	< 10	< 1	0.19	< 10
1448253	< 5	< 0.2	< 0.5	620	331	< 1	16	< 2	29	2.16	< 2	< 10	70	< 0.5	< 2	2.86	18	27	4.15	< 10	< 1	0.18	< 10
1448254	< 5	< 0.2	< 0.5	236	447	1	11	3	31	1.76	< 2	< 10	80	< 0.5	< 2	2.86	13	22	3.62	< 10	< 1	0.17	< 10
1448255	< 5	< 0.2	< 0.5	218	452	< 1	16	< 2	38	2.25	< 2	< 10	68	< 0.5	< 2	4.01	17	26	4.14	< 10	< 1	0.18	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448201	1.32	0.361	0.049	0.09	4	8	150	0.19	< 20	< 1	< 2	< 10	310	< 10	5	5
1448202	3.14	0.459	0.026	0.07	4	5	308	0.11	< 20	< 1	< 2	< 10	171	< 10	4	8
1448203	1.82	0.280	0.083	0.14	3	10	162	0.23	< 20	< 1	< 2	< 10	211	< 10	10	5
1448204	1.31	0.155	0.091	0.02	< 2	7	96	0.22	< 20	< 1	< 2	< 10	164	< 10	10	13
1448205	2.58	0.241	0.046	0.03	4	5	146	0.18	< 20	< 1	< 2	< 10	155	< 10	5	8
1448206	2.32	0.277	0.055	0.05	< 2	11	142	0.26	< 20	< 1	< 2	< 10	400	< 10	8	9
1448207	1.26	0.114	0.027	0.05	3	5	133	0.17	< 20	< 1	< 2	< 10	129	< 10	7	8
1448208	1.08	0.091	0.045	0.04	< 2	5	81	0.17	< 20	< 1	< 2	< 10	54	< 10	12	16
1448209	1.32	0.067	0.101	0.43	< 2	7	76	0.17	< 20	< 1	< 2	< 10	42	< 10	14	18
1448210	2.34	0.095	0.088	2.18	8	7	65	0.15	< 20	1	< 2	< 10	90	< 10	7	3
1448211	0.73	0.128	0.084	0.92	2	8	70	0.20	< 20	3	< 2	< 10	71	< 10	15	17
1448212	0.79	0.064	0.141	0.02	3	7	63	0.13	< 20	< 1	< 2	< 10	56	< 10	14	5
1448213	0.87	0.089	0.091	0.24	2	8	84	0.18	< 20	< 1	< 2	< 10	45	< 10	14	18
1448214	0.61	0.090	0.061	0.11	3	4	60	0.16	< 20	4	2	< 10	32	< 10	13	21
1448215	0.41	0.091	0.105	0.27	< 2	8	69	0.18	< 20	< 1	< 2	< 10	49	< 10	12	10
1448216	0.52	0.091	0.080	0.56	< 2	7	37	0.27	< 20	< 1	< 2	< 10	74	< 10	15	8
1448217	1.18	0.059	0.085	0.17	3	12	49	0.20	< 20	2	< 2	< 10	87	< 10	13	10
1448218	0.81	0.079	0.147	0.05	< 2	12	57	0.19	< 20	< 1	< 2	< 10	76	< 10	14	5
1448219	0.97	0.064	0.135	0.52	3	7	35	0.18	< 20	< 1	< 2	< 10	79	< 10	15	8
1448220	0.42	0.053	0.051	3.97	4	2	39	0.04	< 20	< 1	< 2	< 10	30	< 10	4	3
1448221	0.52	0.066	0.126	0.53	< 2	7	36	0.17	< 20	< 1	< 2	< 10	56	< 10	16	8
1448222	0.97	0.069	0.108	0.26	3	12	62	0.20	< 20	< 1	< 2	< 10	86	< 10	17	10
1448223	1.34	0.044	0.027	0.01	< 2	6	87	0.15	< 20	3	< 2	< 10	48	< 10	15	21
1448224	1.20	0.038	0.074	0.05	< 2	7	52	0.16	< 20	5	< 2	< 10	39	< 10	16	12
1448225	2.92	0.056	0.034	0.05	< 2	17	184	0.15	< 20	3	< 2	< 10	61	< 10	8	8
1448226	2.65	0.239	0.020	0.03	3	3	214	0.14	< 20	3	< 2	< 10	88	< 10	5	5
1448227	3.41	0.316	0.026	0.03	4	2	302	0.09	< 20	< 1	< 2	< 10	98	< 10	2	3
1448228	1.53	0.050	0.023	0.01	< 2	7	123	0.13	< 20	< 1	< 2	< 10	53	< 10	7	12
1448229	1.71	0.092	0.031	0.02	< 2	9	189	0.17	< 20	2	< 2	< 10	66	< 10	13	16
1448230	0.11	0.118	0.012	0.01	< 2	< 1	15	0.02	30	1	< 2	< 10	10	< 10	14	12
1448231	1.81	0.351	0.027	0.07	3	4	292	0.11	< 20	< 1	< 2	< 10	145	< 10	2	3
1448232	2.32	0.447	0.024	0.03	4	6	343	0.14	< 20	3	< 2	< 10	189	< 10	4	4
1448233	1.97	0.342	0.023	0.06	< 2	5	269	0.16	< 20	< 1	< 2	< 10	200	< 10	4	4
1448234	1.93	0.266	0.029	0.02	< 2	6	185	0.18	< 20	< 1	< 2	< 10	169	< 10	4	5
1448235	1.47	0.172	0.032	0.17	3	4	127	0.19	< 20	< 1	< 2	< 10	125	< 10	4	4
1448236	1.72	0.369	0.032	0.04	4	6	241	0.15	< 20	< 1	< 2	< 10	197	< 10	2	4
1448237	1.59	0.269	0.015	0.02	3	5	184	0.15	< 20	1	< 2	< 10	164	< 10	4	5
1448238	2.18	0.211	0.024	0.02	3	7	142	0.16	< 20	< 1	< 2	< 10	156	< 10	5	7
1448239	2.01	0.372	0.034	0.04	3	5	275	0.14	< 20	< 1	< 2	< 10	186	< 10	2	4
1448240	0.60	0.093	0.065	3.16	5	3	57	0.04	< 20	< 1	< 2	< 10	34	< 10	5	3
1448241	1.52	0.268	0.037	0.03	< 2	5	185	0.19	< 20	< 1	< 2	< 10	190	< 10	4	4
1448242	1.47	0.367	0.045	0.04	3	5	215	0.19	< 20	< 1	< 2	< 10	219	< 10	4	4
1448243	1.36	0.374	0.072	0.06	3	4	205	0.19	< 20	< 1	< 2	< 10	211	< 10	3	3
1448244	1.67	0.211	0.067	0.04	3	4	152	0.18	< 20	< 1	< 2	< 10	170	< 10	6	3
1448245	1.26	0.191	0.101	0.04	2	4	109	0.22	< 20	< 1	< 2	< 10	227	< 10	5	3
1448246	1.38	0.176	0.078	0.01	< 2	6	78	0.25	< 20	2	< 2	< 10	176	< 10	7	5
1448247	1.56	0.168	0.067	0.02	< 2	5	95	0.22	< 20	< 1	< 2	< 10	142	< 10	6	4
1448248	1.27	0.118	0.069	0.02	3	6	71	0.24	< 20	< 1	< 2	< 10	137	< 10	8	6

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448249	0.55	0.117	0.031	< 0.01	< 2	4	53	0.11	< 20	< 1	< 2	< 10	62	< 10	20	9
1448250	2.40	0.095	0.092	2.27	8	8	69	0.16	< 20	< 1	< 2	< 10	94	< 10	7	3
1448251	1.24	0.217	0.073	0.12	< 2	8	157	0.19	< 20	< 1	< 2	< 10	223	< 10	6	3
1448252	0.90	0.125	0.074	0.09	3	6	103	0.20	< 20	< 1	< 2	< 10	175	< 10	8	5
1448253	1.24	0.131	0.076	0.10	< 2	7	75	0.26	< 20	< 1	< 2	< 10	175	< 10	8	5
1448254	0.98	0.097	0.076	0.02	< 2	6	73	0.17	< 20	< 1	< 2	< 10	109	< 10	11	5
1448255	1.45	0.084	0.083	0.02	< 2	10	102	0.14	< 20	3	< 2	< 10	126	< 10	14	4

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		30.7	2.2	1210	791	15	37	601	673	0.36	407	< 10	167	0.8	1530	0.84	8	6	23.6	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.3	< 0.5	6370	130	333	40	40	67	2.67	102	< 10	35	1.4	14	0.95	14	61	2.97	10	< 1	1.62	42
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.2	< 0.5	71	1040	2	27	93	124	7.41	240	< 10	958	0.9	< 2	0.18	15	94	5.66	20	< 1	1.13	11
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SAR-M (U.S.G.S.) Meas		4.0	5.4	337	4300	13	44	995	982	1.12	37		223	1.1	< 2	0.36	11	105	2.92	< 10		0.26	56
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
SF67 Meas	831																						
SF67 Cert	835																						
SF67 Meas	841																						
SF67 Cert	835																						
SF67 Meas	854																						
SF67 Cert	835																						
SE68 Meas	622																						
SE68 Cert	599																						
SE68 Meas	605																						
SE68 Cert	599																						
OREAS 922 (AQUA REGIA) Meas		0.7	0.5	2290	724	< 1	36	57	256	2.85	4		102	0.7	5	0.45	21	51	5.13	< 10		0.43	38
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		2.2	< 0.5	4420	827	< 1	34	76	318	2.87	< 2		68	0.6	17	0.44	23	47	5.97	< 10		0.35	35
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
1448213 Orig		< 0.2	< 0.5	167	478	< 1	10	2	95	3.01	6	12	59	0.6	< 2	5.93	12	9	3.08	< 10	< 1	0.07	< 10
1448213 Dup		< 0.2	< 0.5	166	482	< 1	9	< 2	95	3.07	7	13	60	0.6	< 2	5.95	12	10	3.10	< 10	< 1	0.07	< 10
1448227 Orig		< 0.2	< 0.5	201	423	< 1	179	< 2	45	4.54	< 2	< 10	217	< 0.5	< 2	3.17	48	160	5.41	< 10	< 1	0.22	< 10
1448227 Dup		< 0.2	< 0.5	193	425	< 1	179	< 2	45	4.47	< 2	< 10	218	< 0.5	< 2	3.18	49	157	5.41	< 10	3	0.22	< 10
1448240 Orig		2.5	3.1	2460	922	19	23	62	612	2.26	49	< 10	23	< 0.5	< 2	0.97	15	33	5.03	< 10	< 1	0.42	< 10
1448240 Dup		2.3	3.1	2440	901	19	20	61	602	2.19	50	< 10	22	< 0.5	< 2	0.99	14	32	4.90	< 10	< 1	0.43	< 10
1448242 Orig	6																						
1448242 Dup	< 5																						
1448251 Orig	< 5	< 0.2	< 0.5	255	409	3	31	< 2	44	2.31	< 2	< 10	246	< 0.5	< 2	3.02	26	42	5.00	< 10	3	0.26	< 10
1448251 Split PREP DUP	< 5	< 0.2	< 0.5	244	416	< 1	30	< 2	44	2.39	< 2	< 10	250	< 0.5	< 2	3.10	25	40	5.07	< 10	2	0.27	< 10
1448253 Orig		< 0.2	< 0.5	601	325	< 1	16	< 2	28	2.12	< 2	< 10	68	< 0.5	< 2	2.81	19	27	4.11	< 10	< 1	0.18	< 10
1448253 Dup		< 0.2	< 0.5	639	338	< 1	16	< 2	30	2.20	< 2	< 10	71	< 0.5	< 2	2.91	18	27	4.18	< 10	< 1	0.18	< 10
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.14	0.055	0.043	0.21	89	1	168	< 0.01	< 20	3	< 2	32	86	140	25	17
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.54	0.133	0.123	1.71	4	7	68	0.13	< 20	< 1	< 2	< 10	83	12	11	11
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.41	0.084	0.036	0.02	3	23	32		< 20	< 1	< 2	< 10	183	< 10	6	9
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.35	0.039	0.069		5	4	32	0.05	< 20	< 1	< 2	< 10	37	< 10	22	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SE68 Meas																
SE68 Cert																
SE68 Meas																
SE68 Cert																
OREAS 922 (AQUA REGIA) Meas	1.34	0.032	0.063	0.37	3	4	16		< 20		< 2	< 10	37	< 10	20	35
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.48		0.061	0.67	3	4	14		< 20		< 2	< 10	36	< 10	18	39
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
1448213 Orig	0.87	0.089	0.091	0.23	2	8	84	0.18	< 20	2	< 2	< 10	44	< 10	14	18
1448213 Dup	0.88	0.090	0.091	0.24	2	8	85	0.18	< 20	< 1	< 2	< 10	46	< 10	14	17
1448227 Orig	3.42	0.315	0.026	0.03	5	2	304	0.09	< 20	< 1	< 2	< 10	99	< 10	2	3
1448227 Dup	3.41	0.318	0.026	0.03	4	2	300	0.09	< 20	< 1	< 2	< 10	97	< 10	2	3
1448240 Orig	0.60	0.092	0.066	3.22	5	3	59	0.04	< 20	< 1	< 2	< 10	34	< 10	5	3
1448240 Dup	0.59	0.093	0.065	3.09	4	3	56	0.04	< 20	< 1	< 2	< 10	33	< 10	5	3
1448242 Orig																
1448242 Dup																
1448251 Orig	1.24	0.217	0.073	0.12	< 2	8	157	0.19	< 20	< 1	< 2	< 10	223	< 10	6	3
1448251 Split PREP DUP	1.28	0.231	0.071	0.12	2	9	162	0.19	< 20	2	< 2	< 10	226	< 10	6	3
1448253 Orig	1.21	0.128	0.074	0.10	2	7	74	0.26	< 20	< 1	< 2	< 10	172	< 10	8	5
1448253 Dup	1.26	0.133	0.078	0.10	< 2	7	75	0.27	< 20	< 1	< 2	< 10	178	< 10	8	5
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																

Quality Analysis ... *Innovative Technologies*

Date Submitted:	18-Jul-16
Invoice No.:	A16-06905 (i)
Invoice Date:	04-Aug-16
Your Reference:	THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

56 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A16-06905 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
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E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
1448201	8
1448202	< 5
1448203	6
1448204	< 5
1448205	5
1448206	9
1448207	6
1448208	13
1448209	6
1448210	22
1448211	7
1448212	< 5
1448213	5
1448214	< 5
1448215	7
1448216	5
1448217	6
1448218	< 5
1448219	5
1448220	589
1448221	< 5
1448222	6
1448223	5
1448224	5
1448225	< 5
1448226	< 5
1448227	< 5
1448228	< 5
1448229	9
1448230	< 5
1448231	< 5
1448232	< 5
1448233	5
1448234	< 5
1448235	< 5
1448236	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
SF67 Meas	811
SF67 Cert	835
SE68 Meas	581
SE68 Cert	599
1448215 Orig	6
1448215 Dup	7
1448225 Orig	< 5
1448225 Dup	< 5
1448235 Orig	< 5
1448235 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5

Quality Analysis ... *Innovative Technologies*

Date Submitted: 18-Jul-16
Invoice No.: A16-06907
Invoice Date: 27-Jul-16
Your Reference: THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

20 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)
Code Sieve Report-Kamloops-Internal Sieve Report

REPORT **A16-06907**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448256	< 5	< 0.2	< 0.5	220	430	< 1	17	< 2	41	2.29	5	< 10	46	0.5	< 2	3.34	18	27	4.25	10	< 1	0.18	< 10
1448257	< 5	< 0.2	< 0.5	301	466	< 1	18	3	41	2.07	< 2	< 10	104	< 0.5	< 2	3.26	19	24	4.28	< 10	< 1	0.23	11
1448258	< 5	< 0.2	< 0.5	213	278	< 1	9	< 2	28	1.45	< 2	< 10	84	< 0.5	< 2	2.79	11	26	3.03	< 10	< 1	0.31	< 10
1448259	< 5	< 0.2	< 0.5	104	348	2	10	< 2	35	1.60	< 2	< 10	148	< 0.5	< 2	2.16	14	27	3.58	< 10	< 1	0.26	10
1448260	< 5	< 0.2	< 0.5	3	314	3	2	8	21	0.51	< 2	< 10	45	0.7	< 2	0.41	1	26	1.32	< 10	< 1	0.28	66
1448261	< 5	< 0.2	< 0.5	1310	448	< 1	13	10	41	2.19	< 2	< 10	251	< 0.5	< 2	4.69	13	17	3.43	< 10	< 1	0.31	< 10
1448262	< 5	< 0.2	< 0.5	370	498	< 1	12	4	35	2.07	< 2	< 10	322	< 0.5	< 2	3.18	17	23	4.20	< 10	< 1	0.18	11
1448263	< 5	< 0.2	< 0.5	239	462	< 1	19	< 2	29	2.51	< 2	< 10	359	0.5	< 2	4.01	18	25	4.21	< 10	< 1	0.38	< 10
1448264	20	< 0.2	< 0.5	285	356	< 1	23	< 2	29	2.00	< 2	< 10	211	< 0.5	< 2	4.12	14	26	3.65	< 10	< 1	0.23	< 10
1448265	< 5	< 0.2	< 0.5	167	258	< 1	22	< 2	34	2.06	< 2	< 10	88	< 0.5	< 2	3.18	14	26	3.88	< 10	< 1	0.23	< 10
1448266	< 5	< 0.2	< 0.5	1080	258	< 1	15	< 2	16	1.89	5	< 10	68	< 0.5	< 2	3.70	10	32	2.68	< 10	< 1	0.18	< 10
1448267	< 5	< 0.2	< 0.5	1900	271	< 1	35	4	21	1.98	3	< 10	46	< 0.5	< 2	2.90	14	49	3.83	< 10	< 1	0.14	< 10
1448268	< 5	< 0.2	< 0.5	839	386	< 1	15	5	38	2.15	< 2	< 10	204	< 0.5	< 2	3.29	16	25	3.82	< 10	< 1	0.30	12
1448269	< 5	< 0.2	< 0.5	3230	577	2	13	17	33	1.41	4	31	28	< 0.5	< 2	9.03	6	25	2.98	< 10	< 1	0.20	< 10
1448270	< 5	2.4	3.5	2520	934	20	23	65	618	2.24	50	< 10	21	< 0.5	< 2	1.03	15	34	5.09	< 10	< 1	0.42	< 10
1448271	< 5	< 0.2	< 0.5	2850	483	3	14	2	24	1.26	6	82	15	< 0.5	< 2	8.14	7	19	2.88	< 10	< 1	0.03	16
1448272	< 5	< 0.2	< 0.5	873	409	< 1	32	< 2	32	2.92	< 2	< 10	50	< 0.5	< 2	4.91	25	52	6.49	10	2	0.21	44
1448273	< 5	< 0.2	< 0.5	1100	452	< 1	34	4	39	2.48	< 2	< 10	32	< 0.5	< 2	5.75	23	58	5.11	10	3	0.17	18
1448274	383	< 0.2	< 0.5	240	379	< 1	28	< 2	54	2.84	3	< 10	46	< 0.5	< 2	4.91	26	25	5.22	10	3	0.23	23
1448275	< 5	< 0.2	< 0.5	89	323	< 1	27	< 2	31	2.47	< 2	< 10	56	< 0.5	< 2	4.60	24	40	4.61	10	< 1	0.23	11

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448256	1.42	0.073	0.084	0.02	3	10	92	0.17	< 20	7	< 2	< 10	145	< 10	13	3
1448257	1.45	0.080	0.094	0.02	< 2	12	91	0.11	< 20	< 1	< 2	< 10	147	< 10	13	2
1448258	0.87	0.066	0.062	0.02	3	4	50	0.03	< 20	1	< 2	< 10	65	< 10	10	6
1448259	1.00	0.097	0.070	< 0.01	2	6	89	0.11	< 20	< 1	< 2	< 10	97	< 10	12	6
1448260	0.10	0.148	0.013	< 0.01	< 2	1	16	0.02	30	< 1	< 2	< 10	11	< 10	15	13
1448261	1.26	0.091	0.088	0.08	2	9	167	0.03	< 20	< 1	< 2	< 10	87	< 10	17	2
1448262	1.37	0.119	0.105	0.03	3	11	212	0.14	< 20	< 1	< 2	< 10	146	< 10	16	3
1448263	1.61	0.113	0.087	0.02	4	11	235	0.12	< 20	< 1	< 2	< 10	141	< 10	14	2
1448264	1.56	0.136	0.033	0.02	< 2	7	199	0.17	< 20	< 1	< 2	< 10	142	< 10	11	3
1448265	1.44	0.115	0.021	< 0.01	3	6	88	0.18	< 20	1	< 2	< 10	131	< 10	12	7
1448266	1.21	0.122	0.040	0.02	3	7	183	0.17	< 20	3	< 2	< 10	62	< 10	16	13
1448267	1.68	0.123	0.023	0.02	3	10	112	0.12	< 20	< 1	< 2	< 10	65	< 10	17	11
1448268	1.51	0.098	0.092	< 0.01	< 2	11	151	0.14	< 20	< 1	< 2	< 10	114	< 10	24	7
1448269	0.90	0.033	0.015	0.03	3	9	53	< 0.01	< 20	< 1	< 2	< 10	42	< 10	25	4
1448270	0.62	0.094	0.068	3.27	5	3	59	0.04	< 20	< 1	< 2	< 10	34	< 10	5	3
1448271	1.18	0.031	0.012	0.04	2	9	44	0.02	< 20	< 1	< 2	< 10	34	< 10	18	12
1448272	2.46	0.081	0.022	0.02	4	19	55	0.06	< 20	< 1	< 2	< 10	109	< 10	15	6
1448273	2.41	0.062	0.050	0.03	2	20	46	0.08	< 20	< 1	< 2	< 10	86	< 10	18	8
1448274	3.33	0.075	0.021	< 0.01	4	14	56	0.13	< 20	< 1	< 2	< 10	67	< 10	12	16
1448275	2.76	0.082	0.013	< 0.01	< 2	13	53	0.11	< 20	< 1	< 2	< 10	68	< 10	11	15

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.8	2.0	1170	755	15	38	583	649	0.35	387	< 10	192	0.8	1490	0.81	5	9	22.9	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.4	< 0.5	6340	132	333	39	39	67	2.68	99	< 10	37	1.4	12	0.95	14	60	3.02	10	< 1	1.61	44
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.2	< 0.5	69	1010	1	25	87	120	7.21	233	< 10	928	0.9	< 2	0.16	15	91	5.44	20	< 1	1.07	11
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SAR-M (U.S.G.S.) Meas		3.1	4.9	323	4160	13	41	952	945	1.12	38		217	1.0	< 2	0.34	11	102	2.84	< 10		0.26	52
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
SF67 Meas	831																						
SF67 Cert	835																						
SF67 Meas	841																						
SF67 Cert	835																						
SF67 Meas	854																						
SF67 Cert	835																						
SE68 Meas	622																						
SE68 Cert	599																						
SE68 Meas	605																						
SE68 Cert	599																						
OREAS 922 (AQUA REGIA) Meas		0.9	< 0.5	2390	753	< 1	37	61	259	2.97	4		100	0.7	6	0.46	20	53	5.29	< 10		0.44	41
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.5	< 0.5	4410	819	< 1	34	77	322	2.89	5		77	0.6	15	0.44	23	47	5.85	< 10		0.36	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
1448260 Orig	< 5																						
1448260 Dup	10																						
1448265 Orig	< 5																						
1448265 Dup	< 5																						
1448268 Orig		< 0.2	< 0.5	830	389	< 1	16	5	40	2.16	2	< 10	204	< 0.5	< 2	3.32	16	25	3.84	< 10	< 1	0.30	12
1448268 Dup		< 0.2	< 0.5	848	384	< 1	14	5	36	2.13	< 2	< 10	203	< 0.5	< 2	3.27	16	24	3.80	< 10	< 1	0.30	12
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.050	0.042	0.20	87	1	163	< 0.01	< 20	13	< 2	31	82	136	24	16
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.54	0.133	0.123	1.69	4	7	69	0.14	< 20	1	2	< 10	83	11	11	11
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.39	0.079	0.034	0.01	5	22	29		< 20	< 1	< 2	< 10	184	< 10	6	9
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.34	0.038	0.066		6	4	31	0.05	< 20	< 1	< 2	< 10	36	< 10	21	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SE68 Meas																
SE68 Cert																
SE68 Meas																
SE68 Cert																
OREAS 922 (AQUA REGIA) Meas	1.40	0.032	0.065	0.38	3	4	17		< 20		< 2	< 10	38	< 10	21	34
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.45		0.060	0.66	4	4	15		< 20		< 2	< 10	36	< 10	18	38
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
1448260 Orig																
1448260 Dup																
1448265 Orig																
1448265 Dup																
1448268 Orig	1.52	0.099	0.092	< 0.01	3	11	152	0.14	< 20	1	< 2	< 10	114	< 10	24	7
1448268 Dup	1.50	0.098	0.093	< 0.01	< 2	11	150	0.14	< 20	< 1	< 2	< 10	113	< 10	24	8
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																

Quality Analysis ... *Innovative Technologies*

Date Submitted:	20-Jul-16
Invoice No.:	A16-07054
Invoice Date:	02-Aug-16
Your Reference:	THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

51 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

Code Sieve Report-Kamloops-Internal Sieve Report

REPORT **A16-07054**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448276	< 5	< 0.2	< 0.5	427	417	4	23	< 2	34	2.61	5	< 10	40	< 0.5	< 2	4.37	22	26	5.07	< 10	2	0.14	12
1448277	< 5	1.0	< 0.5	3670	456	50	22	< 2	36	2.77	< 2	< 10	27	< 0.5	2	4.62	24	25	7.41	10	1	0.11	13
1448278	< 5	< 0.2	< 0.5	242	367	< 1	25	< 2	23	2.37	< 2	< 10	27	< 0.5	< 2	3.45	20	39	4.84	< 10	< 1	0.13	< 10
1448279	< 5	< 0.2	< 0.5	53	345	< 1	12	< 2	26	2.24	6	10	61	< 0.5	< 2	4.00	9	17	2.38	< 10	< 1	0.21	< 10
1448280	< 5	5.3	5.8	5350	862	145	17	103	909	1.68	28	< 10	20	< 0.5	< 2	0.68	15	20	6.05	< 10	3	0.38	< 10
1448281	< 5	< 0.2	< 0.5	138	397	1	28	< 2	26	2.43	3	< 10	50	< 0.5	< 2	4.21	16	40	4.09	< 10	< 1	0.20	< 10
1448282	8	< 0.2	< 0.5	80	468	< 1	26	< 2	25	2.17	< 2	< 10	54	< 0.5	< 2	4.33	18	47	4.69	< 10	< 1	0.24	< 10
1448283	< 5	< 0.2	< 0.5	3820	394	6	8	8	12	0.70	< 2	32	30	< 0.5	< 2	7.61	5	25	2.87	< 10	< 1	0.13	48
1448284	37	< 0.2	< 0.5	779	430	< 1	28	< 2	22	1.84	< 2	< 10	33	< 0.5	< 2	6.51	15	31	3.49	< 10	< 1	0.21	127
1448285	< 5	< 0.2	< 0.5	1800	318	1	12	3	19	1.77	< 2	< 10	20	< 0.5	< 2	4.46	16	12	4.77	< 10	< 1	0.13	89
1448286	7	< 0.2	< 0.5	707	420	3	11	< 2	29	2.32	< 2	< 10	30	< 0.5	< 2	4.86	14	4	5.20	< 10	< 1	0.07	< 10
1448287	< 5	< 0.2	< 0.5	864	285	1	14	< 2	18	2.24	< 2	< 10	18	< 0.5	< 2	4.79	13	7	4.99	10	< 1	0.07	68
1448288	< 5	< 0.2	< 0.5	1490	270	< 1	14	< 2	19	1.76	< 2	< 10	27	< 0.5	< 2	3.33	14	6	3.88	10	< 1	0.13	76
1448289	< 5	< 0.2	< 0.5	1060	406	< 1	12	< 2	30	1.98	< 2	< 10	22	< 0.5	< 2	5.91	13	7	4.52	10	< 1	0.19	48
1448290	< 5	< 0.2	< 0.5	4	316	2	1	7	21	0.47	< 2	< 10	33	0.7	< 2	0.41	< 1	16	1.02	< 10	< 1	0.25	64
1448291	6	< 0.2	< 0.5	400	521	< 1	17	2	54	2.29	< 2	30	35	< 0.5	< 2	6.64	17	7	4.28	10	< 1	0.25	124
1448292	< 5	< 0.2	< 0.5	392	330	< 1	18	< 2	49	2.76	< 2	< 10	89	< 0.5	< 2	3.44	18	13	4.28	< 10	< 1	0.54	22
1448293	< 5	< 0.2	< 0.5	217	433	1	22	< 2	41	2.65	< 2	< 10	40	< 0.5	< 2	3.95	23	16	5.98	< 10	2	0.42	11
1448294	< 5	< 0.2	< 0.5	139	461	3	15	< 2	45	2.78	< 2	< 10	39	< 0.5	< 2	3.47	21	8	7.53	< 10	2	0.36	< 10
1448295	< 5	< 0.2	< 0.5	650	512	2	24	< 2	48	2.92	< 2	< 10	53	< 0.5	< 2	4.52	19	18	4.29	< 10	< 1	0.33	< 10
1448296	< 5	< 0.2	< 0.5	95	494	2	7	< 2	23	1.20	< 2	< 10	33	< 0.5	< 2	3.45	7	9	1.97	< 10	< 1	0.26	18
1448297	< 5	< 0.2	< 0.5	84	513	2	15	2	44	2.00	< 2	< 10	101	< 0.5	< 2	2.59	17	16	4.09	< 10	< 1	0.20	12
1448298	< 5	< 0.2	< 0.5	111	508	2	16	< 2	49	2.02	< 2	< 10	89	< 0.5	< 2	2.19	16	15	4.11	< 10	< 1	0.22	12
1448299	< 5	< 0.2	< 0.5	48	223	1	4	< 2	14	0.72	< 2	< 10	29	< 0.5	< 2	1.93	4	14	1.37	< 10	< 1	0.23	12
1448300	< 5	2.1	1.0	3420	313	255	213	14	156	2.27	22	< 10	33	< 0.5	< 2	1.24	34	178	3.70	< 10	< 1	1.10	< 10
1448301	< 5	< 0.2	< 0.5	72	212	2	3	3	20	0.75	< 2	< 10	39	< 0.5	< 2	0.34	5	22	1.83	< 10	< 1	0.20	19
1448302	22	< 0.2	< 0.5	51	251	2	3	< 2	19	0.75	< 2	< 10	37	< 0.5	< 2	0.65	5	20	1.83	< 10	< 1	0.17	20
1448303	< 5	< 0.2	< 0.5	98	443	1	18	3	47	2.10	< 2	< 10	88	< 0.5	< 2	1.98	17	20	4.11	< 10	< 1	0.26	12
1448304	5	< 0.2	< 0.5	72	383	< 1	13	3	33	2.08	2	< 10	57	0.6	< 2	2.01	13	14	3.26	< 10	< 1	0.23	14
1448305	6	< 0.2	< 0.5	104	430	< 1	15	< 2	35	1.94	3	< 10	45	0.6	< 2	2.15	15	14	3.59	< 10	< 1	0.18	14
1448306	387	< 0.2	< 0.5	93	424	2	14	< 2	41	2.04	2	11	62	0.6	< 2	2.10	14	13	3.63	< 10	< 1	0.23	15
1448307	13	< 0.2	< 0.5	96	393	2	14	3	42	1.92	6	< 10	68	0.6	< 2	1.86	13	13	3.37	< 10	< 1	0.28	15
1448308	30	< 0.2	< 0.5	92	450	1	13	3	40	1.97	2	< 10	45	0.5	< 2	2.46	14	14	3.58	< 10	< 1	0.20	12
1448309	57	< 0.2	< 0.5	91	396	2	11	< 2	34	1.70	< 2	< 10	37	0.5	< 2	2.19	13	11	3.24	< 10	< 1	0.19	15
1448310	379	2.3	3.3	2500	1050	20	21	66	646	2.39	51	< 10	26	< 0.5	< 2	1.07	15	27	5.11	< 10	2	0.47	< 10
1448311	30	< 0.2	< 0.5	82	565	1	12	< 2	38	1.57	< 2	< 10	34	0.5	< 2	2.68	12	10	3.01	< 10	< 1	0.17	17
1448312	< 5	< 0.2	< 0.5	127	468	2	10	2	38	1.47	2	< 10	36	< 0.5	< 2	2.50	12	10	3.10	< 10	< 1	0.18	13
1448313	6	< 0.2	< 0.5	116	386	3	10	8	39	1.69	2	< 10	34	0.6	< 2	1.93	12	10	3.00	< 10	< 1	0.16	17
1448314	9	< 0.2	< 0.5	132	304	3	5	3	31	1.31	< 2	< 10	30	0.5	< 2	1.21	9	10	2.58	< 10	< 1	0.15	19
1448315	56	< 0.2	< 0.5	67	450	3	12	3	38	1.88	< 2	< 10	41	0.6	< 2	2.62	13	11	3.47	< 10	< 1	0.22	13
1448316	125	< 0.2	< 0.5	85	456	2	12	6	35	1.84	2	< 10	34	0.5	< 2	2.99	13	12	3.25	< 10	< 1	0.17	10
1448317	33	< 0.2	< 0.5	122	490	2	14	< 2	44	2.35	< 2	< 10	53	0.5	< 2	2.62	16	10	3.90	< 10	< 1	0.20	12
1448318	9	< 0.2	< 0.5	1050	469	1	14	5	48	1.82	< 2	< 10	71	< 0.5	< 2	1.82	16	13	4.16	< 10	< 1	0.29	12
1448319	6	< 0.2	< 0.5	148	430	< 1	16	< 2	34	1.77	< 2	< 10	33	< 0.5	< 2	2.89	14	14	3.49	< 10	< 1	0.33	11
1448320	117	< 0.2	< 0.5	1	302	3	< 1	7	21	0.35	< 2	< 10	27	0.5	< 2	0.39	< 1	5	0.86	< 10	< 1	0.18	63
1448321	18	< 0.2	< 0.5	135	401	1	19	< 2	48	1.70	2	< 10	63	< 0.5	< 2	1.67	17	17	4.03	< 10	< 1	0.22	< 10
1448322	15	< 0.2	< 0.5	128	415	2	15	< 2	50	1.83	2	< 10	88	< 0.5	< 2	2.06	16	12	3.97	< 10	< 1	0.29	< 10
1448323	16	< 0.2	< 0.5	117	390	2	18	< 2	45	1.70	< 2	< 10	55	< 0.5	< 2	2.13	15	16	3.55	< 10	< 1	0.23	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448324	< 5	< 0.2	< 0.5	102	289	2	9	< 2	27	1.22	< 2	< 10	30	< 0.5	< 2	1.45	9	11	2.62	< 10	< 1	0.15	17
1448325	< 5	< 0.2	< 0.5	150	460	< 1	17	< 2	48	1.66	< 2	< 10	58	< 0.5	< 2	2.11	15	15	3.65	< 10	< 1	0.23	11
1448326	< 5	< 0.2	< 0.5	95	331	2	9	< 2	32	1.43	< 2	< 10	31	< 0.5	< 2	1.87	11	12	2.90	< 10	< 1	0.12	13

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448276	2.93	0.066	0.024	0.03	4	10	90	0.18	< 20	< 1	< 2	< 10	68	< 10	12	16
1448277	3.16	0.061	0.038	0.10	3	11	76	0.14	< 20	3	< 2	< 10	104	< 10	13	14
1448278	2.43	0.085	0.021	< 0.01	5	9	116	0.21	< 20	3	< 2	< 10	82	< 10	10	16
1448279	1.63	0.101	0.040	< 0.01	4	6	153	0.19	< 20	4	< 2	< 10	53	< 10	7	18
1448280	0.44	0.056	0.052	4.23	4	2	41	0.04	< 20	2	< 2	< 10	31	< 10	4	2
1448281	2.11	0.127	0.025	< 0.01	3	9	179	0.21	< 20	4	< 2	< 10	80	< 10	13	15
1448282	2.05	0.155	0.028	< 0.01	2	15	96	0.21	< 20	4	< 2	< 10	113	< 10	15	12
1448283	0.47	0.053	0.019	0.36	3	11	50	0.07	< 20	< 1	< 2	< 10	68	< 10	23	8
1448284	1.55	0.076	0.064	0.12	3	15	73	0.06	< 20	< 1	< 2	< 10	78	< 10	31	9
1448285	1.76	0.058	0.093	0.07	4	12	64	0.13	< 20	< 1	< 2	< 10	82	< 10	23	8
1448286	2.01	0.054	0.019	0.04	4	3	223	0.16	< 20	1	< 2	< 10	52	< 10	9	15
1448287	1.58	0.048	0.020	0.04	3	9	180	0.15	< 20	< 1	< 2	< 10	91	< 10	19	13
1448288	1.66	0.100	0.108	0.05	3	15	37	0.20	< 20	< 1	< 2	< 10	116	< 10	31	10
1448289	1.60	0.055	0.103	0.03	3	14	46	0.09	< 20	5	< 2	< 10	89	< 10	24	5
1448290	0.10	0.133	0.012	0.01	< 2	1	15	0.02	30	3	< 2	< 10	11	< 10	15	9
1448291	1.95	0.044	0.019	0.01	4	7	62	< 0.01	< 20	< 1	< 2	< 10	61	< 10	22	6
1448292	1.67	0.080	0.090	< 0.01	3	10	43	< 0.01	< 20	< 1	2	< 10	96	< 10	16	2
1448293	1.81	0.065	0.099	< 0.01	3	15	47	0.03	< 20	5	< 2	< 10	157	< 10	18	3
1448294	1.92	0.076	0.092	< 0.01	5	20	49	0.05	< 20	< 1	< 2	< 10	247	< 10	19	3
1448295	1.66	0.068	0.066	0.07	4	11	86	< 0.01	< 20	2	< 2	< 10	103	< 10	15	2
1448296	0.61	0.067	0.036	< 0.01	< 2	3	42	< 0.01	< 20	< 1	< 2	< 10	43	< 10	26	2
1448297	1.27	0.097	0.079	< 0.01	< 2	9	152	0.24	< 20	< 1	< 2	< 10	151	< 10	15	3
1448298	1.28	0.123	0.078	< 0.01	2	9	137	0.24	< 20	2	< 2	< 10	154	< 10	15	3
1448299	0.47	0.054	0.025	< 0.01	< 2	1	24	< 0.01	< 20	1	< 2	< 10	26	< 10	19	3
1448300	2.37	0.091	0.093	2.25	7	8	67	0.16	< 20	3	< 2	< 10	91	< 10	7	2
1448301	0.35	0.086	0.025	< 0.01	< 2	2	20	0.02	< 20	< 1	< 2	< 10	38	< 10	24	5
1448302	0.37	0.078	0.027	< 0.01	< 2	3	25	0.02	20	< 1	< 2	< 10	40	< 10	30	5
1448303	1.26	0.131	0.088	< 0.01	< 2	9	137	0.30	< 20	< 1	< 2	< 10	164	< 10	12	3
1448304	0.97	0.165	0.060	< 0.01	< 2	7	140	0.19	< 20	2	< 2	< 10	108	< 10	15	3
1448305	1.11	0.125	0.078	< 0.01	3	8	148	0.24	< 20	7	< 2	< 10	127	< 10	16	4
1448306	1.04	0.157	0.071	< 0.01	5	7	104	0.26	< 20	2	< 2	< 10	135	< 10	12	4
1448307	0.87	0.152	0.063	< 0.01	< 2	7	110	0.19	< 20	1	< 2	< 10	123	< 10	12	4
1448308	0.97	0.128	0.078	< 0.01	3	7	118	0.23	< 20	< 1	< 2	< 10	135	< 10	12	3
1448309	0.87	0.103	0.065	< 0.01	3	6	78	0.22	< 20	3	< 2	< 10	120	< 10	15	4
1448310	0.62	0.098	0.067	3.29	4	3	61	0.04	< 20	1	< 2	< 10	35	< 10	5	2
1448311	0.82	0.098	0.060	< 0.01	< 2	7	68	0.15	< 20	< 1	< 2	< 10	108	< 10	18	3
1448312	0.80	0.098	0.066	< 0.01	< 2	6	53	0.20	< 20	1	< 2	< 10	120	< 10	15	3
1448313	0.84	0.109	0.056	< 0.01	< 2	7	55	0.20	< 20	5	< 2	< 10	102	< 10	22	5
1448314	0.65	0.085	0.044	< 0.01	< 2	7	41	0.09	< 20	2	< 2	< 10	74	< 10	31	5
1448315	0.99	0.129	0.062	< 0.01	< 2	7	67	0.24	< 20	< 1	< 2	< 10	121	< 10	16	4
1448316	1.00	0.114	0.068	< 0.01	< 2	6	66	0.25	< 20	< 1	< 2	< 10	123	< 10	10	3
1448317	1.16	0.139	0.076	< 0.01	3	9	121	0.16	< 20	4	< 2	< 10	135	< 10	12	3
1448318	1.10	0.126	0.079	0.06	3	9	94	0.20	< 20	< 1	< 2	< 10	156	< 10	12	3
1448319	0.99	0.075	0.080	< 0.01	< 2	7	70	0.11	< 20	1	< 2	< 10	108	< 10	12	2
1448320	0.10	0.077	0.013	0.01	< 2	< 1	14	0.02	30	< 1	< 2	< 10	11	< 10	14	7
1448321	1.12	0.114	0.083	< 0.01	3	7	98	0.28	< 20	5	< 2	< 10	163	< 10	9	3
1448322	1.05	0.127	0.081	< 0.01	3	7	106	0.26	< 20	5	< 2	< 10	162	< 10	9	3
1448323	0.96	0.111	0.076	< 0.01	< 2	5	66	0.25	< 20	3	< 2	< 10	141	< 10	9	2

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448324	0.66	0.080	0.046	< 0.01	< 2	6	36	0.13	< 20	2	< 2	< 10	80	< 10	24	5
1448325	1.05	0.108	0.074	< 0.01	2	7	80	0.19	< 20	1	< 2	< 10	141	< 10	12	3
1448326	0.76	0.078	0.063	< 0.01	< 2	5	53	0.18	< 20	< 1	< 2	< 10	103	< 10	17	4

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.0	2.4	1150	827	15	34	573	654	0.34	381	< 10	336	0.8	1460	0.80	6	6	22.4	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.3	< 0.5	6390	144	332	38	38	67	2.67	101	< 10	51	1.4	9	0.95	14	49	2.96	< 10	< 1	1.59	49
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SAR-M (U.S.G.S.) Meas		3.4	5.5	342	4810	14	42	969	1010	1.15	38		178	1.1	< 2	0.35	12	85	2.93	< 10		0.27	56
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
SF67 Meas	843																						
SF67 Cert	835																						
SF67 Meas	831																						
SF67 Cert	835																						
SF67 Meas	841																						
SF67 Cert	835																						
SF67 Meas	854																						
SF67 Cert	835																						
SE68 Meas	609																						
SE68 Cert	599																						
SE68 Meas	622																						
SE68 Cert	599																						
SE68 Meas	605																						
SE68 Cert	599																						
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2250	799	< 1	35	55	254	2.87	5		82	0.7	7	0.45	20	41	4.97	< 10		0.46	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.6	< 0.5	4160	870	< 1	31	69	315	2.75	2		65	0.6	12	0.43	22	36	5.52	< 10		0.37	34
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
1448276 Orig	< 5																						
1448276 Dup	6																						
1448288 Orig		< 0.2	< 0.5	1470	269	< 1	14	< 2	20	1.75	< 2	< 10	27	< 0.5	< 2	3.35	14	6	3.85	10	< 1	0.13	75
1448288 Dup		< 0.2	< 0.5	1500	270	< 1	14	3	19	1.77	< 2	< 10	27	< 0.5	< 2	3.32	13	6	3.90	10	< 1	0.13	77
1448301 Orig	< 5																						
1448301 Dup	< 5																						
1448302 Orig		< 0.2	< 0.5	51	252	2	3	< 2	19	0.76	2	< 10	38	< 0.5	< 2	0.66	5	21	1.85	< 10	< 1	0.17	21
1448302 Dup		< 0.2	< 0.5	51	249	2	4	2	19	0.74	< 2	< 10	36	< 0.5	< 2	0.65	6	19	1.81	< 10	< 1	0.17	20
1448311 Orig	26																						
1448311 Dup	34																						
1448315 Orig		< 0.2	< 0.5	68	453	3	13	3	38	1.90	3	< 10	41	0.6	< 2	2.64	13	11	3.50	< 10	< 1	0.23	13
1448315 Dup		< 0.2	< 0.5	66	448	2	11	3	37	1.86	< 2	< 10	41	0.6	< 2	2.60	13	10	3.45	< 10	< 1	0.22	13
1448325 Orig	< 5	< 0.2	< 0.5	150	460	< 1	17	< 2	48	1.66	< 2	< 10	58	< 0.5	< 2	2.11	15	15	3.65	< 10	< 1	0.23	11
1448325 Split PREP DUP	< 5	< 0.2	< 0.5	150	453	< 1	16	< 2	47	1.67	< 2	< 10	58	< 0.5	< 2	2.06	15	14	3.63	< 10	< 1	0.24	11
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.054	0.042	0.20	83	1	173	< 0.01	< 20	15	< 2	30	80	140	24	12
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.55	0.134	0.121	1.73	4	7	71	0.14	< 20	1	< 2	< 10	82	14	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
SAR-M (U.S.G.S.) Meas	0.36	0.037	0.067		5	4	31	0.06	< 20	< 1	< 2	< 10	38	< 10	22	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SF67 Meas																
SF67 Cert																
SE68 Meas																
SE68 Cert																
SE68 Meas																
SE68 Cert																
SE68 Meas																
SE68 Cert																
OREAS 922 (AQUA REGIA) Meas	1.33	0.031	0.062	0.36	4	4	16		< 20		< 2	< 10	38	< 10	21	21
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.36		0.057	0.62	4	4	13		< 20		< 2	< 10	35	< 10	18	33
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
1448276 Orig																
1448276 Dup																
1448288 Orig	1.65	0.100	0.107	0.05	3	15	36	0.21	< 20	< 1	< 2	< 10	116	< 10	31	10
1448288 Dup	1.68	0.100	0.109	0.05	3	15	37	0.20	< 20	4	< 2	< 10	116	< 10	31	10
1448301 Orig																
1448301 Dup																
1448302 Orig	0.38	0.080	0.027	< 0.01	< 2	3	25	0.02	20	< 1	< 2	< 10	41	< 10	30	5
1448302 Dup	0.37	0.076	0.027	< 0.01	< 2	3	25	0.02	20	4	< 2	< 10	40	< 10	30	5
1448311 Orig																
1448311 Dup																
1448315 Orig	1.00	0.130	0.062	< 0.01	2	7	68	0.24	< 20	< 1	< 2	< 10	121	< 10	16	4
1448315 Dup	0.98	0.129	0.061	< 0.01	< 2	7	66	0.24	< 20	< 1	< 2	< 10	120	< 10	16	4
1448325 Orig	1.05	0.108	0.074	< 0.01	2	7	80	0.19	< 20	1	< 2	< 10	141	< 10	12	3
1448325 Split PREP DUP	1.03	0.113	0.074	< 0.01	3	7	77	0.19	< 20	3	< 2	< 10	139	< 10	12	3
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																

Quality Analysis ... *Innovative Technologies*

Date Submitted: 25-Jul-16
Invoice No.: A16-07233 (i)
Invoice Date: 16-Aug-16
Your Reference: THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

75 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA
Code 1C-OES-Kamloops Fire Assay ICPOES
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A16-07233 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613

Analyte Symbol	Au	Au	Pd	Pt	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe
Unit Symbol	ppb	ppb	ppb	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	2	5	5	0.001	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448004	18					0.8	< 0.5	5570	413	4	4	< 2	24	1.61	35	< 10	41	< 0.5	< 2	1.94	36	4	5.07
1448005	107				2.08	2.3	< 0.5	> 10000	252	9	66	4	24	0.70	382	< 10	< 10	0.6	< 2	3.76	450	4	11.8
1448006	267				2.51	4.1	< 0.5	> 10000	212	2	69	3	30	0.50	1060	< 10	16	0.6	6	4.38	974	4	14.6
1448007	92				1.75	2.8	< 0.5	> 10000	162	3	34	< 2	27	0.47	94	< 10	16	0.7	< 2	1.46	188	4	23.4
1448008	203				1.14	2.6	< 0.5	> 10000	320	2	52	< 2	22	0.61	189	< 10	29	0.7	< 2	3.24	268	7	14.3
1448009	145				1.39	2.6	< 0.5	> 10000	278	< 1	76	< 2	42	0.54	231	< 10	14	0.6	< 2	2.97	426	5	14.3
1448010	25					2.1	1.1	3390	298	243	202	19	162	2.15	24	< 10	22	< 0.5	< 2	1.19	34	180	3.73
1448011	32					0.5	< 0.5	3510	607	2	162	< 2	19	0.95	88	< 10	< 10	< 0.5	< 2	3.11	1040	6	16.1
1448012	11					< 0.2	< 0.5	1420	1330	< 1	54	< 2	19	0.74	34	< 10	17	0.9	< 2	6.75	255	3	13.2
1448013	46					0.5	< 0.5	5230	821	8	31	< 2	18	0.78	34	< 10	13	0.6	< 2	6.88	189	4	9.22
1448014	6	4	< 5	< 5		< 0.2	< 0.5	420	561	< 1	15	< 2	7	0.64	9	< 10	41	< 0.5	< 2	10.1	84	3	4.97
1448015	13	4	11	15		0.2	< 0.5	1820	509	9	164	6	9	0.29	78	15	< 10	< 0.5	< 2	5.58	616	3	17.3
1448016	7	5	10	< 5		< 0.2	< 0.5	853	596	7	91	< 2	8	0.31	39	< 10	< 10	< 0.5	< 2	6.02	334	3	11.4
1448017	10	6	12	< 5		< 0.2	< 0.5	1020	745	< 1	108	4	8	0.38	46	< 10	< 10	< 0.5	< 2	5.56	354	2	12.5
1448018	7	4	< 5	< 5		< 0.2	< 0.5	891	643	< 1	94	< 2	9	0.75	28	< 10	16	< 0.5	< 2	5.41	330	3	12.5
1448019	8	20	< 5	17		< 0.2	< 0.5	1320	602	< 1	155	3	8	0.41	43	18	< 10	< 0.5	< 2	3.50	439	2	14.1
1448020	681					3.8	5.3	4070	729	113	13	97	770	1.42	23	< 10	< 10	< 0.5	< 2	0.57	14	17	4.65
1448021	< 5					< 0.2	< 0.5	282	507	7	15	< 2	8	0.79	14	< 10	24	< 0.5	< 2	6.39	102	2	5.84
1448022	5					< 0.2	< 0.5	710	418	7	12	< 2	6	0.58	8	< 10	< 10	< 0.5	< 2	7.41	74	2	6.92
1448023	75					1.0	< 0.5	7160	164	7	26	3	13	0.79	160	< 10	12	0.5	< 2	2.93	399	5	9.67
1448024	24					0.3	< 0.5	3760	129	7	9	3	7	0.92	39	< 10	< 10	< 0.5	< 2	3.81	119	4	6.54
1448025	42					0.3	< 0.5	3630	155	7	3	< 2	8	1.41	13	< 10	19	< 0.5	< 2	4.01	32	3	4.10
1448026	101					0.7	< 0.5	8820	123	7	5	< 2	9	0.86	15	< 10	< 10	< 0.5	< 2	3.43	78	4	4.89
1448027	61				1.60	1.0	< 0.5	> 10000	155	6	12	< 2	11	0.70	15	< 10	< 10	< 0.5	< 2	3.95	92	3	5.77
1448028	92				1.39	0.9	< 0.5	> 10000	169	7	11	4	13	1.04	15	< 10	10	< 0.5	< 2	3.91	148	4	7.21
1448029	43				1.90	1.4	< 0.5	> 10000	192	< 1	7	< 2	13	0.74	16	< 10	< 10	< 0.5	< 2	4.94	65	4	6.52
1448030	< 5					< 0.2	< 0.5	44	297	3	2	8	21	0.44	< 2	< 10	37	0.7	< 2	0.39	2	16	1.10
1448031	19					0.3	< 0.5	4630	168	< 1	5	< 2	13	1.66	5	< 10	80	< 0.5	< 2	3.66	46	3	4.29
1448032	272				3.75	2.6	< 0.5	> 10000	132	< 1	9	2	15	0.68	21	< 10	< 10	< 0.5	4	3.77	181	3	8.46
1448033	151				3.03	2.1	< 0.5	> 10000	116	< 1	10	< 2	16	0.67	11	< 10	< 10	< 0.5	< 2	2.27	131	5	9.92
1448034	84				2.08	1.8	< 0.5	> 10000	215	< 1	9	< 2	15	0.88	16	< 10	< 10	< 0.5	< 2	3.36	87	5	10.8
1448035	11				1.15	0.8	< 0.5	> 10000	225	2	9	< 2	16	0.87	33	< 10	21	< 0.5	< 2	3.63	43	5	10.1
1448036	185				4.08	2.5	< 0.5	> 10000	114	< 1	50	10	22	0.56	25	< 10	< 10	< 0.5	< 2	1.83	296	3	14.2
1448037	123				2.22	1.7	< 0.5	> 10000	132	< 1	9	2	21	0.71	11	< 10	10	0.6	< 2	1.98	116	3	13.7
1448038	67				1.98	1.2	< 0.5	> 10000	167	10	6	4	19	1.08	21	< 10	11	< 0.5	< 2	2.38	49	4	9.28
1448039	88				2.28	1.7	< 0.5	> 10000	261	< 1	11	4	23	1.34	4	< 10	< 10	0.5	< 2	3.12	52	3	15.1
1448040	410					2.2	3.2	2300	924	17	20	66	619	2.02	40	< 10	15	< 0.5	< 2	0.96	13	26	4.68
1448041	74				3.80	2.8	< 0.5	> 10000	272	< 1	7	2	26	1.89	7	< 10	13	< 0.5	< 2	4.10	39	4	14.1
1448042	36					0.5	< 0.5	7360	246	5	10	< 2	15	2.09	6	< 10	< 10	0.7	< 2	4.37	32	3	9.83
1448043	13					0.3	< 0.5	5250	157	10	8	4	11	1.11	3	< 10	< 10	0.8	< 2	2.24	28	4	12.1
1448044	44					0.4	< 0.5	4250	106	1	10	< 2	7	0.91	7	< 10	< 10	0.8	< 2	2.12	77	2	12.0
1448045	44				1.61	0.8	< 0.5	> 10000	127	< 1	8	< 2	9	1.17	7	< 10	< 10	0.6	< 2	2.46	25	5	11.7
1448046	79					0.7	< 0.5	9250	215	< 1	27	< 2	16	1.43	6	< 10	24	< 0.5	< 2	2.08	184	5	8.53
1448047	5					< 0.2	< 0.5	2310	280	2	5	< 2	23	1.88	< 2	< 10	32	< 0.5	< 2	3.22	13	4	3.27
1448048	13					0.3	< 0.5	4970	235	< 1	7	< 2	14	2.36	< 2	< 10	11	< 0.5	< 2	4.17	13	3	6.35
1448049	< 5					< 0.2	< 0.5	163	242	7	5	< 2	11	1.88	6	< 10	26	< 0.5	< 2	3.25	9	8	2.23
1448050	659					4.8	5.4	4910	784	130	15	113	882	1.53	29	< 10	< 10	< 0.5	< 2	0.62	14	19	5.65
1448351	48					0.3	< 0.5	4280	225	1	8	< 2	13	2.08	< 2	< 10	11	< 0.5	< 2	3.64	15	5	5.33

Analyte Symbol	Au	Au	Pd	Pt	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe
Unit Symbol	ppb	ppb	ppb	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	2	5	5	0.001	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448352	10					0.3	< 0.5	7830	272	< 1	6	< 2	18	2.28	2	< 10	12	< 0.5	< 2	3.77	15	5	5.99
1448353	23					< 0.2	< 0.5	4350	337	< 1	6	< 2	21	2.25	< 2	< 10	13	< 0.5	< 2	3.74	14	6	5.35
1448354	9					< 0.2	< 0.5	2150	326	2	3	5	17	2.04	< 2	< 10	22	< 0.5	< 2	3.22	14	7	3.84
1448355	6					< 0.2	< 0.5	2970	328	< 1	7	5	18	2.35	< 2	< 10	22	< 0.5	< 2	3.16	14	5	4.40
1448356	< 5					< 0.2	< 0.5	1150	370	< 1	5	< 2	21	2.48	< 2	< 10	19	< 0.5	< 2	3.88	11	4	4.10
1448357	< 5					< 0.2	< 0.5	433	421	< 1	3	< 2	27	2.56	< 2	< 10	32	< 0.5	< 2	3.56	14	3	3.43
1448358	13					0.3	< 0.5	6400	232	< 1	9	< 2	16	2.36	< 2	< 10	11	< 0.5	< 2	3.38	19	3	7.42
1448359	329				3.85	1.8	< 0.5	> 10000	315	1	55	< 2	16	0.64	43	< 10	11	0.5	< 2	2.46	508	4	16.3
1448360	< 5					< 0.2	< 0.5	14	295	< 1	2	8	22	0.46	< 2	< 10	34	0.6	< 2	0.37	1	7	1.10
1448361	< 5					< 0.2	0.5	231	470	< 1	126	7	73	3.85	15	< 10	71	0.6	< 2	2.73	33	90	6.76
1448362	< 5					< 0.2	< 0.5	95	560	< 1	110	< 2	65	3.73	12	< 10	79	< 0.5	< 2	3.06	33	84	6.85
1448363	< 5					< 0.2	< 0.5	43	868	< 1	12	< 2	55	3.06	< 2	10	79	< 0.5	< 2	2.79	15	22	4.81
1448364	< 5					< 0.2	< 0.5	41	918	< 1	9	2	54	3.02	3	11	85	< 0.5	< 2	2.90	13	23	4.49
1448365	< 5					< 0.2	1.5	199	802	< 1	56	52	79	3.55	5	18	45	0.8	< 2	2.92	26	47	5.78
1448366	< 5					< 0.2	< 0.5	137	418	7	11	3	41	2.39	3	< 10	34	0.5	< 2	3.22	11	12	2.29
1448367	< 5					< 0.2	< 0.5	101	626	< 1	12	3	55	2.44	3	< 10	53	0.5	< 2	3.63	16	12	3.27
1448368	< 5					< 0.2	< 0.5	129	546	1	19	4	58	2.62	8	10	78	0.6	< 2	2.66	18	21	3.95
1448369	< 5					< 0.2	< 0.5	88	533	< 1	14	2	55	3.11	< 2	< 10	48	0.6	< 2	3.07	15	16	3.38
1448370	400					2.3	3.2	2330	954	18	20	69	631	2.11	46	< 10	14	< 0.5	< 2	0.97	13	26	4.77
1448371	< 5					< 0.2	0.5	107	659	< 1	19	< 2	66	2.97	< 2	< 10	79	0.6	< 2	2.95	21	20	4.43
1448372	< 5					< 0.2	0.7	78	714	< 1	19	3	64	2.15	2	< 10	94	< 0.5	< 2	2.78	21	21	4.21
1448373	< 5					< 0.2	< 0.5	141	516	< 1	15	3	56	2.14	3	< 10	58	0.6	< 2	2.85	17	15	3.67
1448374	< 5					< 0.2	< 0.5	140	549	< 1	18	< 2	55	2.38	3	< 10	58	0.5	< 2	2.87	17	17	4.16
1448375	< 5					< 0.2	< 0.5	129	649	< 1	16	< 2	48	2.18	3	< 10	43	< 0.5	< 2	3.19	16	17	3.95
1448376	< 5					< 0.2	< 0.5	159	633	< 1	15	3	55	2.32	3	< 10	46	0.5	< 2	3.16	17	15	4.27
1448377	< 5					< 0.2	< 0.5	119	397	< 1	13	< 2	44	2.13	2	11	55	0.5	< 2	2.38	15	16	3.73
1448378	39					1.9	1.3	3130	283	229	194	17	156	2.05	19	< 10	15	< 0.5	< 2	1.14	31	170	3.46

Analyte Symbol	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448004	< 10	< 1	0.15	< 10	1.03	0.125	0.088	0.61	4	14	57	0.32	< 20	4	< 2	< 10	101	< 10	16	7
1448005	< 10	< 1	0.03	< 10	0.37	0.041	0.070	4.31	7	1	60	0.07	< 20	5	< 2	< 10	33	< 10	4	7
1448006	< 10	< 1	0.03	< 10	0.37	0.043	0.046	4.83	6	< 1	44	0.04	< 20	< 1	2	< 10	28	< 10	2	6
1448007	< 10	< 1	0.02	< 10	0.30	0.039	0.029	2.25	13	< 1	26	0.02	< 20	< 1	< 2	< 10	28	54	1	8
1448008	< 10	< 1	0.04	< 10	0.73	0.063	0.050	2.73	9	< 1	24	0.02	< 20	1	< 2	< 10	26	< 10	1	6
1448009	< 10	2	0.03	< 10	0.40	0.046	0.051	4.83	8	< 1	37	0.03	< 20	< 1	< 2	< 10	28	< 10	2	6
1448010	< 10	< 1	1.03	< 10	2.29	0.086	0.088	2.34	8	7	64	0.15	< 20	2	< 2	< 10	88	< 10	7	3
1448011	< 10	2	0.03	< 10	0.44	0.050	0.047	11.8	6	4	74	0.12	< 20	< 1	< 2	< 10	42	< 10	6	10
1448012	< 10	3	< 0.01	< 10	0.27	0.050	0.061	3.66	13	3	108	0.05	< 20	< 1	< 2	< 10	43	< 10	5	7
1448013	< 10	4	0.01	< 10	0.31	0.048	0.048	2.32	5	5	107	0.13	< 20	6	< 2	< 10	52	< 10	5	7
1448014	< 10	< 1	0.02	< 10	0.71	0.039	0.034	1.13	4	2	80	0.06	< 20	< 1	< 2	< 10	26	< 10	3	4
1448015	< 10	< 1	< 0.01	< 10	0.53	0.042	0.030	10.7	8	1	55	0.03	< 20	< 1	< 2	< 10	19	< 10	1	7
1448016	< 10	3	< 0.01	< 10	0.92	0.056	0.052	5.21	7	2	63	0.04	< 20	5	< 2	< 10	23	< 10	1	6
1448017	< 10	1	< 0.01	< 10	0.86	0.065	0.067	5.12	7	2	71	0.03	< 20	< 1	< 2	< 10	26	< 10	1	6
1448018	< 10	2	0.01	< 10	0.75	0.051	0.050	5.10	8	3	67	0.06	< 20	< 1	< 2	< 10	32	< 10	3	7
1448019	< 10	1	< 0.01	< 10	0.51	0.043	0.031	7.83	9	1	45	0.03	< 20	< 1	< 2	< 10	19	< 10	2	6
1448020	< 10	< 1	0.31	< 10	0.35	0.044	0.043	3.58	3	2	39	0.04	< 20	2	< 2	< 10	28	< 10	4	2
1448021	< 10	1	< 0.01	< 10	0.54	0.033	0.041	0.92	3	2	76	0.07	< 20	4	< 2	< 10	35	< 10	4	5
1448022	< 10	3	< 0.01	< 10	0.39	0.038	0.039	0.77	6	1	75	0.05	< 20	2	< 2	< 10	23	< 10	2	5
1448023	< 10	2	0.01	< 10	0.37	0.038	0.060	2.11	4	3	72	0.12	< 20	5	< 2	< 10	40	< 10	4	7
1448024	< 10	< 1	0.01	< 10	0.25	0.031	0.038	0.89	5	2	96	0.12	< 20	4	< 2	< 10	39	< 10	5	7
1448025	< 10	< 1	0.05	< 10	0.41	0.039	0.055	0.46	3	5	121	0.21	< 20	5	< 2	< 10	61	< 10	9	7
1448026	< 10	< 1	0.01	< 10	0.27	0.031	0.046	1.16	3	2	93	0.09	< 20	6	< 2	< 10	30	< 10	6	5
1448027	< 10	3	0.02	< 10	0.40	0.036	0.039	1.87	3	< 1	72	0.04	< 20	< 1	< 2	< 10	26	< 10	4	4
1448028	< 10	< 1	0.01	< 10	0.47	0.043	0.060	1.82	5	3	111	0.11	< 20	2	< 2	< 10	41	< 10	5	7
1448029	< 10	< 1	0.02	< 10	0.52	0.048	0.056	1.84	4	1	74	0.04	< 20	< 1	< 2	< 10	28	< 10	3	4
1448030	< 10	< 1	0.22	57	0.10	0.117	0.011	0.02	< 2	< 1	14	0.02	30	3	< 2	< 10	10	< 10	13	11
1448031	< 10	1	0.13	< 10	0.59	0.067	0.059	0.67	4	8	119	0.27	< 20	5	< 2	< 10	72	< 10	12	7
1448032	< 10	2	0.02	< 10	0.32	0.035	0.054	2.98	6	1	73	0.05	< 20	< 1	< 2	< 10	25	< 10	3	5
1448033	< 10	2	0.03	< 10	0.38	0.040	0.084	2.55	6	2	55	0.09	< 20	< 1	< 2	< 10	36	< 10	3	6
1448034	< 10	< 1	0.01	< 10	0.68	0.039	0.076	2.02	6	3	64	0.10	< 20	< 1	< 2	< 10	50	< 10	5	7
1448035	< 10	2	0.06	< 10	0.79	0.047	0.088	1.02	4	4	46	0.10	< 20	< 1	< 2	< 10	46	< 10	5	7
1448036	< 10	3	0.01	< 10	0.34	0.032	0.069	5.27	7	< 1	50	0.04	< 20	< 1	3	< 10	28	< 10	2	7
1448037	< 10	3	0.01	< 10	0.42	0.042	0.057	2.37	5	2	58	0.08	< 20	< 1	< 2	< 10	39	< 10	3	8
1448038	< 10	2	0.03	< 10	0.60	0.038	0.045	1.66	5	3	91	0.13	< 20	3	< 2	< 10	46	< 10	6	7
1448039	< 10	2	0.02	< 10	1.14	0.038	0.045	2.29	11	4	67	0.11	< 20	< 1	2	< 10	59	< 10	5	9
1448040	< 10	< 1	0.38	< 10	0.55	0.082	0.059	3.12	4	3	51	0.04	< 20	< 1	< 2	< 10	31	< 10	4	2
1448041	< 10	1	0.04	< 10	1.11	0.036	0.076	3.01	5	7	128	0.18	< 20	< 1	< 2	< 10	70	< 10	9	11
1448042	< 10	2	0.02	< 10	1.08	0.048	0.053	0.87	4	6	112	0.16	< 20	3	< 2	< 10	69	< 10	8	8
1448043	< 10	< 1	0.03	< 10	0.69	0.048	0.040	0.64	6	3	78	0.11	< 20	5	< 2	< 10	59	< 10	6	7
1448044	< 10	3	0.02	< 10	0.41	0.038	0.047	0.97	5	< 1	82	0.05	< 20	2	< 2	< 10	43	< 10	5	6
1448045	< 10	2	0.02	< 10	0.42	0.042	0.037	1.43	7	< 1	122	0.02	< 20	< 1	< 2	< 10	43	< 10	6	6
1448046	< 10	2	0.08	< 10	0.60	0.071	0.069	2.93	4	7	59	0.15	< 20	< 1	< 2	< 10	53	< 10	9	5
1448047	< 10	< 1	0.07	< 10	0.86	0.084	0.066	0.28	3	11	73	0.19	< 20	1	< 2	< 10	52	< 10	12	4
1448048	< 10	1	0.01	< 10	0.85	0.038	0.046	0.52	5	7	231	0.16	< 20	< 1	< 2	< 10	46	< 10	12	8
1448049	< 10	< 1	0.07	< 10	0.62	0.081	0.026	0.05	2	11	93	0.22	< 20	4	< 2	< 10	78	< 10	12	4
1448050	< 10	1	0.34	< 10	0.39	0.047	0.047	4.06	4	2	37	0.04	< 20	1	< 2	< 10	28	< 10	4	3
1448351	< 10	< 1	0.03	< 10	0.74	0.053	0.056	0.48	4	7	200	0.24	< 20	< 1	< 2	< 10	62	< 10	8	8

Analyte Symbol	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448352	< 10	< 1	0.02	< 10	1.01	0.051	0.034	0.80	6	8	206	0.25	< 20	3	< 2	< 10	70	< 10	9	7
1448353	< 10	< 1	0.03	< 10	1.05	0.057	0.044	0.43	4	11	175	0.30	< 20	< 1	< 2	< 10	107	< 10	11	6
1448354	< 10	< 1	0.06	< 10	1.01	0.090	0.032	0.26	3	11	106	0.25	< 20	3	< 2	< 10	84	< 10	11	4
1448355	< 10	< 1	0.07	< 10	1.08	0.082	0.052	0.34	4	11	177	0.23	< 20	2	< 2	< 10	85	< 10	12	5
1448356	< 10	< 1	0.07	< 10	0.82	0.083	0.067	0.14	4	10	208	0.20	< 20	3	< 2	< 10	51	< 10	13	6
1448357	< 10	< 1	0.11	< 10	0.75	0.113	0.065	0.15	3	12	129	0.20	< 20	4	< 2	< 10	59	< 10	15	4
1448358	< 10	1	0.03	< 10	0.56	0.047	0.061	0.66	6	8	213	0.15	< 20	< 1	2	< 10	61	< 10	15	7
1448359	< 10	< 1	0.02	< 10	0.31	0.041	0.039	5.89	7	1	66	0.05	< 20	< 1	4	< 10	43	< 10	4	9
1448360	< 10	< 1	0.22	54	0.11	0.113	0.012	0.01	< 2	1	15	0.02	30	4	< 2	< 10	11	< 10	13	10
1448361	< 10	< 1	0.11	< 10	1.70	0.333	0.091	0.49	3	16	467	0.23	< 20	2	< 2	< 10	164	< 10	13	9
1448362	< 10	< 1	0.08	< 10	2.26	0.337	0.097	0.64	4	17	346	0.29	< 20	< 1	< 2	< 10	179	< 10	16	11
1448363	< 10	2	0.23	< 10	1.16	0.095	0.058	0.03	4	17	123	0.20	< 20	< 1	< 2	< 10	86	< 10	19	3
1448364	< 10	< 1	0.26	< 10	1.03	0.086	0.048	0.02	4	17	102	0.16	< 20	4	< 2	< 10	88	< 10	17	2
1448365	10	3	0.23	< 10	1.80	0.110	0.081	0.08	2	16	162	0.15	< 20	3	< 2	< 10	140	< 10	17	5
1448366	< 10	< 1	0.12	< 10	0.32	0.086	0.061	0.01	2	10	152	0.07	< 20	< 1	< 2	< 10	113	< 10	12	1
1448367	< 10	< 1	0.20	< 10	0.60	0.114	0.062	0.01	3	10	118	0.10	< 20	< 1	< 2	< 10	119	< 10	13	2
1448368	< 10	< 1	0.27	< 10	0.57	0.144	0.075	0.01	3	11	141	0.12	< 20	3	< 2	< 10	146	< 10	11	3
1448369	< 10	< 1	0.15	< 10	0.44	0.131	0.060	0.01	2	10	140	0.06	< 20	2	< 2	< 10	112	< 10	9	2
1448370	< 10	< 1	0.40	< 10	0.56	0.083	0.060	3.21	3	3	54	0.04	< 20	< 1	< 2	< 10	32	< 10	5	2
1448371	< 10	< 1	0.25	< 10	0.63	0.149	0.075	0.01	3	13	154	0.11	< 20	< 1	< 2	< 10	156	< 10	12	3
1448372	< 10	< 1	0.32	< 10	0.66	0.168	0.072	< 0.01	2	12	137	0.12	< 20	< 1	< 2	< 10	152	< 10	12	3
1448373	< 10	< 1	0.26	10	0.67	0.106	0.072	< 0.01	3	11	105	0.12	< 20	1	< 2	< 10	127	< 10	13	3
1448374	< 10	< 1	0.22	10	1.08	0.125	0.078	< 0.01	3	10	123	0.16	< 20	3	< 2	< 10	142	< 10	11	4
1448375	< 10	< 1	0.17	< 10	1.13	0.108	0.071	0.01	2	10	101	0.15	< 20	< 1	< 2	< 10	142	< 10	12	3
1448376	< 10	< 1	0.17	10	1.27	0.096	0.076	< 0.01	3	11	107	0.16	< 20	< 1	< 2	< 10	149	< 10	13	4
1448377	< 10	< 1	0.23	10	0.85	0.120	0.079	< 0.01	3	9	101	0.18	< 20	< 1	< 2	< 10	145	< 10	11	4
1448378	< 10	< 1	0.97	< 10	2.15	0.082	0.084	2.16	7	7	59	0.14	< 20	< 1	< 2	< 10	83	< 10	6	3

Analyte Symbol	Au	Au	Pd	Pt	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe
Unit Symbol	ppb	ppb	ppb	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	2	5	5	0.001	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas						27.1	2.0	1080	765	13	29	626	653	0.32	338	< 10	176	0.7	1370	0.74	7	6	21.7
GXR-1 Cert						31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6
GXR-4 Meas						3.1	< 0.5	6030	135	304	38	41	69	2.48	90	< 10	16	1.3	9	0.89	14	48	2.91
GXR-4 Cert						4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09
GXR-6 Meas						0.2	< 0.5	66	947	1	20	88	117	5.85	195	< 10	650	0.8	< 2	0.14	13	66	4.75
GXR-6 Cert						1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58
GXR-6 Meas						0.2	< 0.5	64	1010	1	24	97	121	6.48	194	< 10	705	0.9	< 2	0.15	13	71	5.21
GXR-6 Cert						1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58
MP-1b Meas					3.09																		
MP-1b Cert					3.069																		
SAR-M (U.S.G.S.) Meas						2.9	5.3	300	4160	12	38	1000	959	0.97	33		158	1.0	< 2	0.31	10	77	2.60
SAR-M (U.S.G.S.) Cert						3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99
SAR-M (U.S.G.S.) Meas						3.6	5.3	336	4410	12	40	1070	991	1.10	38		174	1.0	< 2	0.34	11	82	2.86
SAR-M (U.S.G.S.) Cert						3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99
PK2 Meas		4580	5790	4600																			
PK2 Cert		4785.000	5918.000	4749.000																			
CCU-1d Meas					23.9																		
CCU-1d Cert					23.93																		
CZN-4 Meas					0.417																		
CZN-4 Cert					0.403																		
SF67 Meas	802																						
SF67 Cert	835																						
SF67 Meas	822																						
SF67 Cert	835																						
SF67 Meas	795																						
SF67 Cert	835																						
SF67 Meas	833																						
SF67 Cert	835																						
SE68 Meas	576																						
SE68 Cert	599																						
SE68 Meas	592																						
SE68 Cert	599																						
SE68 Meas	577																						
SE68 Cert	599																						
SE68 Meas	590																						
SE68 Cert	599																						
CDN-PGMS-25 Meas		499	1950	397																			
CDN-PGMS-25 Cert		483	1830	400																			
OREAS 922 (AQUA REGIA) Meas						0.6	< 0.5	2150	740	< 1	34	61	259	2.64	< 2		75	0.7	4	0.42	19	40	4.88
OREAS 922 (AQUA REGIA) Cert						0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05
OREAS 922 (AQUA REGIA) Meas						0.7	< 0.5	2140	735	< 1	35	62	256	2.60	4		76	0.7	3	0.41	20	41	4.80

Analyte Symbol	Au	Au	Pd	Pt	Cu	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe
Unit Symbol	ppb	ppb	ppb	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
Lower Limit	5	2	5	5	0.001	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Cert						0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05
OREAS 923 (AQUA REGIA) Meas						1.4	0.5	4150	849	< 1	32	78	334	2.71	4		63	0.6	8	0.42	21	38	5.64
OREAS 923 (AQUA REGIA) Cert						1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91
OREAS 923 (AQUA REGIA) Meas						1.4	< 0.5	4170	845	< 1	31	80	329	2.63	5		60	0.6	16	0.41	21	37	5.63
OREAS 923 (AQUA REGIA) Cert						1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91
PTC-1b Meas					7.96																		
PTC-1b Cert					7.97																		
1448008 Orig	230																						
1448008 Dup	175																						
1448014 Orig		3	< 5	6																			
1448014 Dup		4	< 5	< 5																			
1448016 Orig						< 0.2	< 0.5	761	567	7	80	< 2	9	0.29	36	< 10	11	< 0.5	< 2	5.75	313	2	10.3
1448016 Dup						< 0.2	< 0.5	945	624	7	102	3	8	0.33	43	< 10	< 10	< 0.5	< 2	6.29	354	3	12.6
1448027 Orig	63																						
1448027 Dup	59																						
1448030 Orig						< 0.2	< 0.5	42	293	3	2	8	21	0.43	< 2	< 10	36	0.6	< 2	0.39	2	16	1.08
1448030 Dup						< 0.2	< 0.5	46	300	3	2	8	21	0.45	< 2	< 10	38	0.7	< 2	0.39	2	16	1.11
1448032 Orig	259																						
1448032 Dup	284																						
1448035 Orig					1.15																		
1448035 Dup					1.14																		
1448043 Orig	13					0.2	< 0.5	5200	154	10	12	4	11	1.08	4	< 10	< 10	0.8	< 2	2.19	28	4	12.0
1448043 Dup	13					0.3	< 0.5	5300	160	10	5	4	11	1.13	2	< 10	10	0.8	< 2	2.30	28	4	12.3
1448353 Orig	23					< 0.2	< 0.5	4350	337	< 1	6	< 2	21	2.25	< 2	< 10	13	< 0.5	< 2	3.74	14	6	5.35
1448353 Split PREP DUP	8					< 0.2	< 0.5	4400	352	2	7	< 2	21	2.39	< 2	< 10	14	< 0.5	< 2	3.86	15	7	5.57
1448357 Orig						< 0.2	< 0.5	426	416	< 1	2	< 2	27	2.54	< 2	< 10	32	< 0.5	< 2	3.54	14	3	3.35
1448357 Dup						< 0.2	< 0.5	441	427	< 1	3	< 2	27	2.59	< 2	< 10	32	< 0.5	< 2	3.58	14	3	3.52
1448361 Orig	< 5																						
1448361 Dup	< 5																						
1448366 Orig	< 5																						
1448366 Dup	< 5																						
1448377 Orig	5																						
1448377 Dup	< 5																						
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 2	< 5	< 5																			
Method Blank		< 2	< 5	< 5																			
Method Blank					< 0.001																		

Analyte Symbol	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 10	4	0.03	< 10	0.12	0.046	0.037	0.20	79	< 1	151	< 0.01	< 20	6	< 2	32	75	121	22	16
GXR-1 Cert	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	< 10	< 1	1.46	40	1.45	0.119	0.113	1.74	4	7	64	0.13	< 20	2	< 2	< 10	78	12	11	11
GXR-4 Cert	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	10	1	0.88	< 10	0.33	0.065	0.029	0.01	5	19	25		< 20	< 1	< 2	< 10	154	< 10	5	9
GXR-6 Cert	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	10	< 1	0.96	< 10	0.36	0.072	0.031	0.01	4	21	27		< 20	2	3	< 10	160	< 10	5	6
GXR-6 Cert	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
MP-1b Meas																				
MP-1b Cert																				
SAR-M (U.S.G.S.) Meas	< 10		0.23	45	0.30	0.030	0.059		4	3	27	0.05	< 20	2	< 2	< 10	33	< 10	19	
SAR-M (U.S.G.S.) Cert	17		2.94	57.4	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
SAR-M (U.S.G.S.) Meas	< 10		0.25	49	0.33	0.034	0.063		5	4	29	0.05	< 20	< 1	< 2	< 10	36	< 10	21	
SAR-M (U.S.G.S.) Cert	17		2.94	57.4	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
PK2 Meas																				
PK2 Cert																				
CCU-1d Meas																				
CCU-1d Cert																				
CZN-4 Meas																				
CZN-4 Cert																				
SF67 Meas																				
SF67 Cert																				
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SE68 Cert																				
SE68 Meas																				
SE68 Cert																				
CDN-PGMS-25 Meas																				
CDN-PGMS-25 Cert																				
OREAS 922 (AQUA REGIA) Meas	< 10		0.40	35	1.25	0.027	0.058	0.36	4	4	15		< 20		< 2	< 10	35	< 10	19	21
OREAS 922 (AQUA REGIA) Cert	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	< 10		0.38	35	1.22	0.026	0.057	0.36	3	3	14		< 20		< 2	< 10	34	< 10	19	28
OREAS 922 (AQUA	7.62		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3

Analyte Symbol	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
REGIA) Cert																				
OREAS 923 (AQUA REGIA) Meas	< 10		0.35	32	1.34		0.056	0.66	< 2	4	13		< 20		< 2	< 10	35	< 10	18	37
OREAS 923 (AQUA REGIA) Cert	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	< 10		0.33	31	1.34		0.055	0.67	3	3	13		< 20		< 2	< 10	34	< 10	17	34
OREAS 923 (AQUA REGIA) Cert	8.01		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
PTC-1b Meas																				
PTC-1b Cert																				
1448008 Orig																				
1448008 Dup																				
1448014 Orig																				
1448014 Dup																				
1448016 Orig	< 10	2	< 0.01	< 10	0.85	0.051	0.049	4.71	6	2	61	0.03	< 20	6	< 2	< 10	22	< 10	1	5
1448016 Dup	< 10	4	< 0.01	< 10	0.99	0.061	0.055	5.70	8	2	65	0.04	< 20	4	< 2	< 10	25	< 10	1	6
1448027 Orig																				
1448027 Dup																				
1448030 Orig	< 10	< 1	0.22	56	0.10	0.115	0.011	0.02	< 2	< 1	14	0.02	30	5	< 2	< 10	10	< 10	13	11
1448030 Dup	< 10	< 1	0.23	57	0.10	0.119	0.011	0.02	< 2	< 1	14	0.02	30	1	< 2	< 10	10	< 10	13	12
1448032 Orig																				
1448032 Dup																				
1448035 Orig																				
1448035 Dup																				
1448043 Orig	< 10	2	0.03	< 10	0.68	0.046	0.039	0.62	6	3	76	0.10	< 20	4	< 2	< 10	58	< 10	6	7
1448043 Dup	< 10	< 1	0.03	< 10	0.70	0.050	0.041	0.65	5	3	81	0.11	< 20	6	3	< 10	60	< 10	6	7
1448353 Orig	< 10	< 1	0.03	< 10	1.05	0.057	0.044	0.43	4	11	175	0.30	< 20	< 1	< 2	< 10	107	< 10	11	6
1448353 Split PREP DUP	< 10	< 1	0.04	< 10	1.04	0.071	0.043	0.44	4	11	184	0.30	< 20	6	< 2	< 10	109	< 10	11	6
1448357 Orig	< 10	< 1	0.11	< 10	0.74	0.112	0.065	0.15	2	12	129	0.20	< 20	5	< 2	< 10	58	< 10	15	4
1448357 Dup	< 10	< 1	0.11	< 10	0.76	0.113	0.066	0.16	5	12	129	0.20	< 20	4	< 2	< 10	60	< 10	16	4
1448361 Orig																				
1448361 Dup																				
1448366 Orig																				
1448366 Dup																				
1448377 Orig																				
1448377 Dup																				
Method Blank																				
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Quality Analysis ... *Innovative Technologies*

Date Submitted:	28-Jul-16
Invoice No.:	A16-07412
Invoice Date:	11-Aug-16
Your Reference:	THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

15 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

Code Sieve Report-Kamloops-Internal Sieve Report

REPORT **A16-07412**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1448379	< 5	< 0.2	< 0.5	452	305	3	2	< 2	20	2.58	21	< 10	28	< 0.5	< 2	4.08	33	10	3.83	< 10	< 1	0.05	< 10
1448380	< 5	< 0.2	< 0.5	112	338	< 1	1	< 2	23	1.90	7	< 10	50	< 0.5	< 2	2.17	25	8	3.16	< 10	< 1	0.11	< 10
1448381	< 5	< 0.2	< 0.5	209	263	< 1	4	4	22	2.24	22	< 10	27	< 0.5	< 2	2.70	28	8	2.96	< 10	< 1	0.10	< 10
1448382	< 5	< 0.2	< 0.5	715	322	< 1	2	< 2	29	1.80	43	< 10	61	< 0.5	< 2	2.30	43	6	3.14	< 10	< 1	0.09	< 10
1448383	< 5	< 0.2	< 0.5	3	335	3	1	8	23	0.53	< 2	< 10	35	0.7	< 2	0.57	1	19	1.26	< 10	< 1	0.24	72
1448002	134	5.7	< 0.5	> 10000	333	1	13	3	24	1.68	95	< 10	< 10	< 0.5	< 2	3.31	102	5	9.12	< 10	1	0.02	< 10
1448003	10	0.2	< 0.5	2960	374	1	2	3	14	1.93	58	< 10	13	< 0.5	< 2	2.86	49	9	4.29	< 10	< 1	0.04	< 10
1437093	7	< 0.2	< 0.5	539	934	3	14	< 2	16	1.40	31	< 10	< 10	< 0.5	< 2	12.3	121	4	4.41	< 10	< 1	< 0.01	< 10
1437094	< 5	< 0.2	< 0.5	827	406	3	< 1	< 2	13	2.35	14	< 10	15	< 0.5	< 2	5.91	135	9	3.76	< 10	< 1	0.03	< 10
1437095	< 5	< 0.2	< 0.5	383	317	2	17	< 2	9	1.90	16	< 10	< 10	< 0.5	< 2	4.85	117	6	4.68	< 10	< 1	0.01	< 10
1437096	10	< 0.2	< 0.5	640	270	1	27	< 2	7	2.09	23	< 10	14	< 0.5	< 2	6.44	244	5	5.70	< 10	< 1	0.02	< 10
1437097	12	< 0.2	< 0.5	1130	208	4	9	< 2	13	1.68	34	< 10	18	< 0.5	< 2	2.93	261	12	4.03	< 10	< 1	0.06	< 10
1437098	6	< 0.2	< 0.5	401	259	< 1	3	< 2	18	2.01	11	< 10	43	< 0.5	< 2	2.86	43	10	2.85	< 10	< 1	0.12	< 10
1437099	5	< 0.2	< 0.5	1240	274	1	2	< 2	19	2.02	17	< 10	41	< 0.5	< 2	2.82	36	7	2.91	< 10	< 1	0.10	< 10
1437100	432	2.4	3.2	2610	1010	19	21	67	649	2.37	52	< 10	14	< 0.5	< 2	1.07	12	28	5.24	< 10	< 1	0.44	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1448379	0.77	0.066	0.064	0.30	4	12	161	0.26	< 20	6	< 2	< 10	79	< 10	12	5	
1448380	0.84	0.135	0.068	0.39	2	12	75	0.26	< 20	3	< 2	< 10	84	< 10	15	3	
1448381	0.63	0.126	0.071	0.70	6	11	43	0.29	< 20	5	< 2	< 10	60	< 10	19	5	
1448382	0.79	0.148	0.071	0.47	< 2	9	123	0.27	< 20	4	< 2	< 10	67	< 10	16	4	
1448383	0.13	0.122	0.015	0.02	< 2	1	22	0.02	30	2	< 2	< 10	13	< 10	17	12	
1448002	0.48	0.052	0.045	3.61	6	6	161	0.19	< 20	< 1	< 2	< 10	47	11	10	9	3.79
1448003	0.77	0.064	0.049	0.31	3	10	136	0.24	< 20	< 1	< 2	< 10	65	< 10	12	6	
1437093	0.47	0.039	0.098	1.58	3	9	162	0.15	< 20	3	< 2	< 10	68	< 10	9	7	
1437094	0.80	0.079	0.059	0.58	4	9	217	0.31	< 20	3	2	< 10	73	< 10	15	11	
1437095	0.60	0.048	0.080	1.43	6	8	177	0.26	< 20	3	< 2	< 10	65	< 10	12	10	
1437096	0.40	0.049	0.080	2.66	7	6	198	0.25	< 20	< 1	< 2	< 10	54	< 10	12	14	
1437097	0.31	0.087	0.036	1.82	4	8	107	0.27	< 20	3	< 2	< 10	49	< 10	17	7	
1437098	0.53	0.130	0.058	0.76	2	10	84	0.27	< 20	< 1	< 2	< 10	56	< 10	20	6	
1437099	0.65	0.127	0.065	0.47	3	10	95	0.27	< 20	4	< 2	< 10	70	< 10	15	4	
1437100	0.64	0.095	0.068	3.31	5	3	61	0.04	< 20	< 1	< 2	< 10	36	< 10	5	3	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		27.2	2.3	1080	747	15	31	579	641	0.34	350	< 10	97	0.8	1410	0.77	4	6	21.1	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.1	< 0.5	6160	132	316	34	38	67	2.67	93	< 10	20	1.4	20	0.91	12	47	2.90	< 10	< 1	1.55	40
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		< 0.2	< 0.5	66	1060	2	22	90	123	7.30	212	< 10	766	0.9	< 2	0.15	12	74	5.45	20	2	1.06	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
MP-1b Meas																							
MP-1b Cert																							
SAR-M (U.S.G.S.) Meas		3.4	5.2	366	4750	14	44	1020	1030	1.28	41		193	1.2	< 2	0.37	10	92	3.12	< 10		0.29	57
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
CCU-1d Meas																							
CCU-1d Cert																							
CZN-4 Meas																							
CZN-4 Cert																							
SF67 Meas	811																						
SF67 Cert	835																						
SE68 Meas	581																						
SE68 Cert	599																						
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2240	756	< 1	33	56	255	2.81	3		78	0.7	3	0.43	16	40	4.98	< 10		0.40	37
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
PTC-1b Meas																							
PTC-1b Cert																							
1448383 Orig	< 5																						
1448383 Dup	< 5																						
1448002 Orig																							
1448002 Dup																							
1437098 Orig		< 0.2	< 0.5	394	257	< 1	3	< 2	17	2.00	9	< 10	43	< 0.5	< 2	2.85	42	9	2.82	< 10	< 1	0.12	< 10
1437098 Dup		< 0.2	< 0.5	408	262	2	3	3	20	2.03	13	< 10	44	< 0.5	< 2	2.88	43	10	2.87	< 10	< 1	0.12	< 10
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.001
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
GXR-1 Meas	0.12	0.049	0.040	0.18	72	1	161	< 0.01	< 20	12	< 2	30	79	129	23	14	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	1.50	0.130	0.114	1.63	5	7	67	0.13	< 20	3	4	< 10	82	11	11	9	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	
GXR-6 Meas	0.38	0.080	0.033	0.01	3	23	30		< 20	1	< 2	< 10	180	< 10	6	6	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
MP-1b Meas																	3.02
MP-1b Cert																	3.069
SAR-M (U.S.G.S.) Meas	0.37	0.039	0.069		6	4	34	0.06	< 20	2	< 2	< 10	41	< 10	23		
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00		
CCU-1d Meas																	24.1
CCU-1d Cert																	23.93
CZN-4 Meas																	0.401
CZN-4 Cert																	0.403
SF67 Meas																	
SF67 Cert																	
SE68 Meas																	
SE68 Cert																	
OREAS 922 (AQUA REGIA) Meas	1.31	0.030	0.058	0.35	3	4	16		< 20		< 2	< 10	37	< 10	19	24	
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3	
PTC-1b Meas																	7.92
PTC-1b Cert																	7.97
1448383 Orig																	
1448383 Dup																	
1448002 Orig																	3.82
1448002 Dup																	3.77
1437098 Orig	0.52	0.128	0.057	0.76	2	10	84	0.27	< 20	3	< 2	< 10	56	< 10	20	5	
1437098 Dup	0.53	0.131	0.058	0.76	3	10	84	0.27	< 20	< 1	< 2	< 10	56	< 10	20	6	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	< 0.001

Quality Analysis ... *Innovative Technologies*

Date Submitted:	02-Aug-16
Invoice No.:	A16-07535
Invoice Date:	17-Aug-16
Your Reference:	THULE

2016 Thule Copper Flow-Through
3329 Aberdeen Rd
Lower Nicola BC V0K 1Y0
Canada

ATTN: Brian May

CERTIFICATE OF ANALYSIS

76 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Kamloops Au - Fire Assay AA

Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A16-07535**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1437101	26	0.4	0.5	2250	222	29	15	3	29	1.41	10	21	53	< 0.5	< 2	2.47	11	22	7.42	< 10	< 1	0.42	< 10
1437102	16	0.2	< 0.5	8670	84	49	19	< 2	11	0.33	6	142	10	0.5	5	0.53	12	12	23.9	< 10	< 1	0.02	< 10
1437103	< 5	< 0.2	< 0.5	14	333	4	2	8	25	0.53	< 2	< 10	34	0.7	< 2	0.38	1	14	1.26	< 10	< 1	0.25	68
1437104	< 5	< 0.2	< 0.5	321	442	5	23	< 2	48	2.33	< 2	< 10	77	< 0.5	< 2	3.11	25	17	5.37	< 10	1	0.26	12
1437105	< 5	< 0.2	< 0.5	44	599	12	20	< 2	80	2.56	< 2	< 10	76	< 0.5	< 2	5.34	20	13	4.24	< 10	< 1	0.44	10
1437106	< 5	< 0.2	< 0.5	297	547	16	26	2	83	2.49	3	< 10	61	< 0.5	< 2	3.53	22	18	4.65	< 10	< 1	0.31	< 10
1437107	6	< 0.2	< 0.5	191	558	25	22	< 2	80	2.36	< 2	< 10	53	< 0.5	< 2	4.28	22	16	4.32	< 10	< 1	0.28	10
1437108	< 5	< 0.2	< 0.5	193	537	2	23	3	57	2.63	< 2	< 10	50	< 0.5	< 2	3.27	23	17	4.28	< 10	< 1	0.17	11
1437109	< 5	< 0.2	< 0.5	177	481	2	19	< 2	51	2.37	< 2	< 10	57	< 0.5	< 2	3.03	22	15	3.97	< 10	< 1	0.16	< 10
1437110	< 5	< 0.2	< 0.5	96	423	3	20	< 2	40	2.26	< 2	< 10	74	< 0.5	< 2	3.12	20	16	4.14	< 10	< 1	0.24	11
1437111	< 5	< 0.2	< 0.5	103	466	3	18	< 2	47	2.36	3	< 10	44	< 0.5	< 2	3.14	25	17	4.14	< 10	< 1	0.17	12
1437112	6	< 0.2	< 0.5	115	479	2	20	< 2	62	2.18	< 2	< 10	100	< 0.5	< 2	2.07	26	20	4.40	< 10	< 1	0.35	12
1437113	803	5.2	5.8	5340	859	143	16	109	930	1.82	26	< 10	10	< 0.5	< 2	0.68	16	20	6.09	< 10	1	0.41	< 10
1437114	< 5	< 0.2	< 0.5	159	427	3	17	< 2	48	2.33	< 2	< 10	43	< 0.5	< 2	2.86	22	15	4.01	< 10	< 1	0.16	11
1437115	< 5	< 0.2	< 0.5	331	475	3	21	< 2	51	2.44	< 2	< 10	38	< 0.5	< 2	3.00	24	15	4.30	< 10	< 1	0.17	11
1437116	5	< 0.2	< 0.5	203	599	2	25	< 2	65	2.84	< 2	< 10	30	0.6	< 2	3.33	24	20	4.28	< 10	< 1	0.14	< 10
1437117	< 5	< 0.2	< 0.5	228	605	1	22	< 2	67	2.95	< 2	< 10	37	0.6	< 2	3.14	25	17	4.26	< 10	< 1	0.14	< 10
1437118	< 5	< 0.2	< 0.5	150	537	< 1	21	2	58	2.66	3	< 10	44	< 0.5	< 2	2.92	24	17	4.37	< 10	< 1	0.15	< 10
1437119	< 5	< 0.2	< 0.5	412	539	< 1	23	< 2	55	2.38	< 2	< 10	39	< 0.5	< 2	3.09	24	18	4.54	< 10	1	0.16	< 10
1437120	< 5	0.3	< 0.5	913	626	4	19	< 2	78	2.41	< 2	< 10	62	< 0.5	< 2	4.90	21	15	4.06	< 10	< 1	0.28	< 10
1437121	< 5	< 0.2	< 0.5	46	302	< 1	9	< 2	30	1.53	< 2	< 10	57	< 0.5	< 2	4.27	10	13	1.15	< 10	< 1	0.31	< 10
1437122	< 5	< 0.2	< 0.5	33	334	< 1	10	< 2	31	2.08	< 2	< 10	68	< 0.5	< 2	5.28	10	13	1.30	< 10	< 1	0.34	< 10
1437123	387	2.5	3.5	2480	1050	21	21	72	671	2.45	50	< 10	18	< 0.5	< 2	1.07	15	28	5.22	< 10	2	0.47	< 10
1437124	< 5	< 0.2	< 0.5	131	513	1	22	< 2	53	2.73	3	< 10	37	0.6	< 2	3.31	22	16	4.02	< 10	< 1	0.15	< 10
1437125	< 5	< 0.2	< 0.5	89	534	< 1	24	< 2	51	2.89	< 2	< 10	31	< 0.5	< 2	3.21	21	14	3.88	< 10	< 1	0.11	< 10
1437126	< 5	< 0.2	< 0.5	95	497	< 1	19	< 2	59	2.49	< 2	< 10	49	< 0.5	< 2	2.67	20	16	3.82	< 10	< 1	0.19	11
1437127	< 5	< 0.2	< 0.5	77	573	19	20	< 2	73	2.33	< 2	< 10	58	< 0.5	< 2	4.64	20	15	3.95	< 10	< 1	0.36	< 10
1437128	< 5	< 0.2	0.5	126	524	2	23	< 2	59	2.08	< 2	< 10	67	< 0.5	< 2	2.19	24	17	4.15	< 10	< 1	0.25	< 10
1437129	< 5	< 0.2	< 0.5	125	499	5	18	3	58	2.25	3	< 10	54	< 0.5	< 2	2.48	21	15	4.01	< 10	< 1	0.21	< 10
1437130	< 5	2.2	< 0.5	3420	556	29	20	< 2	56	2.30	< 2	< 10	49	< 0.5	8	5.06	20	14	4.09	< 10	< 1	0.31	< 10
1437131	< 5	< 0.2	< 0.5	155	433	3	19	< 2	46	2.16	3	< 10	35	< 0.5	< 2	2.88	21	15	4.08	< 10	< 1	0.17	11
1437132	< 5	< 0.2	< 0.5	108	495	3	18	< 2	50	2.42	12	< 10	35	< 0.5	< 2	3.16	20	15	4.04	< 10	< 1	0.18	12
1437133	< 5	< 0.2	< 0.5	3	369	4	2	9	25	0.57	< 2	< 10	39	0.8	< 2	0.45	1	16	1.25	< 10	< 1	0.28	70
1437134	< 5	< 0.2	< 0.5	111	503	< 1	17	< 2	50	2.45	< 2	< 10	37	0.5	< 2	3.08	20	15	3.97	< 10	< 1	0.17	12
1437135	6	< 0.2	< 0.5	103	434	1	18	< 2	36	2.64	< 2	< 10	23	< 0.5	< 2	3.67	17	14	3.67	< 10	< 1	0.14	12
1437136	< 5	< 0.2	< 0.5	147	384	3	18	2	29	2.29	< 2	< 10	28	< 0.5	< 2	3.57	18	15	3.70	< 10	< 1	0.15	10
1437137	5	< 0.2	< 0.5	162	378	2	20	< 2	42	2.26	< 2	< 10	79	< 0.5	< 2	2.42	22	15	4.15	< 10	< 1	0.33	< 10
1437138	< 5	< 0.2	< 0.5	154	353	2	20	< 2	38	1.94	< 2	< 10	75	< 0.5	< 2	2.51	22	19	4.09	< 10	< 1	0.29	< 10
1437139	< 5	< 0.2	< 0.5	113	352	2	20	< 2	46	2.04	< 2	< 10	125	< 0.5	< 2	1.86	24	17	4.33	< 10	< 1	0.47	< 10
1437140	< 5	< 0.2	< 0.5	167	393	2	19	< 2	50	2.32	< 2	< 10	87	< 0.5	< 2	2.23	23	19	4.15	< 10	< 1	0.39	11
1437141	< 5	< 0.2	< 0.5	191	413	2	21	< 2	53	2.19	< 2	11	99	< 0.5	< 2	1.96	24	16	4.22	< 10	< 1	0.43	10
1437142	< 5	< 0.2	< 0.5	138	474	2	18	< 2	53	2.37	3	10	50	< 0.5	< 2	2.63	22	17	3.90	< 10	< 1	0.25	10
1437143	23	2.5	1.1	3530	325	266	229	24	169	2.51	28	< 10	24	< 0.5	2	1.30	39	191	3.95	< 10	< 1	1.19	< 10
1437144	< 5	< 0.2	< 0.5	103	433	6	20	< 2	47	2.37	< 2	< 10	39	< 0.5	< 2	3.12	21	16	3.94	< 10	< 1	0.21	12
1437145	< 5	< 0.2	< 0.5	58	391	< 1	21	< 2	35	2.58	< 2	< 10	25	< 0.5	< 2	3.56	19	13	3.73	< 10	< 1	0.15	< 10
1437146	21	< 0.2	< 0.5	91	396	< 1	18	< 2	37	2.70	< 2	< 10	32	0.6	< 2	3.12	19	13	3.62	< 10	< 1	0.17	10
1437147	< 5	< 0.2	< 0.5	76	387	1	17	< 2	41	3.01	< 2	< 10	29	0.6	< 2	3.05	18	11	3.44	< 10	< 1	0.15	< 10
1437148	< 5	< 0.2	< 0.5	101	449	< 1	20	< 2	52	2.53	< 2	< 10	45	< 0.5	< 2	2.58	21	13	3.76	< 10	< 1	0.21	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1437149	5	< 0.2	< 0.5	107	497	< 1	21	< 2	55	2.64	3	< 10	58	< 0.5	< 2	2.81	21	15	4.01	< 10	< 1	0.27	10
1437150	6	< 0.2	< 0.5	97	381	< 1	19	2	48	2.66	< 2	< 10	56	< 0.5	< 2	2.67	19	12	3.65	< 10	< 1	0.27	< 10
1437151	< 5	< 0.2	< 0.5	120	470	1	20	< 2	59	2.47	3	< 10	62	< 0.5	< 2	2.35	22	13	3.95	< 10	< 1	0.26	< 10
1437152	< 5	< 0.2	< 0.5	82	418	< 1	19	2	54	2.45	3	< 10	62	< 0.5	< 2	2.48	19	12	3.33	< 10	< 1	0.27	< 10
1437153	361	2.4	3.4	2470	1030	20	22	66	646	2.46	49	< 10	20	< 0.5	< 2	1.05	15	27	5.07	< 10	< 1	0.48	< 10
1437154	< 5	< 0.2	< 0.5	113	436	1	24	< 2	59	2.42	3	< 10	130	< 0.5	< 2	1.91	24	17	4.41	< 10	< 1	0.54	< 10
1437155	12	< 0.2	< 0.5	170	538	1	22	3	57	2.60	< 2	< 10	75	< 0.5	< 2	2.92	23	15	4.33	< 10	< 1	0.31	< 10
1437156	7	< 0.2	< 0.5	213	483	10	25	< 2	66	2.75	< 2	< 10	43	< 0.5	< 2	2.49	21	16	4.19	< 10	< 1	0.29	< 10
1437157	17	< 0.2	< 0.5	79	520	1	27	< 2	67	2.86	< 2	< 10	48	< 0.5	< 2	3.17	24	15	4.58	< 10	3	0.26	10
1437158	< 5	< 0.2	< 0.5	121	497	< 1	23	< 2	49	2.72	3	< 10	47	< 0.5	< 2	3.16	21	16	4.25	< 10	< 1	0.24	10
1437159	< 5	< 0.2	< 0.5	110	481	< 1	21	< 2	53	2.64	< 2	< 10	58	< 0.5	< 2	2.60	20	13	3.78	< 10	< 1	0.24	< 10
1437160	< 5	< 0.2	< 0.5	138	472	< 1	21	< 2	60	2.21	3	< 10	58	< 0.5	< 2	2.08	23	15	4.07	< 10	< 1	0.27	10
1437161	< 5	< 0.2	< 0.5	127	451	1	22	< 2	55	2.04	< 2	< 10	71	< 0.5	< 2	2.11	23	15	4.03	< 10	< 1	0.33	< 10
1437162	< 5	< 0.2	< 0.5	154	428	1	21	< 2	53	2.24	< 2	< 10	76	< 0.5	< 2	2.35	20	15	3.94	< 10	< 1	0.29	10
1437163	21	< 0.2	< 0.5	2	298	3	2	7	22	0.47	10	< 10	34	0.7	< 2	0.35	1	7	1.00	< 10	< 1	0.24	61
1437164	< 5	< 0.2	< 0.5	137	399	3	20	< 2	57	2.02	11	< 10	74	< 0.5	< 2	1.92	21	16	4.02	< 10	< 1	0.31	11
1437165	6	< 0.2	< 0.5	192	515	8	23	< 2	64	2.34	< 2	< 10	64	< 0.5	< 2	2.55	24	15	4.23	< 10	< 1	0.27	10
1437166	< 5	< 0.2	< 0.5	120	527	1	25	2	60	2.28	< 2	< 10	75	< 0.5	< 2	2.33	24	17	4.31	< 10	< 1	0.29	< 10
1437167	< 5	< 0.2	< 0.5	217	558	1	24	< 2	63	2.46	< 2	< 10	74	< 0.5	< 2	2.36	24	17	4.41	< 10	< 1	0.29	< 10
1437168	< 5	< 0.2	< 0.5	116	621	8	24	2	67	2.60	< 2	< 10	46	< 0.5	< 2	2.88	22	16	4.16	< 10	< 1	0.18	11
1437169	8	< 0.2	< 0.5	127	587	3	21	< 2	67	3.03	< 2	< 10	53	< 0.5	< 2	3.10	21	15	4.11	< 10	1	0.20	11
1437170	< 5	< 0.2	< 0.5	176	610	6	25	< 2	75	2.86	< 2	< 10	70	< 0.5	< 2	3.00	24	16	4.45	< 10	3	0.24	< 10
1437171	9	< 0.2	< 0.5	110	539	< 1	23	2	65	2.48	< 2	< 10	68	< 0.5	< 2	2.27	24	14	4.26	< 10	< 1	0.23	< 10
1437172	36	< 0.2	< 0.5	79	638	< 1	22	< 2	87	2.63	< 2	< 10	75	< 0.5	< 2	4.30	19	17	3.94	< 10	< 1	0.32	11
1437173	583	4.8	5.2	4960	802	135	16	103	866	1.75	24	< 10	16	< 0.5	< 2	0.64	15	19	5.63	< 10	2	0.40	< 10
1437174	< 5	< 0.2	< 0.5	144	652	< 1	26	3	71	3.55	< 2	< 10	40	0.6	< 2	3.58	25	19	4.09	10	4	0.15	10
1437175	< 5	< 0.2	< 0.5	152	519	1	24	< 2	59	2.14	< 2	< 10	95	< 0.5	< 2	2.13	25	18	4.20	< 10	< 1	0.35	< 10
1437176	< 5	< 0.2	< 0.5	119	422	< 1	23	< 2	58	2.09	< 2	< 10	123	< 0.5	< 2	1.86	24	19	4.30	< 10	< 1	0.46	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1437101	0.50	0.030	0.080	0.10	3	2	32	< 0.01	< 20	< 1	< 2	< 10	86	< 10	12	5
1437102	0.18	0.027	0.034	0.70	12	1	13	0.01	< 20	< 1	< 2	< 10	117	< 10	3	11
1437103	0.11	0.128	0.012	0.02	< 2	1	16	0.02	30	1	< 2	< 10	12	< 10	16	13
1437104	1.74	0.069	0.101	0.01	4	11	92	0.13	< 20	< 1	< 2	< 10	163	< 10	12	3
1437105	1.59	0.031	0.085	< 0.01	2	6	93	0.01	< 20	< 1	< 2	< 10	72	< 10	13	2
1437106	1.78	0.047	0.097	0.01	2	8	77	0.07	< 20	< 1	< 2	< 10	112	< 10	11	3
1437107	1.71	0.049	0.093	0.01	3	7	83	0.08	< 20	< 1	< 2	< 10	107	< 10	12	3
1437108	1.46	0.081	0.094	0.01	< 2	7	208	0.30	< 20	< 1	< 2	< 10	162	< 10	10	4
1437109	1.23	0.073	0.089	0.01	< 2	6	141	0.29	< 20	3	< 2	< 10	159	< 10	8	4
1437110	1.34	0.091	0.098	< 0.01	2	7	131	0.30	< 20	6	< 2	< 10	165	< 10	10	5
1437111	1.41	0.087	0.097	< 0.01	< 2	6	176	0.36	< 20	3	< 2	< 10	165	< 10	11	5
1437112	1.33	0.119	0.097	< 0.01	< 2	5	110	0.39	< 20	3	< 2	< 10	190	< 10	8	4
1437113	0.45	0.057	0.052	4.15	4	2	44	0.04	< 20	< 1	< 2	< 10	32	< 10	4	3
1437114	1.17	0.079	0.091	0.01	3	5	129	0.35	< 20	2	< 2	< 10	158	< 10	9	4
1437115	1.51	0.073	0.088	0.02	< 2	8	122	0.28	< 20	3	< 2	< 10	149	< 10	10	4
1437116	1.79	0.060	0.077	0.01	3	9	170	0.16	< 20	2	< 2	< 10	141	< 10	11	3
1437117	1.71	0.069	0.078	0.01	3	8	148	0.24	< 20	2	< 2	< 10	161	< 10	10	4
1437118	1.56	0.075	0.079	< 0.01	2	9	129	0.22	< 20	< 1	< 2	< 10	171	< 10	11	3
1437119	1.69	0.071	0.077	0.01	3	10	97	0.22	< 20	1	< 2	< 10	165	< 10	11	3
1437120	1.71	0.053	0.071	0.03	< 2	7	101	0.11	< 20	< 1	< 2	< 10	101	< 10	13	3
1437121	0.85	0.060	0.045	< 0.01	< 2	7	70	0.25	< 20	7	< 2	< 10	65	< 10	16	4
1437122	0.96	0.062	0.049	< 0.01	3	9	90	0.20	< 20	5	< 2	< 10	67	< 10	11	3
1437123	0.65	0.098	0.067	3.34	3	3	63	0.04	< 20	1	< 2	< 10	37	< 10	5	3
1437124	1.54	0.080	0.077	0.01	3	10	130	0.23	< 20	2	< 2	< 10	151	< 10	11	4
1437125	1.46	0.077	0.072	< 0.01	2	9	295	0.18	< 20	3	< 2	< 10	130	< 10	11	3
1437126	1.35	0.094	0.068	< 0.01	2	8	138	0.19	< 20	< 1	< 2	< 10	137	< 10	12	3
1437127	1.57	0.042	0.067	< 0.01	2	7	74	0.06	< 20	< 1	< 2	< 10	87	< 10	12	2
1437128	1.39	0.112	0.080	< 0.01	3	6	131	0.34	< 20	6	2	< 10	172	< 10	9	4
1437129	1.30	0.100	0.074	< 0.01	2	6	151	0.28	< 20	6	< 2	< 10	154	< 10	9	4
1437130	1.53	0.058	0.070	0.12	2	7	153	0.04	< 20	< 1	< 2	< 10	102	< 10	13	3
1437131	1.25	0.092	0.073	< 0.01	< 2	7	106	0.28	< 20	3	< 2	< 10	155	< 10	10	4
1437132	1.35	0.086	0.070	0.01	3	8	131	0.19	< 20	4	< 2	< 10	141	< 10	13	3
1437133	0.12	0.145	0.013	0.02	< 2	1	20	0.02	30	< 1	< 2	< 10	12	< 10	17	14
1437134	1.37	0.082	0.071	< 0.01	3	9	147	0.16	< 20	6	< 2	< 10	139	< 10	13	3
1437135	1.31	0.084	0.066	< 0.01	< 2	9	164	0.09	< 20	4	< 2	< 10	112	< 10	12	2
1437136	1.28	0.105	0.080	0.01	3	8	154	0.26	< 20	< 1	< 2	< 10	148	< 10	12	5
1437137	1.28	0.117	0.080	< 0.01	2	6	102	0.34	< 20	4	< 2	< 10	177	< 10	9	5
1437138	1.25	0.121	0.084	< 0.01	< 2	6	95	0.34	< 20	4	< 2	< 10	175	< 10	9	5
1437139	1.31	0.140	0.085	< 0.01	< 2	5	99	0.36	< 20	3	< 2	< 10	189	< 10	8	4
1437140	1.23	0.139	0.083	< 0.01	2	5	121	0.35	< 20	3	< 2	< 10	176	< 10	9	5
1437141	1.29	0.134	0.082	< 0.01	2	5	103	0.38	< 20	8	< 2	< 10	181	< 10	8	4
1437142	1.24	0.120	0.069	< 0.01	3	6	106	0.35	< 20	3	< 2	< 10	153	< 10	9	3
1437143	2.58	0.104	0.097	2.32	7	8	73	0.18	< 20	2	< 2	< 10	101	< 10	8	4
1437144	1.32	0.101	0.072	< 0.01	3	7	99	0.31	< 20	1	< 2	< 10	150	< 10	12	4
1437145	1.64	0.080	0.075	< 0.01	3	9	137	0.20	< 20	< 1	< 2	< 10	138	< 10	12	3
1437146	1.24	0.084	0.070	< 0.01	< 2	8	131	0.23	< 20	4	< 2	< 10	135	< 10	11	3
1437147	1.09	0.096	0.068	< 0.01	< 2	6	154	0.21	< 20	3	< 2	< 10	131	< 10	9	3
1437148	1.17	0.104	0.074	< 0.01	3	6	138	0.27	< 20	< 1	< 2	< 10	149	< 10	8	4

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1437149	1.21	0.142	0.070	< 0.01	3	7	165	0.27	< 20	2	< 2	< 10	151	< 10	9	3
1437150	1.11	0.119	0.067	< 0.01	< 2	5	144	0.26	< 20	7	< 2	< 10	146	< 10	8	3
1437151	1.31	0.115	0.071	< 0.01	< 2	5	149	0.31	< 20	2	< 2	< 10	155	< 10	8	3
1437152	1.16	0.108	0.062	< 0.01	< 2	5	148	0.22	< 20	2	< 2	< 10	127	< 10	7	3
1437153	0.63	0.098	0.067	3.24	4	3	63	0.05	< 20	< 1	< 2	< 10	37	< 10	5	3
1437154	1.37	0.172	0.084	0.01	< 2	5	130	0.33	< 20	4	< 2	< 10	185	< 10	8	4
1437155	1.50	0.119	0.079	0.01	< 2	8	151	0.24	< 20	1	< 2	< 10	157	< 10	10	4
1437156	1.77	0.097	0.076	0.02	3	7	89	0.05	< 20	< 1	< 2	< 10	99	< 10	10	2
1437157	1.87	0.087	0.081	< 0.01	3	9	159	0.08	< 20	1	< 2	< 10	117	< 10	11	3
1437158	1.48	0.133	0.078	0.01	< 2	9	161	0.18	< 20	1	< 2	< 10	146	< 10	11	3
1437159	1.16	0.124	0.071	< 0.01	3	6	145	0.22	< 20	5	< 2	< 10	149	< 10	8	3
1437160	1.30	0.118	0.075	< 0.01	< 2	5	96	0.34	< 20	5	< 2	< 10	159	< 10	8	3
1437161	1.30	0.114	0.076	< 0.01	< 2	6	107	0.32	< 20	2	< 2	< 10	157	< 10	8	3
1437162	1.16	0.132	0.077	< 0.01	< 2	5	195	0.24	< 20	5	< 2	< 10	157	< 10	9	3
1437163	0.10	0.128	0.012	0.01	< 2	< 1	15	0.02	30	3	< 2	< 10	10	< 10	14	12
1437164	1.13	0.141	0.078	< 0.01	2	5	149	0.25	< 20	4	< 2	< 10	164	< 10	8	3
1437165	1.48	0.109	0.080	0.01	3	7	110	0.29	< 20	< 1	< 2	< 10	153	< 10	10	4
1437166	1.48	0.124	0.083	< 0.01	< 2	7	111	0.32	< 20	10	< 2	< 10	167	< 10	9	4
1437167	1.52	0.142	0.080	< 0.01	2	7	140	0.29	< 20	1	< 2	< 10	156	< 10	9	4
1437168	1.54	0.106	0.080	< 0.01	< 2	8	130	0.27	< 20	8	< 2	< 10	152	< 10	10	4
1437169	1.53	0.113	0.077	< 0.01	< 2	9	171	0.16	< 20	< 1	< 2	< 10	137	< 10	11	3
1437170	1.62	0.142	0.083	< 0.01	3	7	198	0.24	< 20	< 1	< 2	< 10	141	< 10	9	4
1437171	1.44	0.136	0.083	< 0.01	4	6	125	0.29	< 20	3	< 2	< 10	167	< 10	8	4
1437172	1.69	0.062	0.081	< 0.01	3	7	146	0.06	< 20	1	< 2	< 10	101	< 10	12	3
1437173	0.42	0.056	0.049	3.85	3	2	43	0.04	< 20	2	< 2	< 10	31	< 10	4	3
1437174	1.67	0.110	0.084	0.01	3	8	271	0.26	< 20	2	< 2	< 10	150	< 10	9	4
1437175	1.35	0.132	0.088	< 0.01	< 2	5	111	0.35	< 20	2	< 2	< 10	174	< 10	7	4
1437176	1.30	0.168	0.089	< 0.01	3	5	131	0.35	< 20	4	< 2	< 10	183	< 10	7	4

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		27.8	2.4	1100	782	14	33	577	651	0.34	342	< 10	91	0.8	1440	0.79	6	6	21.5	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		27.5	2.9	1110	776	14	34	565	648	0.34	352	11	139	0.8	1400	0.80	8	6	21.5	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.2	< 0.5	6020	139	328	38	40	70	2.64	101	< 10	18	1.4	11	0.90	16	48	2.88	< 10	< 1	1.54	45
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.5	0.6	66	1090	2	23	95	129	7.19	225	< 10	723	0.9	< 2	0.15	16	73	5.38	20	< 1	1.06	11
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	0.5	69	1110	3	23	94	130	7.43	224	< 10	760	1.0	< 2	0.16	16	75	5.57	20	< 1	1.12	11
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SAR-M (U.S.G.S.) Meas		3.0	5.2	308	4330	12	39	986	979	1.14	36		160	1.0	< 2	0.33	11	77	2.68	< 10		0.26	48
SAR-M (U.S.G.S.) Cert		3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4
OxD108 Meas	418																						
OxD108 Cert	414																						
OxD108 Meas	390																						
OxD108 Cert	414																						
OxD108 Meas	401																						
OxD108 Cert	414																						
OxD108 Meas	401																						
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OxD108 Meas	401																						
OxD108 Cert	414																						
SF67 Meas	810																						
SF67 Cert	835																						
SF67 Meas	799																						
SF67 Cert	835																						
SF67 Meas	809																						
SF67 Cert	835																						
SF67 Meas	797																						
SF67 Cert	835																						
SF67 Meas	807																						
SF67 Cert	835																						
SF67 Meas	809																						
SF67 Cert	835																						
OREAS 922 (AQUA REGIA) Meas		0.7	0.7	2210	781	< 1	41	56	259	2.86	< 2		81	0.8	5	0.44	22	42	4.99	< 10		0.44	38
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		1.0	< 0.5	2280	799	< 1	39	55	268	2.98	4		85	0.8	5	0.45	23	43	5.14	< 10		0.46	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		3.2	0.7	4140	878	< 1	32	76	330	2.84	4		64	0.7	17	0.42	25	37	5.66	< 10		0.36	35
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Meas		1.4	< 0.5	4350	903	< 1	34	76	331	2.97	8		70	0.7	15	0.45	26	39	5.90	< 10		0.39	37
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
1437106 Orig	< 5																						
1437106 Dup	< 5																						
1437113 Orig		5.1	5.8	5270	842	139	15	106	917	1.79	25	< 10	10	< 0.5	< 2	0.67	16	20	5.95	< 10	1	0.41	< 10
1437113 Dup		5.3	5.7	5410	876	148	16	112	943	1.85	28	< 10	10	< 0.5	4	0.69	16	21	6.23	< 10	2	0.42	< 10
1437127 Orig		< 0.2	< 0.5	77	582	19	19	< 2	74	2.38	< 2	< 10	62	< 0.5	< 2	4.73	20	15	4.03	< 10	< 1	0.37	< 10
1437127 Dup		< 0.2	< 0.5	77	565	18	20	< 2	72	2.29	< 2	< 10	55	< 0.5	< 2	4.56	19	15	3.87	< 10	< 1	0.34	< 10
1437128 Orig	< 5																						
1437128 Dup	< 5																						
1437140 Orig		< 0.2	< 0.5	163	382	3	18	< 2	49	2.23	< 2	< 10	84	< 0.5	< 2	2.17	23	19	4.03	< 10	< 1	0.37	10
1437140 Dup		< 0.2	< 0.5	171	404	2	19	2	51	2.40	2	10	89	< 0.5	< 2	2.30	24	19	4.26	< 10	< 1	0.40	11
1437141 Orig	< 5																						
1437141 Dup	14																						
1437148 Orig	5																						
1437148 Dup	< 5																						
1437150 Orig	6	< 0.2	< 0.5	97	381	< 1	19	2	48	2.66	< 2	< 10	56	< 0.5	< 2	2.67	19	12	3.65	< 10	< 1	0.27	< 10
1437150 Split PREP DUP	< 5	< 0.2	< 0.5	96	380	< 1	19	< 2	48	2.66	< 2	< 10	57	< 0.5	< 2	2.66	20	12	3.63	< 10	< 1	0.27	< 10
1437153 Orig		2.5	3.6	2440	1020	19	23	67	634	2.42	48	< 10	20	< 0.5	< 2	1.03	15	27	5.00	< 10	< 1	0.47	< 10
1437153 Dup		2.4	3.1	2510	1050	20	21	65	659	2.50	49	< 10	20	0.5	< 2	1.07	15	27	5.13	< 10	< 1	0.48	< 10
1437175 Orig	< 5																						
1437175 Dup	< 5																						
1437176 Orig		< 0.2	< 0.5	121	429	< 1	24	< 2	58	2.12	< 2	< 10	125	< 0.5	< 2	1.89	24	19	4.35	< 10	< 1	0.47	10
1437176 Dup		< 0.2	< 0.5	117	414	2	22	< 2	57	2.07	< 2	< 10	120	< 0.5	< 2	1.82	23	19	4.24	< 10	< 1	0.46	< 10
Method Blank	< 5																						
Method Blank	< 5																						
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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.047	0.041	0.18	73	1	157	< 0.01	< 20	8	< 2	32	79	129	23	17
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	0.13	0.052	0.042	0.18	80	1	160	< 0.01	< 20	7	< 2	34	79	134	23	18
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.52	0.125	0.116	1.65	4	7	69	0.14	< 20	5	< 2	< 10	82	14	11	11
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.39	0.079	0.033	0.01	4	23	31		< 20	2	< 2	< 10	186	< 10	6	10
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	0.41	0.084	0.034	0.02	7	24	32		< 20	< 1	< 2	< 10	188	< 10	6	9
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.33	0.035	0.060		6	4	30	0.06	< 20	1	< 2	< 10	37	< 10	20	
SAR-M (U.S.G.S.) Cert	0.50	1.140	0.07		6.0	7.83	151	0.38	17.2	0.96	2.7	3.57	67.2	9.78	28.00	
OxD108 Meas																
OxD108 Cert																
OxD108 Meas																
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SF67 Cert																
OREAS 922 (AQUA REGIA) Meas	1.34	0.028	0.061	0.36	< 2	4	16		< 20		< 2	< 10	38	< 10	21	27
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	1.39	0.031	0.062	0.36	4	4	17		< 20		< 2	< 10	40	< 10	21	28
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.43		0.057	0.63	3	4	14		< 20		< 2	< 10	37	< 10	19	37
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Meas	1.47		0.060	0.65	4	4	15		< 20		< 2	< 10	38	< 10	19	38
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
1437106 Orig																
1437106 Dup																
1437113 Orig	0.44	0.056	0.052	4.08	5	2	44	0.04	< 20	< 1	< 2	< 10	32	< 10	4	3
1437113 Dup	0.46	0.058	0.052	4.23	4	2	44	0.04	< 20	3	< 2	< 10	33	< 10	4	3
1437127 Orig	1.59	0.044	0.068	< 0.01	3	7	76	0.06	< 20	3	< 2	< 10	89	< 10	12	3
1437127 Dup	1.55	0.041	0.065	< 0.01	2	6	73	0.06	< 20	< 1	< 2	< 10	85	< 10	12	2
1437128 Orig																
1437128 Dup																
1437140 Orig	1.20	0.134	0.081	< 0.01	2	5	116	0.34	< 20	4	< 2	< 10	172	< 10	9	4
1437140 Dup	1.26	0.144	0.084	< 0.01	3	5	126	0.36	< 20	2	< 2	< 10	180	< 10	10	5
1437141 Orig																
1437141 Dup																
1437148 Orig																
1437148 Dup																
1437150 Orig	1.11	0.119	0.067	< 0.01	< 2	5	144	0.26	< 20	7	< 2	< 10	146	< 10	8	3
1437150 Split PREP DUP	1.13	0.121	0.067	< 0.01	< 2	5	141	0.26	< 20	2	< 2	< 10	145	< 10	8	3
1437153 Orig	0.63	0.097	0.066	3.21	3	3	62	0.05	< 20	< 1	< 2	< 10	36	< 10	5	3
1437153 Dup	0.64	0.100	0.067	3.28	4	3	64	0.05	< 20	< 1	< 2	< 10	37	< 10	5	3
1437175 Orig																
1437175 Dup																
1437176 Orig	1.31	0.169	0.091	< 0.01	3	5	134	0.36	< 20	4	< 2	< 10	184	< 10	7	4
1437176 Dup	1.29	0.166	0.088	< 0.01	2	5	129	0.35	< 20	4	< 2	< 10	183	< 10	7	4
Method Blank																
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Appendix IV

Summary of Rock Sample Locations and Results

Sample_ID	Assay_Sheet	Sample_Type	UTM_X (NAD 83, Zone 10)	UTM_Y (NAD 83, Zone 10)	Elevation (metres)	Cu_ppm	Cu_%	Au_ppb	Ag_ppm	Fe_%	Mo_ppm	Ni_ppm	Pb_ppm	Zn_ppm	Location	Date Sampled
1448051	A16-04623	Rock	650593	5564164	844	3780		11	0.7	7.08	3	17	4	29	Eric Shaft	23-Apr-16
1448052	A16-04623	Rock	650593	5564164	844	1430		<5	<0.2	9.09	<1	11	<2	16	Eric Shaft	23-Apr-16
1448053	A16-04623	Rock	650593	5564164	844	1310		5	<0.2	10.6	1	9	<2	21	Eric Shaft	23-Apr-16
1448054	A16-04623	Rock	650593	5564164	844	4820		6	<0.2	8.39	11	15	2	19	Eric Shaft	23-Apr-16
1448055	A16-04623	Rock	650593	5564164	844	4510		7	0.2	5.54	3	10	<2	23	Eric Shaft	23-Apr-16
1448056	A16-04623	Rock	650593	5564164	844	13000	1.3	19	0.4	11.2	6	14	<2	40	Eric Shaft	23-Apr-16
1448057	A16-04623	Rock	650593	5564164	844	8340		<5	0.3	9.1	8	8	<2	25	Eric Shaft	23-Apr-16
1448058	A16-04623	Rock	650593	5564164	844	6470		7	0.3	9.67	18	8	<2	20	Eric Shaft	23-Apr-16
1448059	A16-04623	Rock	650593	5564164	844	2690		<5	<0.2	8.45	7	8	3	16	Eric Shaft	23-Apr-16
1448060	A16-04623	Rock	NA	NA	NA	31			<0.2	1.16	4	1	7	40	ROCK BLANK	23-Apr-16
1448061	A16-04623	Rock	642197	5564244	1350	305		<5	<0.2	5.4	<1	12	<2	53	Stumbles FSR	14-May-16
1448062	A16-04623	Rock	641180	5566301	1350	8		<5	<0.2	3.21	2	3	<2	32	Stumbles FSR	14-May-16
1448063	A16-04623	Rock	637384	5568581	837	18		<5	<0.2	4	<1	11	<2	60	Montwest	23-Apr-16
1448064	A16-04623	Rock	637425	5568400	820	31		<5	<0.2	4.18	<1	20	14	47	Montwest	23-Apr-16
1448065	A16-04623	Rock	637384	5568581	837	47		<5	<0.2	3.05	<1	53	<2	53	Montwest	23-Apr-16
1448066	A16-04623	Rock	637226	5568573	768	50		<5	<0.2	3.63	<1	68	2	60	Montwest	23-Apr-16
1448067	A16-04623	Rock	637187	5568465	756	38		<5	<0.2	3.58	<1	71	2	55	Montwest	23-Apr-16
1448068	A16-04623	Rock	641547	5564554	1254	470		<5	<0.2	4.36	<1	16	<2	35	WP Trench 1	15-May-16
1448069	A16-04623	Rock	641547	5564554	1254	300		<5	<0.2	4.84	<1	16	<2	33	WP Trench 1	15-May-16
1448070	A16-04623	Rock	641547	5564554	1254	226		<5	<0.2	4.49	<1	13	<2	25	WP Trench 1	15-May-16
1448071	A16-04623	Rock	641547	5564554	1254	142		<5	<0.2	4.55	<1	17	<2	34	WP Trench 1	15-May-16
1448072	A16-04623	Rock	641547	5564554	1254	774		10	<0.2	3.38	<1	17	<2	19	WP Trench 1	15-May-16
1448073	A16-04623	Rock	641547	5564554	1254	1240		<5	0.2	3.19	<1	14	<2	28	WP Trench 1	15-May-16
1448074	A16-04623	Rock	641547	5564554	1254	2890		<5	0.4	4.25	1	13	<2	33	WP Trench 1	15-May-16
1448075	A16-04623	Rock	641547	5564554	1254	5420		<5	0.9	3.67	2	8	<2	56	WP Trench 1	15-May-16
1448076	A16-04623	Rock	641547	5564554	1254	3680		<5	0.6	3.94	2	11	<2	62	WP Trench 1	15-May-16
1448077	A16-04623	Rock	641547	5564554	1254	5420		<5	1.1	4.4	<1	6	4	57	WP Trench 1	15-May-16
1448078	A16-04623	Rock	641547	5564554	1254	367		<5	<0.2	5.85	<1	4	<2	41	WP Trench 1	15-May-16
1448079	A16-04623	Rock	641547	5564554	1254	71		<5	<0.2	6.66	<1	1	<2	38	WP Trench 1	15-May-16
1448080	A16-04623	Rock	641547	5564554	1254	6		<5	<0.2	1.11	3	<1	8	26	ROCK BLANK	15-May-16
1448081	A16-04623	Rock	641547	5564554	1254	93		<5	<0.2	5.82	<1	1	<2	38	WP Trench 1	15-May-16
1448082	A16-04623	Rock	641547	5564554	1254	165		<5	<0.2	6.08	1	4	<2	37	WP Trench 1	15-May-16
1448083	A16-04623	Rock	641547	5564554	1254	579		<5	<0.2	5.54	<1	4	<2	44	WP Trench 1	15-May-16
1448084	A16-04623	Rock	641670	5564370	1280	2260		<5	<0.2	2.31	4	2	3	18	WP Shaft	21-May-16
1448085	A16-04623	Rock	641670	5564370	1280	7140		6	0.3	4.01	35	3	<2	40	WP Shaft	21-May-16
1448086	A16-04623	Rock	641670	5564370	1280	16800	1.68	<5	0.2	4.08	10	4	<2	48	WP Shaft	21-May-16
1448087	A16-04623	Rock	641670	5564370	1280	2030		<5	<0.2	4.72	<1	2	<2	60	WP Shaft	21-May-16
1448088	A16-04623	Rock	641670	5564370	1280	322		<5	<0.2	6.54	<1	4	<2	48	WP Shaft	21-May-16
1448089	A16-04623	Rock	641670	5564370	1280	1690		<5	<0.2	6.06	<1	3	<2	55	WP Shaft	21-May-16
1448090	A16-04623	Rock	641670	5564370	1280	202		<5	<0.2	6.48	<1	5	<2	48	WP Shaft	21-May-16
1448091	A16-04623	Rock	647024	5565008	1465	1920		<5	<0.2	12.8	109	22	7	25	Titan Queen Trench 1	02-May-16
1448092	A16-04623	Rock	647024	5565008	1465	1800		<5	<0.2	15.8	77	19	7	26	Titan Queen Trench 1	02-May-16
1448093	A16-04623	Rock	647024	5565008	1465	1220		<5	<0.2	18.4	74	30	<2	64	Titan Queen Trench 1	02-May-16
1448094	A16-04623	Rock	647024	5565008	1465	2070		<5	<0.2	13.6	25	37	5	26	Titan Queen Trench 1	02-May-16
1448095	A16-04623	Rock	647024	5565008	1465	3480		<5	0.4	12.9	28	48	4	29	Titan Queen Trench 1	02-May-16
1448096	A16-04623	Rock	647024	5565008	1465	3010		<5	<0.2	10.4	89	24	4	31	Titan Queen Trench 1	02-May-16
1448097	A16-04623	Rock	647024	5565008	1465	5060		<5	0.3	11.1	57	24	<2	31	Titan Queen Trench 1	02-May-16
1448098	A16-04623	Rock	647024	5565008	1465	3950		9	2	11.1	21	70	<2	32	Titan Queen Trench 1	02-May-16

Sample_ID	Assay_Sheet	Sample_Type	UTM_X (NAD 83, Zone 10)	UTM_Y (NAD 83, Zone 10)	Elevation (metres)	Cu_ppm	Cu_%	Au_ppb	Ag_ppm	Fe_%	Mo_ppm	Ni_ppm	Pb_ppm	Zn_ppm	Location	Date Sampled
1448099	A16-04623	Rock	647024	5565008	1465	4450		<5	0.8	11.9	21	57	<2	34	Titan Queen Trench 1	02-May-16
1448100	A16-04623	Rock	NA	NA	NA	15		<5	<0.2	1.15	4	<1	9	22	ROCK BLANK	02-May-16
1448101	A16-04623	Rock	647032	5565040	1471	5330		<5	<0.2	14.5	131	18	<2	35	Titan Queen Trench 2	15-May-16
1448102	A16-04623	Rock	647032	5565040	1471	5520		<5	0.2	14	110	10	3	13	Titan Queen Trench 2	15-May-16
1448103	A16-04623	Rock	647032	5565040	1471	5500		<5	<0.2	8.69	65	11	<2	19	Titan Queen Trench 2	15-May-16
1448104	A16-04623	Rock	647032	5565040	1471	4620		<5	0.2	10.6	103	12	<2	36	Titan Queen Trench 2	15-May-16
1448105	A16-04623	Rock	647032	5565040	1471	9630		<5	<0.2	9.51	58	16	<2	58	Titan Queen Trench 2	15-May-16
1448106	A16-04623	Rock	647032	5565040	1471	3530		<5	0.2	7.17	59	11	<2	37	Titan Queen Trench 2	15-May-16
1448107	A16-04623	Rock	647032	5565040	1471	3820		<5	0.4	10.4	22	28	<2	62	Titan Queen Trench 2	15-May-16
1448108	A16-04623	Rock	647032	5565040	1471	5160		<5	0.3	19.4	102	19	3	9	Titan Queen Trench 2	15-May-16
1448109	A16-04623	Rock	647032	5565040	1471	7410		<5	0.3	19	64	24	<2	70	Titan Queen Trench 2	15-May-16
1448110	A16-04623	Rock	647041	5565057	1471	6790		22	3.2	4.41	12	18	2	60	Titan Queen Trench 3	15-May-16
1448111	A16-04623	Rock	647041	5565057	1471	6940		7	3.2	5.13	136	15	3	57	Titan Queen Trench 3	15-May-16
1448112	A16-04623	Rock	647041	5565057	1471	7380		6	4	6.26	233	12	5	16	Titan Queen Trench 3	15-May-16
1448113	A16-04623	Rock	647041	5565057	1471	2860		16	1.1	7.57	12	24	4	81	Titan Queen Trench 3	15-May-16
1448114	A16-05219	Rock	645000	5565165	1437	144			0.4	8.6	<1	8	12	58	Marb Trench 1	04-Jun-16
1448115	A16-05220	Rock	645000	5565165	1437	69			<0.2	10.4	<1	8	4	49	Marb Trench 1	04-Jun-16
1448116	A16-05221	Rock	645000	5565165	1437	6			<0.2	6.62	2	4	<2	41	Marb Trench 1	04-Jun-16
1448117	A16-05222	Rock	645000	5565165	1437	56			<0.2	6.83	<1	6	<2	45	Marb Trench 1	04-Jun-16
1448118	A16-05223	Rock	645000	5565165	1437	53			<0.2	8.98	<1	9	<2	49	Marb Trench 1	04-Jun-16
1448119	A16-05224	Rock	645000	5565165	1437	167			<0.2	8.39	<1	8	<2	46	Marb Trench 1	04-Jun-16
1448120	A16-05225	Rock	645000	5565165	1437	581			<0.2	9.3	<1	10	<2	74	Marb Trench 1	04-Jun-16
1448121	A16-05226	Rock	645000	5565165	1437	858			<0.2	8.44	1	22	<2	36	Marb Trench 1	04-Jun-16
1448122	A16-05227	Rock	645000	5565165	1437	574			<0.2	6.67	<1	19	<2	36	Marb Trench 1	04-Jun-16
1448123	A16-05228	Rock	645000	5565165	1437	5			<0.2	0.81	1	<1	<2	7	Marb Trench 1	04-Jun-16

Appendix V

2016 Rock Sample Descriptions

Sample_ID	Sample Type	Location	Metreage	Lithology	Alteration	Mineralization	Structure (strike/dip right hand rule)	Comments
1448051	Chip Channel	Eric Shaft	0-1m	Quartz diorite	Epidote + chlorite	3% malachite; 2% specularite; 5% magnetite	270/-63; 120/-25	At mouth of shaft/pit
1448052	Chip Channel	Eric Shaft	1-2m	Quartz diorite	Epidote + chlorite	1% malachite; 2% specularite; 3% magnetite	120/-70; 025/-30	Downslope of 130515-THU-001
1448053	Chip Channel	Eric Shaft	2-3m	Quartz diorite	Epidote + chlorite	1% malachite; 5% specualrite; 3% magnetite	180/-60; 100/-40	West wall sample
1448054	Chip Channel	Eric Shaft	3-4m	Diorite Breccia	Kspar	5% malachite; 5% specularite;	115/-30; 125/-25	West wall sample
1448055	Chip Channel	Eric Shaft	4-5m	Diorite Breccia/Greywacke?	Hornfels +/- garnets?	5% malachiite, 5% specularite, 1% magnetite	180/-50; 300/-90	North-south fault zone exposed
1448056	Chip Channel	Eric Shaft	5-6m	Greywacke?	Hornfels +/- garnets?	3% malachite; 3% specularite; trace chalcopyrite, 2% magnetite	250/-40; 310/-70; 205/-70	North wall sample
1448057	Chip Channel	Eric Shaft	6-7m	Diorite Breccia	Epidote	5% malachite; trace chalcopyrite; 5% magnetite; 3% specularite	310/-80	East wall sample
1448058	Chip Channel	Eric Shaft	7-8m	Diorite Breccia	Epidote +/- Kspar	3% malachite; 2% magnetite; 5% specularite	320/-90	East wall sample
1448059	Chip Channel	Eric Shaft	8-9m	Diorite	Epidote +/- Kspar	Trace malahite; 7% magnetite	130/-80	Shaft/pit entrance (2.1 metres deep)
1448061	Grab	Reconnaissance		Quartz diorite	Kspar	Trace pyrite +/- chalcopyrite		Roadcut sample
1448062	Grab	Reconnaissance		Quartz diorite	Kspar	Trace pyrite +/- chalcopyrite		Roadcut sample
1448063	Grab	Montwest		Andesitic Basalt	Calcite infilled amygdules	No visible mineralization		Western extension of Thule Property; colour anomlay
1448064	Grab	Montwest		Andesitic Basalt	Calcite infilled amygdules	No visible mineralization		Western extension of Thule Property; colour anomlay
1448065	Grab	Montwest		Andesitic Basalt	Calcite infilled amygdules	No visible mineralization		Western extension of Thule Property; colour anomlay
1448066	Grab	Montwest		Andesitic Basalt	Calcite infilled amygdules	No visible mineralization		Western extension of Thule Property; colour anomlay
1448067	Grab	Montwest		Andesitic Basalt	Calcite infilled amygdules	No visible mineralization		Western extension of Thule Property; colour anomlay
1448068	Chip Channel	WP Trench 1	0-2m	Quartz diorite	Epidote + silicification	1% magnetite, trace chalcopyrite	340/-70; 090/-90, 360/-65	Pocket of diorite
1448069	Chip Channel	WP Trench 1	2-4m	Diorite Breccia	Silicifiaction +/- Chlorite/biotite hornfels	1% magnetite	340/-90 (fault); 340/-48 (bedding)	

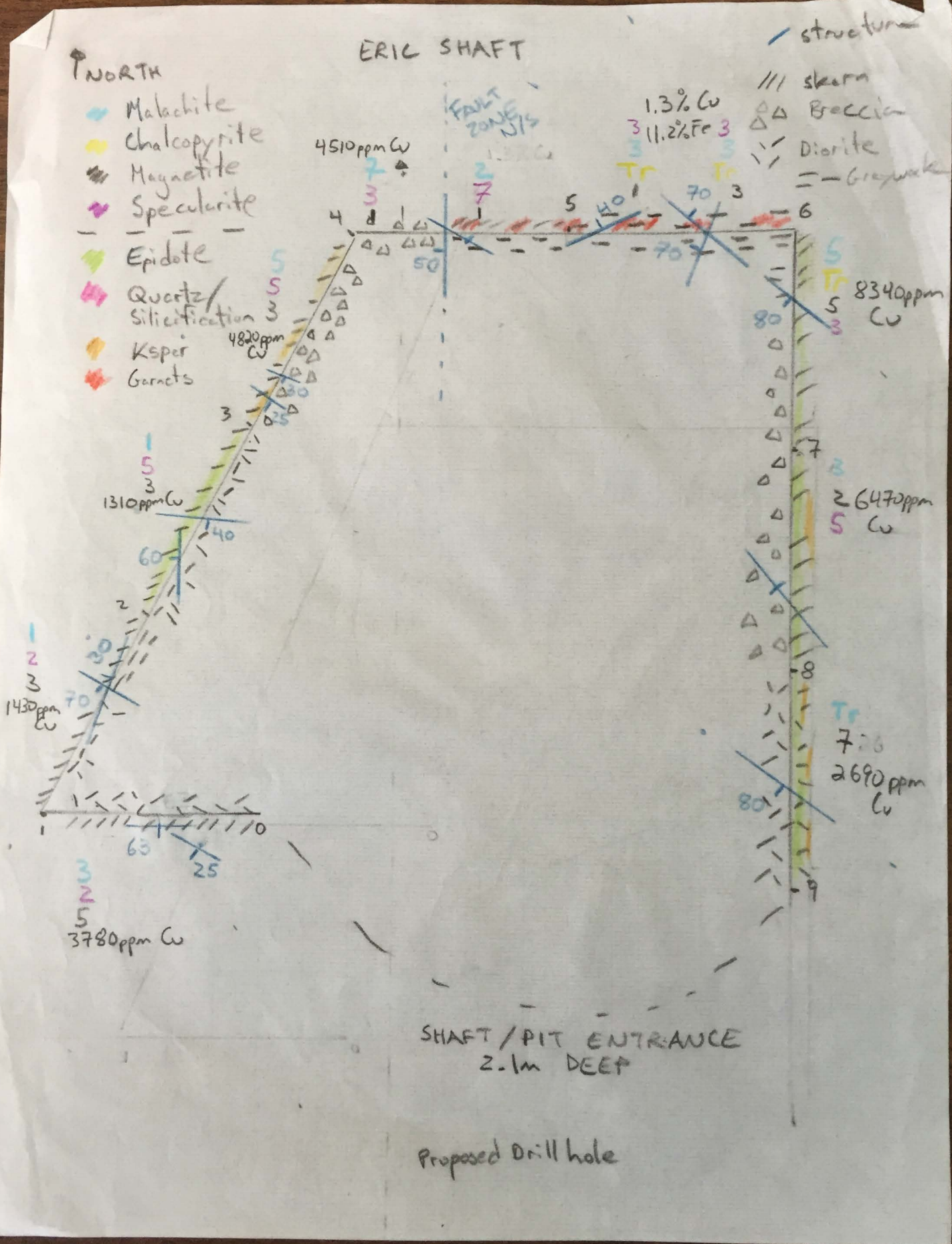
Sample_ID	Sample Type	Location	Metreage	Lithology	Alteration	Mineralization	Structure (strike/dip right hand rule)	Comments
1448070	Chip Channel	WP Trench 1	4-6m	Andesite	Epidote + silicification	No visible mineralization	340/-90; 090/-90 (fault)	
1448071	Chip Channel	WP Trench 1	6-8m	Andesite	Silcification + chlorite/biotite hornfels	Trace magnetite	055/-65; 175/-70; 090/-80 (faults)	
1448072	Chip Channel	WP Trench 1	8-10m	Andesite	Epidote + silicification	1% magnetite, trace malachite	045/-30; 170/-65 (faults)	
1448073	Chip Channel	WP Trench 1	10-12m	Quartz diorite	Epidote + silicification	Trace malachite	045/-30; 170/-70 (calcite veinlets/faults)	
1448074	Chip Channel	WP Trench 1	12-14m	Andesite/Quartz diorite	Silicification	10% malachite	210/-50 (contact); 355/-90	Contact between andesite and diorite at 13 metres
1448075	Chip Channel	WP Trench 1	14-16m	Quartz diorite	Epidote + silicification	5-10% malachite; 1% magnetite	355/-90	
1448076	Chip Channel	WP Trench 1	16-18m	Quartz diorite	Silcification	5-10% malachite; trace chalcopyrite	355/-70 (bedding?); 090/-90	
1448077	Chip Channel	WP Trench 1	18-20m	Quartz diorite	Silcification + epidote	5-10% malachite; trace chalcopyrite	090/-90 (fault)	
1448078	Chip Channel	WP Trench 1	20-22m	Quartz diorite	Silicification + epidote + chlorite/biotite hornfels	2% magnetite; trace malachite	090/-90; 210/-90 (contact?); 090/-90 (calcite vein)	Contact between diorite and andesite at 21 metres (not easily measurable)
1448079	Chip Channel	WP Trench 1	22-24m	Quartz diorite	Chlorite/biotite hornfels	3% magnetite, 1% pyrite	345/-70 (bedding); 360/-90	From WP shaft
1448081	Chip Channel	WP Trench 1	24-26m	Quartz diorite	Chlorite/biotite hornfels	3% magnetite, 1% pyrite	345/-60 (bedding)	
1448082	Chip Channel	WP Trench 1	26-28m	Quartz diorite	Chlorite/biotite hornfels	5% magnetite; 2% pyrite	345/-60 (bedding); 090/-90	
1448083	Chip Channel	WP Trench 1	28-30m	Quartz diorite	Chlorite/biotite hornfels	5% magnetite; 1% pyrite	345/-60 (fault); 360/-60; 090/-90	
1448084	Chip Channel	WP Shaft	0-1m	Andesite	Epidote + silicification +/- biotite/chlorite	5% malachite, trace chalcopyrite, trace sphalerite?	360/-90	Main shaft/pit area
1448085	Chip Channel	WP Shaft	1-2m	Andesite/Diorite breccia	Epidote + silicification +/- biotite/chlorite	2% malachite, 1% chalcopyrite, trace sphalerite?	345/-90 (bedding); 360/-90	Main shaft/pit area
1448086	Chip Channel	WP Shaft	2-3m	Andesite/Diorite	Epidote + chlorite	5% malachite, 2% chalcopyrite, trace sphalerite?	345/-90 (bedding); 360/-90	
1448087	Chip Channel	WP Shaft	3-4m	Diorite/Andesite	Silicification	Limonite staining along fractures	360/-90; 090/-90	Limit of diorite
1448088	Chip Channel	WP Shaft	4-5m	Andesite	Silicification +/- chlorite/biotite hornfels	Malachite on fracture planes + chalcopyrite replacement	360/-90	Hornfelsed volcanics
1448089	Chip Channel	WP Shaft	5-6m	Andesite	Chlorite +/- biotite hornfels	Fine disseminated pyrite	360/-90	Hornfelsed volcanics

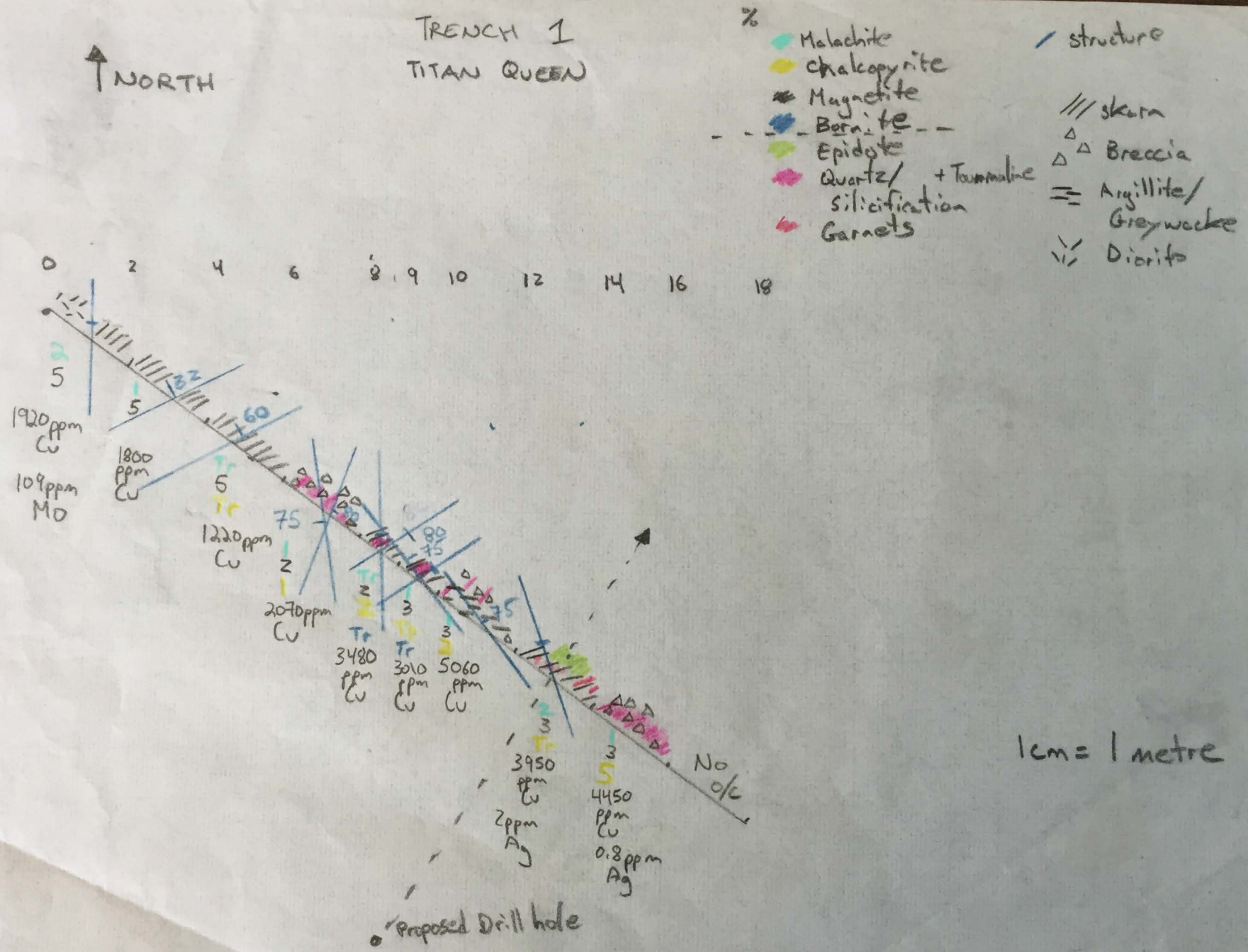
Sample_ID	Sample Type	Location	Metreage	Lithology	Alteration	Mineralization	Structure (strike/dip right hand rule)	Comments
1448090	Chip Channel	WP Shaft	6-7m	Andesite	Chlorite +/- biotite hornfels	Limonite after pyrite?	330/-90	Hornfelsed volcanics
1448091	Chip Channel	Titan Queen Trench 1	0-2m	Quartz diorite	Chlorite	2% malachite; 5% magnetite	360-90	Start of trench
1448092	Chip Channel	Titan Queen Trench 1	2-4m	Quartz diorite	Chlorite +/- biotite hornfels	1% malachite; 5% magnetite	240/-32	Sampled both sides of trench
1448093	Chip Channel	Titan Queen Trench 1	4-6m	Diorite Breccia	Quartz breccia fragments	Trace malachite; 5% magnetite; trace chalcopyrite	240/-60	Sampled both sides of trench
1448094	Chip Channel	Titan Queen Trench 1	6-8m	Diorite Breccia	Quartz + tourmaline silicification	1% malachite; 2% magnetite; 1% chalcopyrite	020/80; 170/-75	
1448095	Chip Channel	Titan Queen Trench 1	8-9m	Diorite Breccia	Quartz + tourmaline silicification	Trace malachite; 2% magnetite; 1% chalcopyrite	055/-70; 350/-90	
1448096	Chip Channel	Titan Queen Trench 1	9-10m	Diorite Breccia	Quartz + tourmaline silicification	1% malachite; 3% magnetite; trace chalcopyrite; trace bornite	320/-75; 055/-90	
1448097	Chip Channel	Titan Queen Trench 1	10-12m	Diorite Breccia	Quartz + tourmaline silicification	1% malachite; 3% magnetite; 2% chalcopyrite	320/-75	
1448098	Chip Channel	Titan Queen Trench 1	12-14m	Quartz diorite	Silcificiation + epidote	2% malachite; 3% magnetite; trace chalcopyrite	340/-90	Strongly fractured - chaotic
1448099	Chip Channel	Titan Queen Trench 1	14-16m	Quartz diorite	Silificiation	1% malachite; 3% magnetite; 5% chalcopyrite	No major structures	
1448101	Chip Channel	Titan Queen Trench 2	1-2m (overburden from 0-1m)	Diorite Breccia	Quartz + tourmaline silicification	2% malachite; 1% chalcopyrite; 5% magnetite	195/-80	
1448102	Chip Channel	Titan Queen Trench 2	2-3m	Diorite Breccia	Quartz + tourmaline silicification	2% malachite; 1% chalcopyrite; 5% magnetite	135/-90	
1448103	Chip Channel	Titan Queen Trench 2	3-4m	Diorite Breccia	Quartz + tourmaline silicification; kspar	1% malachite; 2% chalcopyrite; 2% magnetite	130/-70; 170/-70	
1448104	Chip Channel	Titan Queen Trench 2	4-5m	Diorite Breccia	Quartz + tourmaline silicification; kspar	2% malachite; 2% chalcopyrite; 3% magnetite	215/-70; 025/-70	
1448105	Chip Channel	Titan Queen Trench 2	5-6m	Quartz diorite	Quartz + tourmaline silicification	3% malachite; 1% chalcopyrite; 3% magnetite; trace bornite	360/-50 (vein)	
1448106	Chip Channel	Titan Queen Trench 2	6-7m	Quartz diorite	Quartz + tourmaline silicification	1% malachite; 1% chalcopyrite; 1% magnetite	360/-90	
1448107	Chip Channel	Titan Queen Trench 2	7-8m	Quartz diorite	Quartz + tourmaline silicification	2% malachite; 1% chalcopyrite; 3% magnetite	025/-60	
1448108	Chip Channel	Titan Queen Trench 2	8-9m	Quartz diorite	Quartz + tourmaline silicification	2% malachite; 3% chalcopyrite; 2% magnetite	015/-60; 030/-90	

Sample_ID	Sample Type	Location	Metreage	Lithology	Alteration	Mineralization	Structure (strike/dip right hand rule)	Comments
1448109	Chip Channel	Titan Queen Trench 2	9-10m (overburden 11-12m)	Quartz diorite	Quartz + tourmaline silicification	2% malachite; 2% chalcopyrite; 3% magnetite	360/-90; 350/-90	
1448110	Chip Channel	Titan Queen Trench 3	6-8m (no outcrop 0-6m)	Quartz diorite	Quartz + tourmaline silicification	5% malachite		Gougy shear zone (6-10 metres)
1448111	Chip Channel	Titan Queen Trench 3	8-10m	Quartz diorite	Quartz + tourmaline silicification	3% bornite (possibly irridescent chalcopyrite)	340/90	Gougy shear zone (6-10 metres)
1448112	Chip Channel	Titan Queen Trench 3	10-11m	Diorite Breccia	Quartz + tourmaline silicification	2% malachite, 3% magnetite	345/90	
1448113	Chip Channel	Titan Queen Trench 3	11-12m (no outcrop 12-14m)	Quartz diorite	Quartz + tourmaline silicification	2% malachite, 3% magnetite	345/90	
1448114	Chip Channel	MARB Trench 1	0-2m	Greywacke	Silicification	5% magnetite	270/-90;300/-70	
1448115	Chip Channel	MARB Trench 1	2-4m	Greywacke	Silicification; epidote	5% magnetite	270/-90; 020/-25	
1448116	Chip Channel	MARB Trench 1	4-6m	Greywacke	Silicification; epidote	5% magntite; 1% pyrite	335/-75; 270/-90; 170/-90	
1448117	Chip Channel	MARB Trench 1	6-8m	Diorite Breccia	Silicification; epidote	2% magnetite; 0.5% pyrite	270/-90' 340/-70	
1448118	Chip Channel	MARB Trench 1	8-10m	Diorite Breccia	Silicification	5% magnetite	020/-90; 270/-90	
1448119	Chip Channel	MARB Trench 1	10-12m	Diorite	Silicification	5% magnetite; trace pyrite; trace chalcopyrite	270/-90; 300/-90	
1448120	Chip Channel	MARB Trench 1	12-14m	Diorite Breccia	Silicification	5% magnetite; 0.5% pyrite	270/-20; 335/-90; 270/-90	
1448121	Chip Channel	MARB Trench 1	14-16m	Diorite Breccia	Silicification; epidote	5% magnetite; 2% chalcopyrite; 1% malachite	340/-70; 270/-90	
1448122	Chip Channel	MARB Trench 1	16-18m	Diorite Breccia	Silicification; epidote	5% magnetite; 2% pyrite; trace chalcopyrite	270/-90; 315/-60	
1448123	Chip Channel	MARB Trench 1	Quartz Vein Grab	Quartz diorite	Quartz	unmineralized		Barren quartz vein; confirmation testing

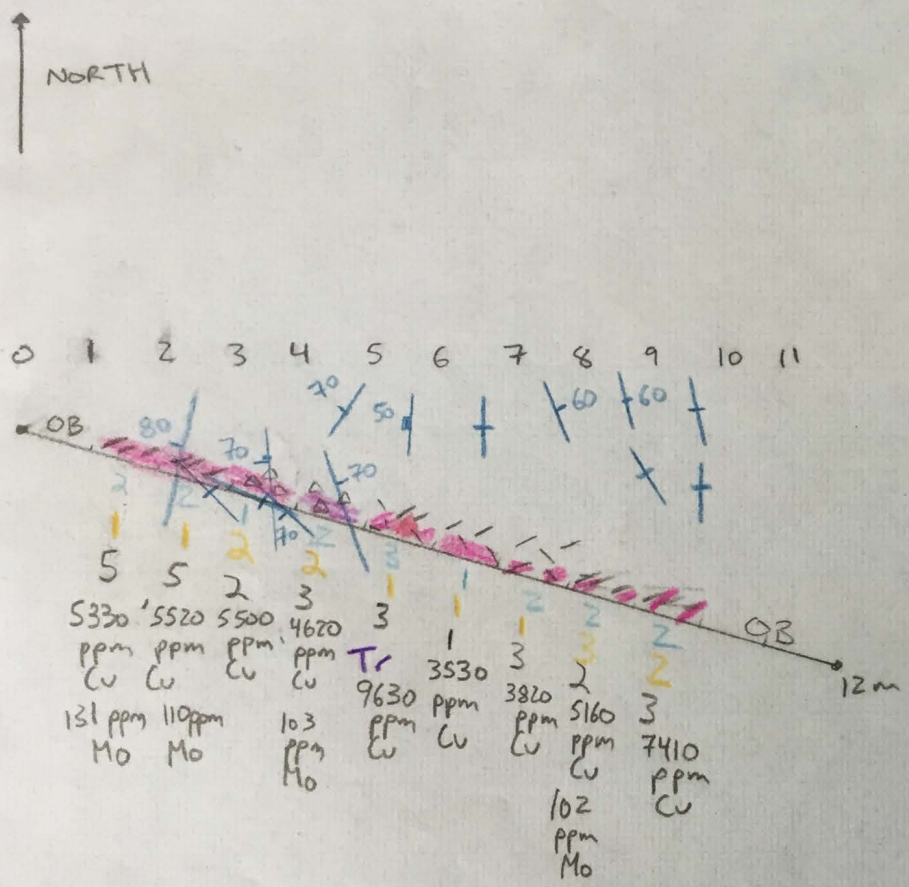
Appendix VI

Sketch Plan Maps of Trench and Shaft Sampling


ERIC SHAFT
NORTH
Malachite
Chalcopyrite
Magnetite
Specularite
Epidote
Quartz/ Silicification
Ksper
Garnets
structure
skarn
Breccia
Diorite
Greywacke
FAULT ZONE N/S
1.3% Cu
11.2% Fe
4510ppm Cu
4820ppm Cu
1310ppm Cu
1430ppm Cu
3780ppm Cu
8340ppm Cu
26470ppm Cu
2690ppm Cu
SHAFT / PIT ENTRANCE
2.1m DEEP
Proposed Drill hole


TRENCH 1
TITAN QUEEN
NORTH
%
Malachite
chalcopyrite
Magnetite
Bornite
Epidote
Quartz/ Silicification + Tourmaline
Garnets
structure
skarn
Breccia
Argillite/ Greywacke
Diorite
0
2
4
6
8
9
10
12
14
16
18
5
1920 ppm Cu
109 ppm Mo
5
1800 ppm Cu
82
60
Tr
5
Tr
1220 ppm Cu
75
2
2070 ppm Cu
Tr
2
Tr
3480 ppm Cu
3
Tr
3010 ppm Cu
3
5060 ppm Cu
80
75
75
3
Tr
3950 ppm Cu
2 ppm Ag
3
5
4450 ppm Cu
0.8 ppm Ag
No O/C
Proposed Drill hole
1cm = 1 metre

TRENCH 2
TITAN QUEEN



%

- Malachite
- Chalcopyrite
- Magnetite
- Bornite
- Epidote
- Quartz+Tourmaline Silicification
- Garnets
- Kspar

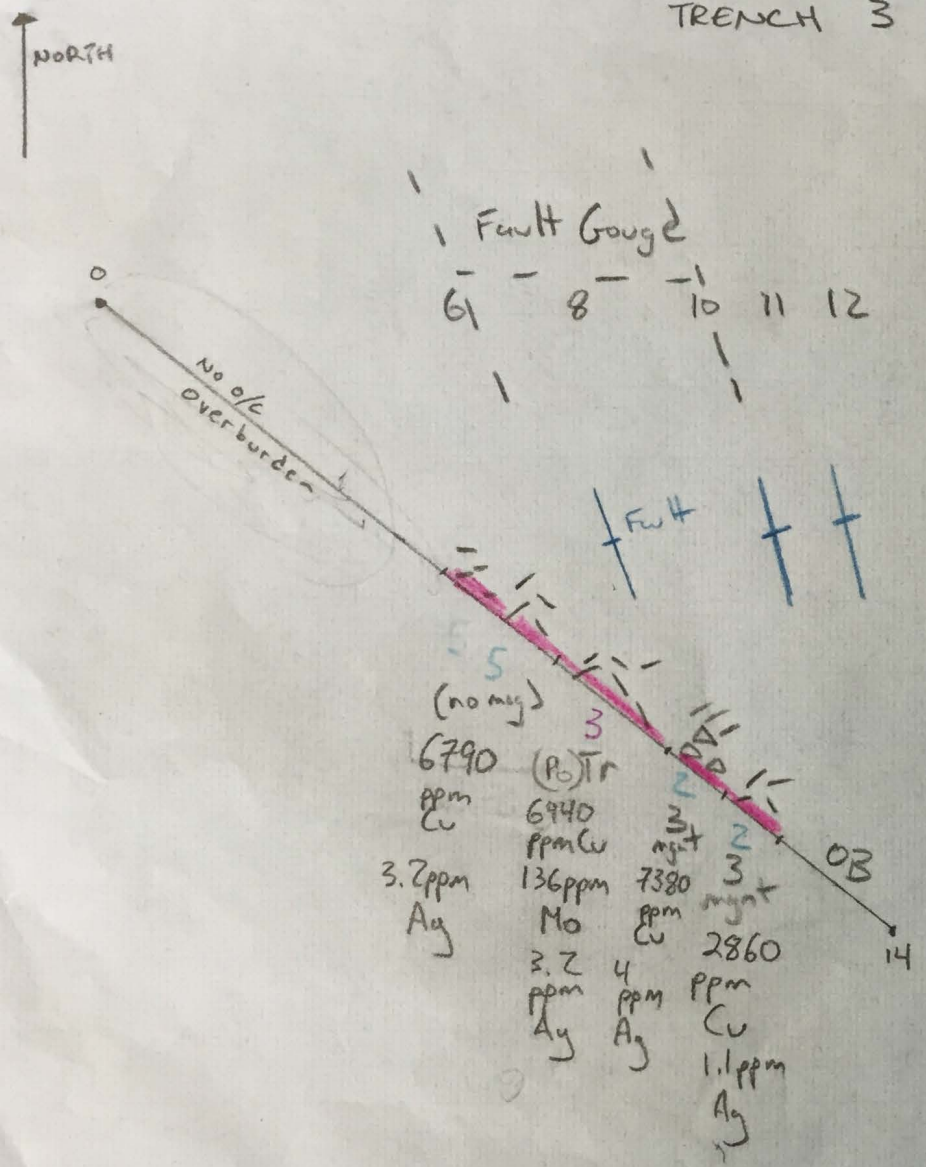
/ structure

- /// Skarn
- Breccia
- Argillite/Greywacke
- Diorite

1cm = 1 metre

TITAN QUEEN

TRENCH 3

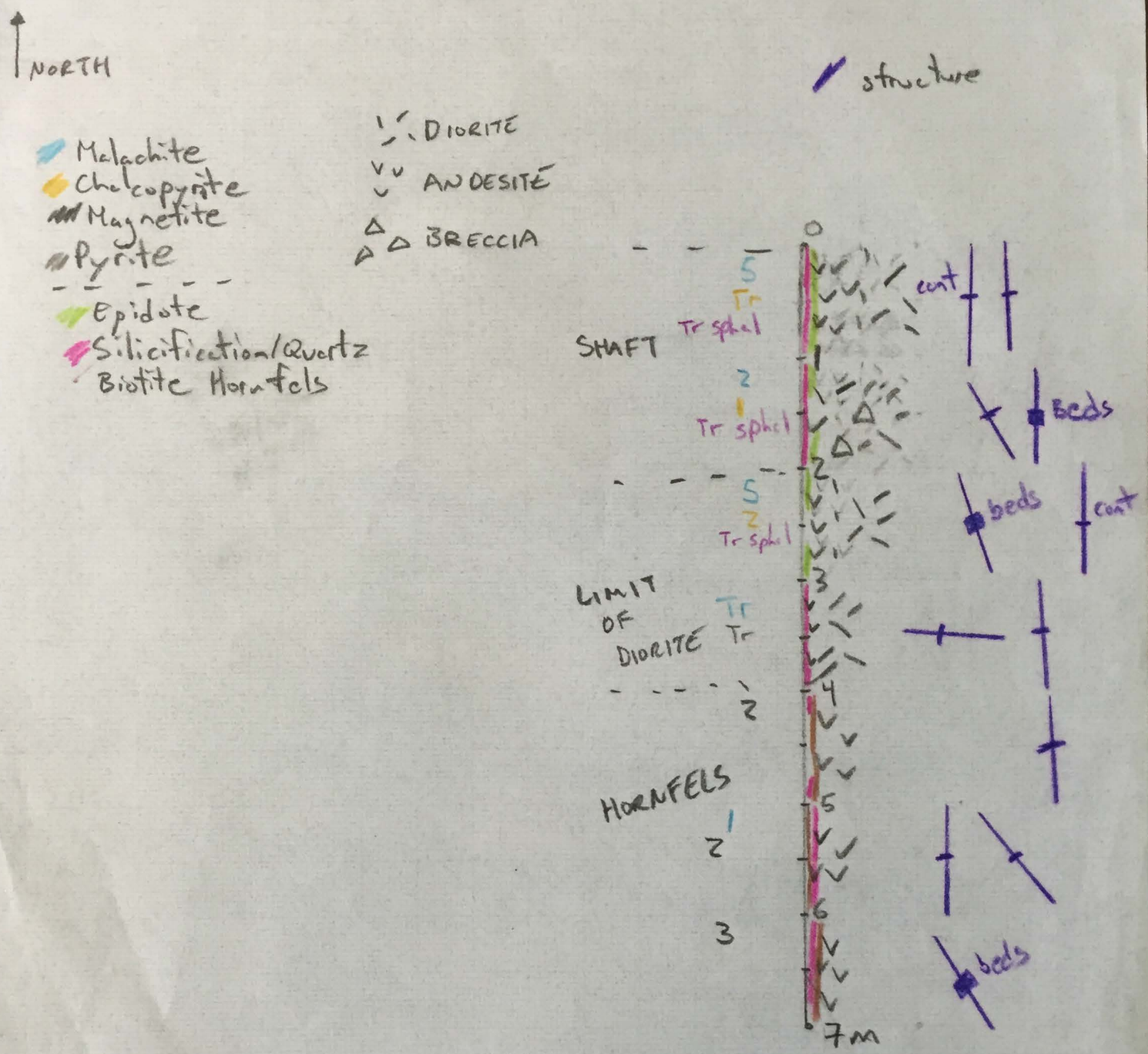


- Pyrrhotite
- Specularite
- % Malachite
- Chalcopyrite
- Magnetite
- Bornite
- epidote
- Quartz + Tourmaline silicification
- Garnets

- structure
- Skarn
- breccia
- Argillite / Greywacke
- Diorite

~340-345 degree fault zone

WP Shaft


NORTH
structure
Malachite
Chalcopyrite
Magnetite
Pyrite
Epidote
Silicification/Quartz
Biotite Hornfels
DIORITE
ANDESITE
BRECCIA
SHAFT
5
Tr
Tr sphal
2
Tr sphal
5
2
Tr sphal
LIMIT OF DIORITE
Tr
Tr
2
HORNFELS
2
3
0
1
2
3
4
5
6
7m
cont
Beds
beds
cont
beds

WP Trench 1

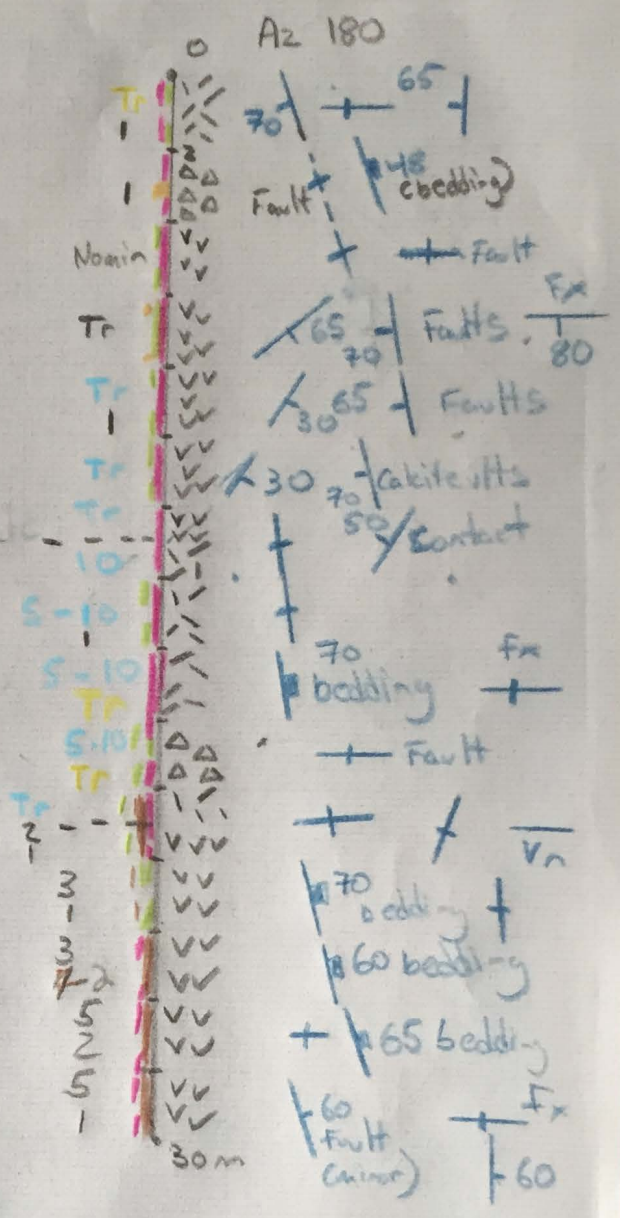
NORTH

%

- Malachite
- Chalcopyrite
- Magnetite
- Pyrite
- Epidote
- Quartz/Silicification
- Biotite Hornfels

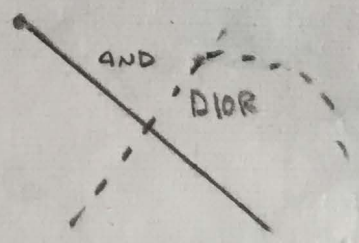
- Diorite
- Andesite
- Breccia

Drill Direction



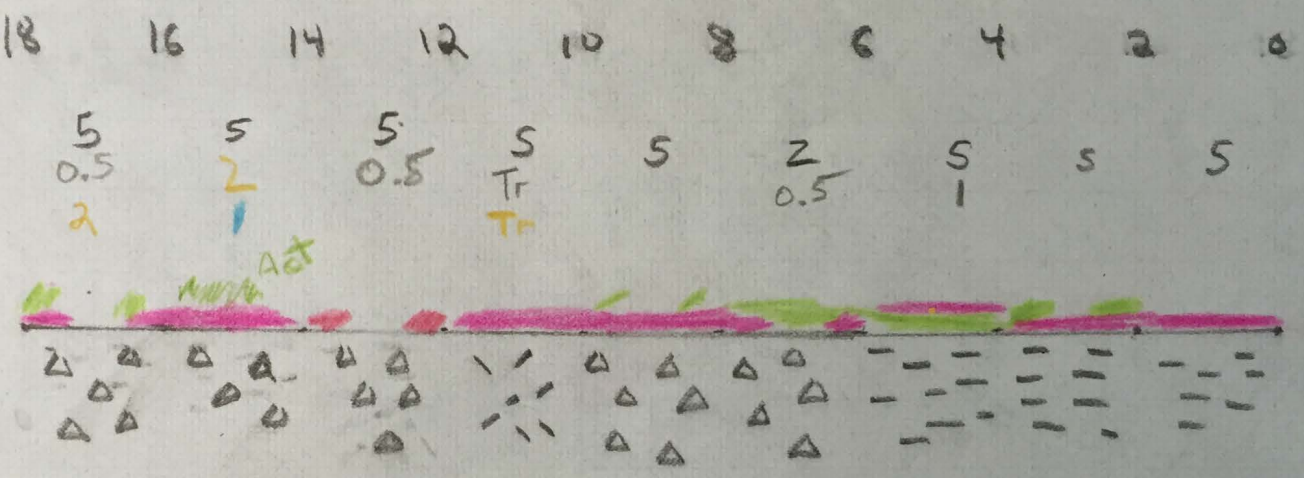
1 cm = 2 metres

Proposed Drill WP



↑ NORTH

MARB TRENCH 1



270/90 340/70 270/20 270/90 20/90 270/90 335/75 270/90 270/90
315/60 270/90 335/90 270/90 300/90 270/90 340/70 270/90 170/90 020/25 300/70

Appendix VII

Diamond Drill Logs

Drill Hole **DDH-THU-001**

Nicola Mining Inc.

Date: 7/1/2016

Easting	650546.262	Bearing	25
Northing	5564066.704	Inclination	-45
Elevation	836	Depth	80.47

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
0	7.5				
7.5	8.7			PO	
8.7	13.4			M	PO
13.4	15.1			AO	
15.1	21.56			M	PO
21.56	56.77			MS	
56.77	80.47			M	PO

Alteration

From	To	Alt1	Alt2
7.5	9.5		
9.5	13.41		
13.41	15.1		
15.1	16.8		
16.8	19.2		
19.2	22.56		
22.56	23.5		
23.5	27.5		
27.5	29.5		
29.5	31		
31	32		
32	34		
34	36		
36	37.33		
37.33	39.39		
39.39	40.33		
40.33	41.7		
41.7	43.7		
43.7	45.7		
45.7	48		
48	50		
50	52		
52	54		
54	55.2		
55.2	56.77		
56.77	59		
59	61.3		
61.3	63		
63	65		
65	67		
67	69		
69	71		
71	73		
73	75.2		
75.2	77.6		
77.6	79		
79	80.47		

Mineralisation

From	To	CP	SC	MT	PY	BO
7.5	9.5			7	7	
9.5	13.41			5	2	
13.41	15.1					
15.1	16.8				5	
16.8	19.2	0.1		5	0.5	
19.2	22.56			5	0.5	
22.56	23.5				0.1	
23.5	27.5		2			
27.5	29.5			0.5		
29.5	31					
31	32		5			
32	34		20			
34	36		2	0.5	1	
36	37.33	0.1		5	1	
37.33	39.39		15		5	
39.39	40.33				15	
40.33	41.7	0.1	15		0.1	0.1
41.7	43.7		5		0.1	
43.7	45.7	1	15		0.1	0.1
45.7	48		1		15	
48	50		1		20	
50	52		1		20	
52	54		1		15	
54	55.2		1		15	
55.2	56.77				15	
56.77	59			5	0.5	
59	61.3			5	0.5	
61.3	63	0.1		5	1	
63	65	0.1		5	5	
65	67	0.1		1		
67	69	0.5		5	0.1	
69	71	0.5		5		
71	73	0.1		5	0.1	
73	75.2	0.1		5		
75.2	77.6	0.5		5		
77.6	79	1		5	1	
79	80.47	0.1		5		

Faults

From_m	To_m	Type	Alpha
0	23.3	FR	20

Assays

Cu_%	Fe_%	Au_ppb
329	7.05	5
126	6.6	5
223	6.66	5
257	3.7	5
251	4.05	5
54	7.21	5
52	7.65	5
315	2.8	5
119	2.44	5
145	3.17	5
214	2.07	5
214	2.49	5
708	4.57	5
218	3.38	5
183	4.3	5
65	3.69	5
248	4.01	5
301	3.13	5
402	3.65	5
3190	2.29	28
301	3.4	5
120	3.37	5
92	3.34	5
172	2.99	5
511	2.95	5
439	3.55	5
76	5.38	5
78	4.58	5
56	5.25	5
562	3.91	5
115	3.9	5
291	5.1	5
58	5.58	5
100	5.7	5
66	5.65	5
70	6.36	5
2390	5.52	5
176	6.27	5

Drill Hole **DDH-THU-001A**

Nicola Mining Inc.

Date: 7/3/2016

Easting	650544	Bearing	25
Northing	5564063	Inclination	-45
Elevation	836	Depth	235

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
0	8.5				
8.5	9.15			PO	
9.15	13.49			M	
13.49	13.59			EQ	
13.59	13.79			PO	
13.79	14.65			M	
14.65	15.5			MS	
15.5	15.7			PO	
15.7	21			M	
21	53.5			MS	
53.5	182			M	

Alteration

From	To	Alt1	Alt2
8.5	10.9		
10.9	12.45		
12.45	13.48		
13.48	15.5		
15.5	18		
18	20.5		
20.5	22.5		
22.5	24.5		
24.5	26.5		
26.5	27.88		
27.88	30		
30	32		
32	34		
34	36		
36	38		
38	39.55		
39.55	41		
41	43		
43	44.9		
44.9	47.3		
47.3	49.45		
49.45	52.75		
52.75	53.88		
53.88	56.4		
56.4	57.5		
57.5	59.5		
59.5	60.85		
60.85	63		
63	64.9		
64.9	67.22		
67.22	69.83		
69.83	70.4		
70.4	72.47		
72.47	74.72		
74.72	75.65		
75.65	78		
78	80		
80	82		
82	84		
84	86		
86	88		
88	90		
90	92		
92	93.75		
93.75	94.35		
94.35	97		
97	98.6		
98.6	100.55		
100.55	103		
103	104.87		

Mineralisation

From	To	CP	SC	MT	PY	BO
8.5	10.9	0.1		7	0.5	
10.9	12.45			5	0.1	
12.45	13.48	0.1		5	0.1	
13.48	15.5		0.1	5	0.1	
15.5	18			5	0.1	
18	20.5	0.1		5	0.1	
20.5	22.5	0.1		2	0.1	
22.5	24.5		1		1	
24.5	26.5		5		5	
26.5	27.88		5		5	
27.88	30		5		5	
30	32		3		7	
32	34		3		3	
34	36				10	
36	38				10	
38	39.55		5		2	
39.55	41		3		3	
41	43		2	2	2	
43	44.9			1	7	
44.9	47.3		3		2	
47.3	49.45		1		0.1	
49.45	52.75		3		0.1	
52.75	53.88	0.1		0.1		
53.88	56.4		0.1	0.1	0.1	
56.4	57.5	0.1		1	0.1	
57.5	59.5		3			
59.5	60.85			1	0.1	
60.85	63	0.1		2	1	
63	64.9			5	1	
64.9	67.22	0.1		5	0.1	
67.22	69.83	0.1		5	0.1	
69.83	70.4	0.1		5	1	
70.4	72.47	0.1		5	0.5	
72.47	74.72			5	0.1	
74.72	75.65			5	0.1	
75.65	78	0.5		5	0.1	
78	80	0.1		5	0.1	
80	82	0.5		5	0.5	
82	84	0.5		5	0.5	
84	86	0.1		5	0.1	
86	88	0.1		5	0.1	
88	90	0.1		5	0.1	
90	92	0.1	0.1	5	0.1	
92	93.75			5	0.1	
93.75	94.35		0.1	1		
94.35	97	0.5		5		
97	98.6					
98.6	100.55					
100.55	103					
103	104.87			1		

Faults

From_m	To_m	Type	Alpha
8.5	19.5	FR	
52.25	53.6	FR	55
99.7	118.5	FR	25

Assays

Cu_ppm	Fe_%	Au_ppm
98	6.98	8
51	6.93	-5
136	6.48	6
71	4.75	-5
65	5.58	5
350	9.22	9
201	3.83	6
199	1.83	13
383	2.72	6
422	3.66	7
134	2.93	-5
167	2.84	5
204	3.09	-5
286	2.54	7
169	1.91	5
199	3.55	6
125	1.81	-5
56	3.56	5
188	3.39	-5
141	3.99	6
89	2.54	5
83	2.37	5
412	2.91	-5
128	3.79	-5
197	5.41	-5
40	2.42	-5
60	4	9
74	4.69	-5
28	6.02	-5
87	5.72	5
66	5.13	-5
108	4.3	-5
49	5.63	-5
47	4.69	-5
47	5.01	5
257	5.74	-5
108	5.08	26
148	5.26	-5
285	4.84	-5
122	4.85	-5
196	4.94	-5
114	4.57	705
74	4.21	-5
134	3.98	-5
58	2.57	-5
255	5	-5
320	4.35	-5
620	4.15	-5
236	3.62	-5
218	4.14	-5

Drill Hole	**DDH-THU-001A**	**Nicola Mining Inc.**	Date: 7/3/2016
Easting	650544	Bearing	25
Northing	5564063	Inclination	-45
Elevation	836	Depth	235

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
53.5	182				
182	187.7			EQ	TR
187.7	207				
207	212.5			EQ	TR

Alteration

Alt1	Alt2

Mineralisation

From	To	CP	SC	MT	PY	BO
103	104.87			1		
104.87	106.85			2		
106.85	108.65			1	0.1	
108.65	110.5			0.5	0.1	
110.5	112.85	0.5		0.1		
112.85	115	1		0.1	0.1	
115	117		1	0.1		
117	119			0.5		
119	120.1		0.1	0.5		
120.1	122		0.1	[illegible]	0.1	
122	124		1	1		
124	126.08		1	0.5		
126.08	128.33			0.5		
128.33	130.39	1		0.1		
130.39	131.6	0.5		0.1		
131.6	133.75	0.1		0.1		
133.75	135.88	0.1		0.1		
135.88	137.71	0.1		0.1		
137.71	139.7	0.1		0.1		
139.7	141.78	0.1		0.1		
141.78	143.7	0.5	15			
143.7	145.85		7			
145.85	148.28		2			
148.28	150.05		1		0.1	
150.05	152.28	0.5	1		0.1	
152.28	153.85	1			0.1	0.1
153.85	156	1	3			1
156	158.3	0.5	2			
158.3	160	1	2	0.1		
160	162.62	0.5	2			0.1
162.62	164.26		2			
164.26	166.35		1			
166.35	168.4		1			
168.4	170.47		0.1			
170.47	172.65		0.1			
172.65	173.6		3			
173.6	176.48	0.1		[illegible]		
176.48	177.55		3	2		
177.55	179.72			2		
179.72	182.05			2		
182.05	184		1	0.5		
184	186		1	0.5		
186	188		1	0.5		
188	190			2		
190	192		0.5	2		
192	194	0.1		2		
194	196			2		
196	198			2		
198	200			2		
200	202	0.1	0.1	2		
202	204.67			2		
204.67	207	0.1		2		
207	208.91			2		

Faults

From_m	To_m	Type	Alpha
99.7	118.5	**FR**	25
128.7	131.37	**FC**	25
152.5	153.8	**FC**	
173	176.8	**FR**	
202.3	205	**FR**	

Assays

Cu_ppm	Fe_%	Au_ppm
218	4.14	-5
220	4.25	-5
301	4.28	-5
213	3.03	-5
104	3.58	-5
1310	3.43	-5
370	4.2	-5
239	4.21	-5
285	3.65	20
167	3.88	-5
1080	2.68	-5
1900	3.83	-5
839	3.82	-5
3230	2.98	-5
2850	2.88	-5
873	6.49	-5
1100	5.11	-5
240	5.22	-5
89	4.61	383
427	5.07	-5
3670	7.41	-5
242	4.84	-5
53	2.38	-5
138	4.09	-5
80	4.69	8
3820	2.87	-5
779	3.49	37
1800	4.77	-5
707	5.2	7
864	4.99	-5
1490	3.88	-5
1060	4.52	-5
400	4.28	6
392	2.48	-5
217	5.98	-5
139	7.53	-5
650	4.29	-5
95	1.97	-5
84	4.09	-5
111	4.11	-5
48	1.37	-5
72	1.83	22
51	1.38	-5
98	4.11	5
72	3.26	6
104	3.59	37
93	3.63	387
96	3.37	13
92	3.58	32
91	3.24	57
82	3.01	30
127	3.1	-5
116	3	6

Drill Hole	**DDH-THU-001A**	**Nicola Mining Inc.**	Date: 7/3/2016
Easting	650544	Bearing	25
Northing	5564063	Inclination	-45
Elevation	836	Depth	235

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
207	212.5			EQ	TR
212.5	220.3			M	
220.3	221.5			PO	
221.5	235			M	

Alteration

Alt1	Alt2

Mineralisation

From	To	CP	SC	MT	PY	BO
207	208.91			2		
208.91	211			1		
211	213			2		
213	215			2		
215	218			2		
218	220	0.5		2		
220	222			7	1	
222	224	0.1		2	0.1	
224	226	0.1		3		
226	228.2	0.1		3		
228.2	229.67		0.1	2		
229.67	232.8			2		
232.8	235			2		

Faults

From_m	To_m	Type	Alpha
209	209.5	**FR**	
219.8	220.5	**FR**	15

Assays

Cu_ppm	Fe_%	Au_ppm
116	3	6
132	2.58	9
67	3.47	56
85	3.25	125
122	3.9	33
1050	4.16	9
148	3.49	6
135	4.03	18
128	3.97	15
117	3.55	16
102	2.62	-5
150	3.65	-5
95	2.9	-5

250

300

Drill Hole	**DDH-THU-002**	**Nicola Mining Inc.**	Date: 7/14/2016
Easting	646727.031	Bearing	40
Northing	5564094.081	Inclination	-60
Elevation	1463.16	Depth	448.06

Geological Log

Depth :	Lithology						Alteration		Mineralisation								Faults				Assays		
	From	To	Lith	Modifier	Mod	Mod2	Alt1	Alt2	From	To	CP	SC	MT	PY	BO	PO	From_m	To_m	Type	Alpha	Cu_%	Fe_%	
	0	6																					
	6	154.5																					
50					CS	MS																	50
100																							100

Drill Hole	**DDH-THU-002**	**Nicola Mining Inc.**	Date: 7/14/2016
Easting	646727.031	Bearing	40
Northing	5564094.081	Inclination	-60
Elevation	1463.16	Depth	448.06

Geological Log

Depth :	Lithology From	Lithology To	Lith	Modifier	Mod	Mod2	Alteration Alt1	Alt2	Mineralisation From	To	CP	SC	MT	PY	BO	PO	Faults From_m	To_m	Type	Alpha	Assays Cu_%	Fe_%
	6	154.5			CS	MS																
150																						150
	154.5	207.5							154.5	158											115	3.95
									158	160.7				0.1							204	4.37
									160.7	163				0.5							179	2.46
									163	165											129	2.33
									165	167											70	1.97
									167	169				0.1							152	1.96
									169	171				0.1							374	2.97
									171	173	0.1			0.1							222	2.74
									173	175											1220	2.81
									175	177											200	3.3
									177	178.7											762	4.26
									178.7	181				0.5							1440	2.29
					FA				181	181.6				1			154.5	207.55	FR	40	2580	2.18
									181.6	183.55	0.5			5							4640	3.24
									183.55	185.5				1							92	2.53
									185.5	187				1							54	2.81
									187	189.92				1							42	3.01
									189.92	190.77				0.5							863	2.46
									190.77	192	0.5			0.5							350	3.63
									192	194				1							377	2.71
									194	195.7				0.5							69	3.57
									195.7	197.6				0.5							234	3.56
200									197.6	200.3				0.5							76	2.86
									200.3	202				0.5							29	0.58
									202	204.2				0.5							165	5.43
									204.2	206											66	3.92
									206	207.55				0.5							47	5.39
	207.55	259.5			XT				207.55	209				0.5							5	0.75

Drill Hole	**DDH-THU-002**	**Nicola Mining Inc.**	Date: 7/14/2016
Easting	646727.031	Bearing	40
Northing	5564094.081	Inclination	-60
Elevation	1463.16	Depth	448.06

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
207.55	259.5				
259.5	268.9			BR	F
268.95	331.0			BA	BR

Alteration

Alt1	Alt2

Mineralisation

From	To	CP	SC	MT	PY	BO	PO
207.55	209						
209	211						
211	213						
213	215						
215	217						
217	219						
219	221						
221	223						
223	225				0.1		
225	227				1		
227	229				0.1		
229	231				0.5		
231	232.45				0.5		
232.45	233.9				5		
233.9	236				0.5		
236	238				0.1		
238	240				0.1		
240	242				0.1		
242	244				0.1		
244	246				0.1		
246	249				0.1		
249	251				0.1		
251	253				0.1		
253	255				0.5		
255	257				0.1		
257	259				0.1		
259	260.3				0.1		
260.3	262				2		
262	264	0.1			2		
264	266			0.5	1		
266	268			0.5	0.5		
268	270			0.1	1		
270	272				0.5		
272	274			0.1	3		
274	276				3		
276	277.13				2		
277.13	278.4			0.1	2		
278.4	280				2		
280	282				3		
282	284				3		
284	286				3		
286	288				5		
288	290.1				5		
290.1	292	0.5			1		
292	294	0.5			5		
294	296	1			1		
296	297.55	0.1		0.1	1		
297.55	299				3		
299	300.65				2		
300.65	302.5	0.1		0.1	10		
302.5	304	1			10		
304	305.4				7		
305.4	307.55				10		
307.55	309.45	0.1			10		
309.45	311				10		
311	312.5				7		

Faults

From_m	To_m	Type	Alpha
223.5	233.9	FR	30
235.4	260.4	FR	

Assays

Cu_%	Fe_%
5	0.75
7	0.51
9	0.9
11	0.46
3	0.25
4	0.38
6	0.46
6	0.25
13	1.3
9	1.46
9	1.98
17	4.73
57	6.5
70	5.46
465	0.33
4	0.28
4	0.33
2	0.22
15	0.18
20	0.17
17	0.24
4	0.21
5	0.21
14	0.28
6	0.39
13	0.39
37	0.83
28	2.65
27	2.56
25	3.37
31	4.98
19	5.39
27	4.72
12	4.62
28	4.55
33	3.77
51	3.26
79	4.34
136	4.52
72	5.04
88	5.36
111	5.04
55	5.27
353	4.47
311	5.54
448	5.11
135	5.31
59	5.65
510	6.48
3450	8.08
1050	6.85
757	6.34
855	8.43
2660	3.28
3730	6.65
473	5.19

Drill Hole	**DDH-THU-002**	**Nicola Mining Inc.**	Date: 7/14/2016
Easting	646727.031	Bearing	40
Northing	5564094.081	Inclination	-60
Elevation	1463.16	Depth	448.06

Geological Log

Depth:	Lithology From	Lithology To	Lith	Modifier	Mod	Mod2	Alteration Alt1	Alteration Alt2	Mineralisation From	To	CP	SC	MT	PY	BO	PO	Faults From_m	To_m	Type	Alpha	Assays Cu_%	Fe_%
	268.95	331.0							311	312.5				7							473	5.19
									312.5	314				5							539	4.41
									314	315.65				5							827	3.76
									315.65	317				5							383	4.68
									317	318				5							640	5.7
									318	320				5							1130	4.03
					BA	BR			320	322				5							401	2.85
									322	324	0.1			2							1240	2.91
									324	326				2			318	331.08	FR	55	452	3.83
									326	328				2							112	3.16
									328	329.35				2							209	2.96
									329.35	331.08	0.1			3							715	3.14
	331.08	417							331.08	332.6	7		10	1							37900	9.12
									332.6	334	1		2	2							2960	4.29
									334	335.4				1							5570	5.07
									335.4	337	3		10	5							20800	11.8
									337	338.8	3		15	10							25100	14.6
									338.8	340.5	7		20	5							17500	23.4
									340.5	342	3		15	10							11400	14.3
									342	343.5	5		15	7							13900	14.3
									343.5	345	0.5		7	30		5					3510	16.1
									345	346.5	1		7	7		5					1420	13.2
									346.5	348	1		7	5		5					5230	9.22
									348	349.5	1		5	2		2					420	4.97
									349.5	351	0.5		5	5		15					1820	17.3
350									351	353	0.5		5	5		5					853	11.4
									353	354.5	0.1		5	2		10					1020	12.5
									354.5	356	0.5		5	5		15					891	12.5
									356	357.84	0.1		7	3		7					1320	14.1
									357.84	359.5	0.1		7	5		1					282	5.84
									359.5	361	0.5		7	3							710	6.92
									361	362.5	3		10	2							7160	9.67
									362.5	364	1		10	2							3760	6.54
									364	365.5	3		10	2							3680	4.1
									365.5	367	0.1		7								8820	4.89
									367	368.5	1		5	2							16000	5.77
									368.5	370	5		5	5							13900	7.21
									370	371	1		7	3							19000	6.52
									371	372.65	0.1			1							4630	4.29
					BA	BR			372.65	374	5		7	1							37500	8.46
									374	375.7	5		7	3							30300	9.92
									375.7	377	5		7	3							20800	10.8
									377	378.8	1		7	2							11500	10.1
									378.8	380	3		10	2							40800	14.2
									380	381.5	3		10	2							22200	13.7
									381.5	383	5		10	2							19800	9.28
									383	384.7	3		10	1							22800	15.1
									384.7	386.5	5		5	2							38000	14.1
									386.5	388	3		10		1						7360	9.83
									388	389.23	1		10	1	0.5						5250	12.1
									389.23	391.33	1		10	0.5							4250	12
									391.33	393	3		10	1							16100	11.7
									393	395	1		5	5							9250	8.53
									395	395.9	0.1		5								2310	3.27
									395.9	397.4	1		2	0.5							4970	6.35
									397.4	398.35	1		1	1							163	2.23
									398.35	400.2	3		3								4280	5.33
400									400.2	402.5	1		3	0.1							7830	5.99
									402.5	404.7	0.1		0.5	0.5							4350	5.35
									404.7	407.3			1	1							2150	3.84
									407.3	408.55	0.1			2							2970	4.4
									408.55	411.5	0.5			0.5							1150	4.1
									411.5	412.8	0.1		0.1	0.5							433	3.43
									412.8	415	1		0.1	3							6400	7.42
									415	417	10		10	3							38500	16.3

Drill Hole	**DDH-THU-002**	**Nicola Mining Inc.**	Date: 7/14/2016
Easting	646727.031	Bearing	40
Northing	5564094.081	Inclination	-60
Elevation	1463.16	Depth	448.06

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
331.08	417			BA	BR
417	419			PO	
419	448.0				
				M	

Alteration

Alt1	Alt2

Mineralisation

From	To	CP	SC	MT	PY	BO	PO
415	417	10		10	3		
417	419				5		
419	421.23				3		
421.23	423.5						
423.5	425.25						
425.25	426						
426	428			1			
428	430			2			
430	432			2			
432	434			1			
434	436			2			
436	438						
438	440						
440	442						
442	444						
444	446						
446	448.06						

Faults

From_m	To_m	Type	Alpha
417	425.2	FR	50

Assays

Cu_%	Fe_%
38500	16.3
231	6.76
95	6.85
43	4.81
41	4.49
199	5.78
137	2.29
101	3.27
129	3.95
88	3.38
107	4.43
78	4.21
141	3.67
140	4.16
129	3.95
159	4.27
119	3.73

450

500

Drill Hole	**DDH-THU-003**	**Nicola Mining Inc.**	Date: 23/07/2016
Easting	647022.756	Bearing	60
Northing	5564993.081	Inclination	-55
Elevation	1462.024	Depth	136.25

Geological Log

Depth :	Lithology						Alteration		Mineralisation							Faults				Assays		
	From	To	Lith	Modifier	Mod	Mod2	Alt1	Alt2	From	To	CP	SC	MT	PY	BO	From_m	To_m	Type	Alpha	Cu_ppm	Fe_%	Au_ppm
	0	2.4																				
	2.4	3.87			M				2.4	3.87	1		5							2250	7.42	26
	3.87	5.3			AO				3.87	5.3	3		20							8670	23.9	16
	5.3	36.25							5.3	7	0.1		3							321	5.37	-5
									7	9	0.1		2							44	4.24	-5
									9	11	0.1		2							297	4.65	-5
									11	13	0.1		2							191	4.32	6
									13	15	0.1		2		0.1					193	4.28	-5
									15	17	0.5		2							177	3.97	-5
									17	19	0.1		2							96	4.14	-5
					M				19	21	0.1		2							103	4.14	-5
									21	23			2							115	4.4	6
									23	25			2							159	4.01	-5
									25	27			2							331	4.3	-5
									27	29			2							203	4.28	5
									29	31			2							228	4.26	-5
									31	33	0.1		2							150	4.37	-5
									33	35			2							412	4.54	-5
									35	36.25			2							913	4.06	-5
	36.25	40.3			AO	F			36.25	38.2										46	1.15	-5
									38.2	40.3			5							33	1.3	-5
	40.3	136.2							40.3	42			2							131	4.02	-5
									42	44.05			2							89	3.88	-5
									44.05	46			2							95	3.82	-5
									46	48			1							77	3.95	-5
									48	50			2							126	4.15	-5
50									50	52			2							125	4.01	-5
									52	54			2							3420	4.09	-5
									54	56			2							155	4.08	-5
									56	58	0.1		2							108	4.04	-5
									58	60	0.1		2							111	3.97	-5
									60	62			2							103	3.67	6
									62	64	0.1		2							147	3.7	-5
									64	66			2							162	4.15	5
									66	68			2							154	4.09	-5
									68	70			2							113	4.33	-5
									70	72			2							167	4.15	-5
					M				72	74			2							191	4.22	-5
									74	76			3							138	3.9	-5
									76	78			3							103	3.94	-5
									78	80	0.1		3							58	3.73	-5
									80	82			3							91	3.62	21
									82	84			3							76	3.44	-5
									84	86			3							101	3.76	-5
									86	88			3							107	4.01	5
									88	90			3							97	3.65	6
									90	92			3							120	3.95	-5
									92	94			3							82	3.33	-5
									94	96			3							113	4.41	-5
									96	98	0.5		3							170	4.33	12
									98	100	0.5		3							213	4.19	7
100									100	102	0.5		1							79	4.58	17
									102	104	0.1		2							121	4.25	-5

Drill Hole **DDH-THU-003**

Nicola Mining Inc.

Date: 23/07/2016

Easting	647022.756	Bearing	60
Northing	5564993.081	Inclination	-55
Elevation	1462.024	Depth	136.25

Geological Log

Depth :

Lithology

From	To	Lith	Modifier	Mod	Mod2
40.3	136.25			M	

Alteration

Alt1	Alt2

Mineralisation

From	To	CP	SC	MT	PY	BO
102	104	0.1				
104	106					
106	108					
108	110					
110	112					
112	114					
114	116	0.5				
116	118					0.1
118	120					
120	122					
122	124					
124	126	0.5				
126	128					
128	130					
130	132					
132	134					
134	136.25					

Faults

From_m	To_m	Type	Alpha

Assays

Cu_ppm	Fe_%	Au_ppm
121	4.25	-5
110	3.78	-5
138	4.07	-5
127	4.03	-5
154	3.94	-5
137	4.02	-5
192	4.23	6
120	4.31	-5
217	4.41	-5
116	4.16	-5
127	4.11	8
176	4.45	-5
110	4.26	9
79	3.94	36
144	4.09	-5
152	4.2	-5
119	4.3	-5

150

200

Drill Hole	**DDH-THU-004**	**Nicola Mining Inc.**	Date: 7/28/2016
Easting	647015	Bearing	25
Northing	5564990	Inclination	-45
Elevation	1470	Depth	163.88

Geological Log

Depth :	Lithology						Alteration		Mineralisation							Faults				Assays		
	From	To	Lith	Modifier	Mod	Mod2	Alt1	Alt2	From	To	CP	SC	MT	PY	BO	From_m	To_m	Type	Alpha	Cu_ppm	Fe_%	
	0	4.2							2.44	4.22										13000	22.5	
	4.2	163.88							4.22	6										191	5.36	
									6	8										225	4.66	
									8	10										106	4.27	
									10	12										113	4.25	
									12	14										92	4.01	
									14	16										45	4.28	
									16	18										134	4.03	
									18	20										294	4.2	
									20	22										228	4.14	
									22	24										117	4.17	
									24	26										261	4.02	
									26	27.5										144	4.09	
									27.5	29										82	3.45	
									29	31										85	3.28	
									31	33										17	0.26	
									33	34.25										21	0.23	
									34.25	35.3										21	0.53	
									35.3	37										296	3.89	
									37	39										131	3.86	
									39	41										136	4.05	
									41	43										132	4.05	
									43	45										132	3.87	
									45	47										142	4.3	
									47	49										250	4.23	
50									49	51										140	4.2	50
									51	53										133	4.18	
					M	F			53	55										176	4.12	
									55	57										170	4.09	
									57	59										112	3.28	
									59	61										173	4.1	
									61	63										55	3.37	
									63	65										29	3.94	
									65	67										25	3.96	
									67	69										45	4.24	
									69	71										76	4.04	
									71	73.25										88	4.15	
									73.25	75										77	3.85	
									75	77										203	4.03	
									77	79										151	4.82	
									79	81										80	3.1	
									81	83										133	3.99	
									83	85										124	3.96	
									85	87										90	4	
									87	89										169	3.92	
									89	91										88	3.3	
									91	93										111	3.34	
									93	95										139	3.78	
									95	97										133	3.74	
									97	99										136	4.16	
100									99	101										113	4.04	100
									101	103										127	4.05	
									103	105										100	3.72	

Drill Hole **DDH-THU-004**

Nicola Mining Inc.

Date: 7/28/2016

Easting	647015	Bearing	25
Northing	5564990	Inclination	-45
Elevation	1470	Depth	163.88

Geological Log

Depth :	Lithology						Alteration		Mineralisation							Faults				Assays		
	From	To	Lith	Modifier	Mod	Mod2	Alt1	Alt2	From	To	CP	SC	MT	PY	BO	From_m	To_m	Type	Alpha	Cu_ppm	Fe_%	
	4.2	163.8			M	F			103	105										100	3.72	
									105	107										117	3.66	
									107	109										70	2.87	
									109	111										170	3.73	
									111	113										214	3.8	
									113	115										142	4.35	
									115	117										199	4.19	
									117	119										131	4.29	
									119	121										180	4.1	
									121	123										170	4.22	
									123	125										241	3.99	
									125	127										146	3.99	
									127	129										147	3.81	
									129	131										125	3.68	
									131	133										116	4.11	
									133	135										225	3.92	
									135	137										140	4.11	
									137	139										165	4.26	
									139	141										143	4.11	
									141	143										320	4.13	
									143	145										76	3.97	
									145	147										121	4.05	
									147	149										185	4.08	
150									149	151										108	4.16	150
									151	153						150.8	151.8	FR	25	160	4	
									153	155										173	4.45	
									155	157										125	4.39	
									157	159										166	4.37	
									159	161										183	4.1	
									161	162.5										88	4.11	
									162.5	164										196	4.26	
200																						200

Lithology/Clast/Matrix Codes		
	A	Andesite
	ARG	Argillite
	C	Carbonate-rich rocks
	OB	Overburden (Casing)
	G	Guichon Diorite
	BX	Breccia
	FLT	Fault
	LA	Feldspar-Quartz Porphyry (Latite)
	Y	Coyle Stock
	NC	No Core
	K	Skarn
	V	Kingsvale/Spences Bridge
	R	Rhyolite
	Q	Quartzo-Feldspathic Sedimentary Rocks

Lithology Modifiers		
	AO	Alteration Obscured
	AM	Amygdaloidal
	BD	Bedded
	BL	Bleached
	BR	Brecciated
	CS	Clast supported
	C	Coarse grained
	XT	Crystal
	EQ	Equigranular
	FA	Fault
	F	Fine grained
	HF	Hornfels
	MS	Matrix supported
	M	Medium grained
	ML	Monolithic
	MO	Mottled
	MY	Mylonitic
	OX	Oxidised
	PL	Polylithic
	PO	Porphyritic
	SP	Spotted
	TR	Trachytic
	XN	Xenolithic
	EOH	End Of Hole
	FG	Fragmental
	BA	Banded

Contact Type		
	SH	Sharp
	GR5	Gradational 5-10cm
	GR10	Gradational 10-30cm
	GR30	Gradational 30cm or longer

Alteration Assemblage		
	MSK	Magnetite Skarn (Magnetite, chalcopyrite, quartz, calcite)
	GSK	Garnet Skarn (Garnet, epidote, calcite, pyrite, actinolite, magnetite)
	SSK	Specularite Skarn (Specularite, kspar, magnetite, actinolite, epidote)
	SI	Silicification (Quartz, tourmaline)
	PR	Propylitic (Chlorite + Chlorite Actinolite, Albite, Dolomite, Calcite)
	QSP	Phyllic (Sericite, Quartz, Pyrite + Dolomite/Ankerite, Tourmaline)
	PB	Potassic (Biotite, Kspar + Magnetite, Quartz, Anhydrite)
	PK	Potassic (Kspar, Biotite + Magnetite, Quartz, Anhydrite)
	CA	Carbonate (Dolomite/Ankerite/Siderite + Sericite Quartz + Calcite)
	AR	Argillic (Clay + Carbonate)
	NA	Sodic (Actinolite + Albite)

Alteration Styles		
	CD	Clast-dominant
	FT	Fracture coating
	FS	Fracture Selvage
	MD	Matrix-dominant
	PA	Patchy
	PR	Pervasive
	SL	Selective
	VS	Vein Selvage

Alteration Minerals (1-5 ranking, 1=low, 5=high)		
	KSP	K-spar
	BT	Biotite
	GT	Garnet
	CL	Chlorite
	AC	Actinolite
	EP	Epidote
	CA	Calcite
	QZ	Quartz
	TM	Tourmaline
	CY	Clay
	TA	Talc
	HE	Hematite
	AN	Ankerite
	DO	Dolomite
	SR	Sericite
	AH	Anhydrite
	AB	Albite

Mineralization Style		
	B	Banded
	BB	Blebby
	CD	Clast-Dominant
	D	Disseminated
	F	Fracture-Controlled
	MSV	Massive (>75%)
	M	Matrix
	SM	Semi-Massive
	V	Vein

Mineral Zone		
	SU	Supergene
	HY	Hypogene

Mineral Types (% in core)		
	CP	Chalcopyrite
	SC	Specularite
	MT	Magnetite
	PY	Pyrite
	BO	Bornite
	CU	Native Copper
	AZ	Azurite
	ML	Malachite
	CC	Chalcocite
	PO	Pyrrhotite

Structure Codes		
	Bu	Boudin
	BXT	Carbonate breccia
	CTC	Contact
	BXC	Contact breccia
	BXK	Crackle breccia
	S1	Deformation Cleavage 1
	S2	Deformation Cleavage 2
	BXD	Dissolution breccia
	DYK	Dyke(s)
	FA	Fault
	BXL	Fault breccia
	FTG	Fault Gouge
	FTR	Fault Rubble
	FX	fracture, dry
	FFL	Fractures, filled (clay, carb, sulfates)
	BXH	Hydrothermal breccia
	BXI	Intrusive breccia
	BXJ	Jigsaw breccia
	JN	Joint
	LN	Lineation
	BXX	Non specific breccia
	BXP	Polylithic breccia
	SO	Primary bedding or foliation
	L1	Primary Lineation 1
	L3	Secondary Lineation 3
	SH	Shear
	SLK	Slickenside
	STK	Stockwork
	Ven	Vein(s)

Infill Mineral		
	An	Ankerite
	Ar	arsenopyrite
	Az	azurite
	Bo	bornite
	Cc	chalcocite
	Ci	cinnabar
	Cp	chalcopyrite
	Cr	cuprite
	Cu	copper (native)
	Cv	covelite
	He	hematite
	Li	limonite
	Ml	malachite
	Mt	magnetite
	Py	pyrite
	Sc	specularite
	Sp	sphalerite
	Tt	tennantite
	Ab	Albite
	Ac	actinolite
	Ah	anhydrite
	Ap	apatite
	Bt	biotite
	Ca	carbonate
	Ct	calcite
	Cl	chlorite
	Cy	clay
	Do	dolomite
	Ep	epidote
	Fs	feldspar
	Fu	fuchsite
	Hb	hornblende
	Ks	k-spar
	Ol	olivine
	Px	pyroxene
	Qz	quartz
	Se	serpentine
	Si	silica (chalcedony, opal, amethyst)
	Sr	sericite
	Su	sulphate
	Ta	talc
	Tm	tourmaline
	Vu	Vuggy
	Gt	Garnet
	Po	Pyrrhotite

HoleId	From	To	MajLitho	Texture	Texture2	ClastType	Matrix-Type	BottomContactType	BottomContactNature	Angle	Comments
DDH-THU-001	0	7.5	OB					FA			Sandy gravel + clay overburden with granodiorite to diorite boulders
DDH-THU-001	7.5	8.7	A	PO				FA	GR5		Tabular plag phenos; dark green colour with light green to grey tabular feldspar phenocrysts; strongly magnetic; cut at low angle to core axis with minor diorite included
DDH-THU-001	8.7	13.4	G	M	PO			FA	GR5		Medium to coarse-grained; medium-grey hornblende +biotite; coarse hematite blebs replacing augite? pickup at 11.8m; locally plag phenos are euhedral - but are typically subhedral; 20% mafics
DDH-THU-001	13.4	15.1	BX	AO				FA	SH	70	Bleached light green; alteration obscured texture with massive appearance; specularite has been replaced to earthy hematite
DDH-THU-001	15.1	21.56	G	M	PO			AF	SH	80	Medium grey biotite + hornblende diorite; white plag phenos prominent. Red secondary blebs replacing mafic phenos throughout
DDH-THU-001	21.56	56.77	BX	MS		A	G	AF	SH	25	Diorite = most dominant commonly altered by albite or QSP; dark grey to greenish grey andesite porphyry clasts most dominant type in interval; but light grey (rhyolite) and pink clasts (monzonite) are also present
DDH-THU-001	56.77	80.47	G	M	PO						Medium grey-green; locally brecciated plag porphyritic diorite
DDH-THU-001A	0	8.5	OB								
DDH-THU-001A	8.5	9.15	A	PO				FA	GR5		Strongly magnetic; euhedral to subhedral plag phenos
DDH-THU-001A	9.15	13.49	G	M				AF	SH	70	Medium grained; 5% magnetite
DDH-THU-001A	13.49	13.59	MO	EQ				IN	SH		10cm monzonite dyke; primary kspar; interlocking crystals; non-magnetic; late epidote stringers
DDH-THU-001A	13.59	13.79	A	PO				IN	SH	45	Andesite porphyry dyke
DDH-THU-001A	13.79	14.65	G	M				AF	SH		Medium grained diorite; strongly faulted; red hematite specks
DDH-THU-001A	14.65	15.5	BX	MS		S	G	AF	SH		Bleached breccia zone; subrounded clast boundaries; washed out appearance
DDH-THU-001A	15.5	15.7	A	PO				IN	SH	40	Crowded plagioclase porphyry with magnetite matrix; coarse-grained phenocrysts; possibly clast
DDH-THU-001A	15.7	21	G	M				DE	GR10		Diorite with lesser andesite
DDH-THU-001A	21	53.5	BX	MS		S	G	DE	GR30		Brecciated zone with occasional specularite replaced greywacke clasts; subrounded boundaries; diorite matrix dominant
DDH-THU-001A	53.5	182	G	M				FA	GR10		Medium grained; biotite + magnetite altered diorite; monzonite dykes through interval; possible breccia
DDH-THU-001A	182	187.7	MO	EQ	TR			IN	SH	45	Equigranular; non-magnetic; sharp lower contact
DDH-THU-001A	187.7	207	G	M				IN	GR10		Diorite with lesser monzonite and pegmatite
DDH-THU-001A	207	212.5	MO	EQ	TR			IN	GR30		Series of monzonite dykes with lesser diorite
DDH-THU-001A	212.5	220.3	G	M				IN	GR10		Medium grained; biotite + magnetite diorite
DDH-THU-001A	220.3	221.5	A	PO				IN	GR5		Strongly magnetic; andesite porphyry dyke
DDH-THU-001A	221.5	235	G	M							Medium grained diorite with lesser monzonite dykes
DDH-THU-002	0	6	OB								
DDH-THU-002	6	154.5	V	CS	MS			FA	SH		Undifferentiated Kingsvale; no measurable lower contact angle
DDH-THU-002	154.5	207.55	R	FA				FA	SH	40	Strongly faulted rhyolite; altered to sericite in intensely faulted areas; gouge common; local zones of greywacke
DDH-THU-002	207.55	259.5	C	XT				FA	GR10		Massive crystalline limestone; local iron staining
DDH-THU-002	259.5	268.95	S	BR	F	C		AF	SH	20	Fine grained; moderately to well sorted; brecciated limestone fragments through interval; garnet zones common; faulted
DDH-THU-002	268.95	331.08	K	BA	BR	S		FA	GR10		Garnet + Pyrite +/- Diopside Skarn; strongly brecciated; with clasts of garnet - limestone and greywacke
DDH-THU-002	331.08	417	K	BA	BR			FA	SH	35	Epidote + Actinolite + Magnetite + Chalcopyrite +/- Pyrite +/- Pyrrhotite Skarn; locally brecciated; strongly faulted from 350-363m
DDH-THU-002	417	419	A	PO				IN	SH	45	Chlorite altered andesite dyke at base of fault zone
DDH-THU-002	419	448.06	G	M							Medium grained unaltered biotite + hornblende diorite
DDH-THU-003	0	2.4	OB								Boulders
DDH-THU-003	2.4	3.87	G	M						25	Mineralized quartz diorite
DDH-THU-003	3.87	5.3	BX	AO						35	Tourmaline + quartz + chalcopyrite breccia
DDH-THU-003	5.3	36.25	G	M							Biotite + magnetite quartz diorite with weak sericite alteration
DDH-THU-003	36.25	40.3	LA	AO	F						Felsic dyke?
DDH-THU-003	40.3	136.25	G	M							Medium grained diorite with local monzonite dykelets
DDH-THU-004	0	4.2	BX					FA	SH	30	Tourmaline + chalcopyrite + quartz breccia; lower contact
DDH-THU-004	4.2	163.88	G	M	F						Magnetite + biotite quartz diorite with localized alteration zones destroying texture

Hole_ID	From_m	To_m	AltMaj	AltMin	KSP	BT	CL	EP	CA	CY	HE	SR	QZ	AB	AH	Extra1	EXTRA2	EXTRA3	Style1	Style2	AN	DO	Comments	GT	TA	AC	TM	Col1	Shade	Colour2
DDH-THU-001	7.5	13.4	PR			1	4						2						PR				Chlorite after primary biotite			1		GREEN	DARK	
DDH-THU-001	13.4	14.8	CA				1	5	5										PR									GREEN	PALE	
DDH-THU-001	14.8	21.56	PR			1	3	2	1				1	2					PR				V. hard and glassy = albite?			1		GREY	MEDIUM	
DDH-THU-001	21.56	23	CA				1	5	5		4								PR				Pervasive calcite + epidote					GREEN	PALE	
DDH-THU-001	23	33	PR	PK	1		3	3	2										PR	PA				1		1		GREEN	DARK	
DDH-THU-001	33	44.5	PR	PK	1	1	2		3					3					MD	PA			V. hard with bluish grey tinge = albite; patchy zones with locally intense Kspar			1		GREY	MEDIUM	PINK
DDH-THU-001	44.5	45.7	PR	PK	1		1	5	2										PR	PA			Pervasive epidote with patches of Kspar					GREEN	LIGHT	
DDH-THU-001	45.7	56.77	QSP	PK			1	2	2			4							PR	PA	4		Classic QSP alteration					GREY	LIGHT	
DDH-THU-001	56.77	80.2	PR		1	1	3	2	1		2	2	2	3					PR				Glassy; actinolite replaces phenos; quartz as veins; sericite associated with localized patchy QSP			2		GREY	MEDIUM	
DDH-THU-001A	8.5	13.7	PR			2	4		1				2	1					PR				Chlorite after biotite			1		GREEN	DARK	
DDH-THU-001A	13.7	15.5	CA					5	5										PR									GREEN	PALE	
DDH-THU-001A	15.5	23	PR	PK	1	1	3	3	2										PR	PA				1		1		GREY	DARK	
DDH-THU-001A	23	52.75	PR	QSP	1	1	1	1	3		3	3	2	1					PR	PA			Propylitic (hematite) overprinting QSP alteration (patchy); may be a function of the clastic nature of the interval			1		GREY	LIGHT	PINK
DDH-THU-001A	52.75	235	PR		2	1	3	2	2		1	1	2	3					PR				Glassy; hornfelsed diorite with selective biotite + magnetite alteration of mafic sites; patchy kspar + epidote alteration proximal to monzonite intrusions; quartz-carbonate veins common in interval; localized tourmaline + chlorite veins			1	2	GREY	MEDIUM	PINK
DDH-THU-002	6	154.5																					Fresh; unaltered					VARICOLOURED	MEDIUM	
DDH-THU-002	154.5	207.55	PR				1		2	3	1	1							PR				Pervasive clay +/- sericite alteration of rhyolite; weak limonite + hematite with greywacke					GREY	LIGHT	
DDH-THU-002	207.55	259.5				1																	Unaltered limestone; trace biotite on fractures					WHITE	LIGHT	
DDH-THU-002	259.5	331.08	GSK	MSK			2	2	3				2						PR	PA			V. hard garnet + pyrite +/- epidote skarn; localized diopside	4		1		GREY	LIGHT	BLUE
DDH-THU-002	331.08	417	MSK	GSK		1	3	3	4										PR	PA			Magnetite + chalcopyrite skarn; late epidote banding overprints intial garnet bands	2		5		GREEN	DARK	
DDH-THU-002	417	448.06	PR				2		1										PR				Alteration restricted to mafic phenos					GREY	MEDIUM	
DDH-THU-003	0	3.87	PK		3														PR									GREY	MEDIUM	
DDH-THU-003	3.87	5.3	SI										5						PR				Massive tourmaline + quartz				5	BLACK	DARK	
DDH-THU-003	5.3	36.25	PR				3	2	2				1	1					PR				Dominantly propylitic (calcite + chlorite + epidote); localized patchy kspar and albite flooding					GREY	MEDIUM	GREEN
DDH-THU-003	36.25	40.3	NA	PR			3	2	2					3					PA	PA			Strong albite flooding; mixed with weakly altered diorite					GREY	PALE	
DDH-THU-003	40.3	136.25	PR				3	2	2				1						PR				Local pink carbonate veins & quartz veins; localized patchy epidote zones					GREY	MEDIUM	GREEN
DDH-THU-004	2.44	4.22	SI										5						PR								5	BLACK	DARK	
DDH-THU-004	4.22	31	PR		1	1	3	2	2										PR									GREY	MEDIUM	GREEN
DDH-THU-004	31	35.3	NA											4					PR									GREY	PALE	
DDH-THU-004	35.3	163.88	PR		1	1	3	2	2				1						PR				Patchy zones of pink calcite					GREY	MEDIUM	GREEN

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-001	7.5	9.5	D		SU			7	7										Magnetite 7% in andesite; 5% in diorite
DDH-THU-001	9.5	13.41	D	F	SU			5	2										Stringer pyrite
DDH-THU-001	13.41	15.1	F		SU											HE			~20% specularite altered to earthy hematite
DDH-THU-001	15.1	16.8	D	F	SU				5				0.1						Pyrite associated with QSP alteration
DDH-THU-001	16.8	19.2	D		SU	0.1		5	0.5										Trace cpy
DDH-THU-001	19.2	22.56	D		SU			5	0.5										
DDH-THU-001	22.56	23.5	D		SU				0.1										
DDH-THU-001	23.5	27.5	F	V	SU		2				0.1								1% native copper at 27m
DDH-THU-001	27.5	29.5	F	D	SU			0.5			0.1								Trace to 1% magnetite with quartz diorite fault blocks
DDH-THU-001	29.5	31	F		SU						1								Native copper on fracture planes 1-2%; trace overall
DDH-THU-001	31	32	F		SU		5				0.1								Trace native copper
DDH-THU-001	32	34	D	V	SU		20				0.1			0.1					Specularite within veins
DDH-THU-001	34	36	D		HY		2	0.5	1		0.5								Hypogene begins at approximately 34.5m; mag interval from 34.5-35m
DDH-THU-001	36	37.33	D		HY	0.1		5	1										
DDH-THU-001	37.33	39.39	D	BB	HY		15		5		0.1								Spec replaces pyrite as disseminations
DDH-THU-001	39.39	40.33	D	BB	HY				15										Pyrite associated with QSP alteration
DDH-THU-001	40.33	41.7	V	D	HY	0.1	15		0.1	0.1	0.1			0.1					Native copper in vein at 43.6m
DDH-THU-001	41.7	43.7	D	CD	HY		5		0.1		0.1					HE			Most specularite converted to hematite as "clast-replacement"
DDH-THU-001	43.7	45.7	BB	V	HY	1	15		0.1	0.1	1			0.5					Chalcopyrite blebs appear to be rimmed by bornite (possible specularite?)
DDH-THU-001	45.7	48	D	V	HY		1		15		0.1					HE			Most specularite has been converted to hematite
DDH-THU-001	48	50	D	V	HY		1		20							HE			QSP; pyrite both as disseminations and stringers
DDH-THU-001	50	52	D	V	HY		1		20							HE			Spec converted to hematite
DDH-THU-001	52	54	D	V	HY		1		15										
DDH-THU-001	54	55.2	D	V	HY		1		15										
DDH-THU-001	55.2	56.77	D		HY				15		0.1								
DDH-THU-001	56.77	59	D	BB	HY			3	0.5										Pyrite blebby at 57.5m
DDH-THU-001	59	61.3	D		HY			3	0.5										Magnetite at 7% in vein at 60.5m
DDH-THU-001	61.3	63	D		HY	0.1		5	1										
DDH-THU-001	63	65	M	CD	HY	0.1		5	5										Pyrite matrix; magnetite in clasts
DDH-THU-001	65	67	D		HY	0.1		1											
DDH-THU-001	67	69	D		HY	0.5		5	0.1										
DDH-THU-001	69	71	D		HY	0.5		5											
DDH-THU-001	71	73	D		HY	0.1		5	0.1										
DDH-THU-001	73	75.2	D		HY	0.1		5											
DDH-THU-001	75.2	77.6	D		HY	0.5		5											
DDH-THU-001	77.6	79	D	CD	HY	1		5	1										Semi-massive chalcopyrite at 77m
DDH-THU-001	79	80.47	D		HY	0.1		3											
DDH-THU-001A	8.5	10.9	D	V	SU	0.1		7	0.5										Pyrite stringers; barren pegmatite at end of interval
DDH-THU-001A	10.9	12.45	D		SU			5	0.1										
DDH-THU-001A	12.45	13.48	D		SU	0.1		5	0.1										
DDH-THU-001A	13.48	15.5	D		SU		0.1	3	0.1										5% magnetite in diorite; trace in bleached zone; monzonite dyke at 13.5m
DDH-THU-001A	15.5	18	D		SU			5	0.1										
DDH-THU-001A	18	20.5	D		SU	0.1		5	0.1										Gabbro texture; isolated mag
DDH-THU-001A	20.5	22.5	D		SU	0.1		2	0.1										
DDH-THU-001A	22.5	24.5	V	BB	SU		1		1										
DDH-THU-001A	24.5	26.5	D		SU		5		5										Phyllic
DDH-THU-001A	26.5	27.88	BB	D	SU		5		5										Phyllic
DDH-THU-001A	27.88	30	BB	D	SU		5		5										Phyllic
DDH-THU-001A	30	32	BB	D	SU		3		7										Phyllic
DDH-THU-001A	32	34	D		SU		3		3										Phyllic
DDH-THU-001A	34	36	CD		SU				10										Phyllic
DDH-THU-001A	36	38	D		SU				10										Phyllic
DDH-THU-001A	38	39.55	D	BB	SU		5		2										Phyllic
DDH-THU-001A	39.55	41	BB	D	SU		3		3										Phyllic
DDH-THU-001A	41	43	BB	D	SU		2	2	2										Phyllic
DDH-THU-001A	43	44.9	BB	D	SU			1	7										Phyllic
DDH-THU-001A	44.9	47.3	BB	D	SU		3		2										
DDH-THU-001A	47.3	49.45	D	V	SU		1		0.1										
DDH-THU-001A	49.45	52.75	V	D	SU		3		0.1										
DDH-THU-001A	52.75	53.88	F		HY	0.1		0.1											

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-001A	53.88	56.4	D		HY		0.1	0.1	0.1										
DDH-THU-001A	56.4	57.5	D		HY	0.1		1	0.1										Cpy in veinlet at 57.2m
DDH-THU-001A	57.5	59.5	D	V	HY		3												
DDH-THU-001A	59.5	60.85	D		HY			1	0.1										
DDH-THU-001A	60.85	63	BB		HY	0.1		2	1										
DDH-THU-001A	63	64.9	D	BB	HY			5	1										
DDH-THU-001A	64.9	67.22	D		HY	0.1		5	0.1										
DDH-THU-001A	67.22	69.83	D		HY	0.1		5	0.1										Trace galena in quartz vein at 68.8m
DDH-THU-001A	69.83	70.4	V		HY	0.1		5	1										
DDH-THU-001A	70.4	72.47	D	BB	HY	0.1		5	0.5										
DDH-THU-001A	72.47	74.72	D		HY			5	0.1										
DDH-THU-001A	74.72	75.65	D		HY		2	5	0.1										
DDH-THU-001A	75.65	78	D	V	HY	0.5		5	0.1										Cpy borders veins
DDH-THU-001A	78	80	D		HY	0.1		5	0.1										
DDH-THU-001A	80	82	D	CD	HY	0.5		5	0.5										
DDH-THU-001A	82	84	CD	D	HY	0.5		5	0.5										
DDH-THU-001A	84	86	D		HY	0.1		5	0.1										
DDH-THU-001A	86	88	D		HY	0.1		5	0.1										
DDH-THU-001A	88	90	D		HY	0.1		5	0.1										
DDH-THU-001A	90	92	D		HY	0.1	0.1	5	0.1										
DDH-THU-001A	92	93.75	D		HY			3	0.1										
DDH-THU-001A	93.75	94.35	D		HY		0.1	0.1											
DDH-THU-001A	94.35	97	D		HY	0.5		5											Majority of cpy at MO contact
DDH-THU-001A	97	98.6	D		HY														
DDH-THU-001A	98.6	100.55	D		HY														
DDH-THU-001A	100.55	103	D		HY														
DDH-THU-001A	103	104.87	D		HY			1											
DDH-THU-001A	104.87	106.85	D		HY			2											
DDH-THU-001A	106.85	108.65	D		HY			1	0.1										
DDH-THU-001A	108.65	110.5	D		HY			0.5	0.1										
DDH-THU-001A	110.5	112.85	D		HY	0.5		0.1											111m = vein with isolated cpy on shear and in veins
DDH-THU-001A	112.85	115	F	V	HY	1		0.1	0.1										
DDH-THU-001A	115	117	D		HY		1	0.1											
DDH-THU-001A	117	119	D		HY			0.5											Green magnetic unit lower contact with MO?
DDH-THU-001A	119	120.1	D		HY		0.1	0.5											
DDH-THU-001A	120.1	122	D		HY		0.1	3	0.1										
DDH-THU-001A	122	124	V		HY		1	1			0.1			0.1					
DDH-THU-001A	124	126.08	V		HY		1	0.5			0.5			0.1					Specularite veins
DDH-THU-001A	126.08	128.33	V	D	HY			0.5			0.1			0.1					
DDH-THU-001A	128.33	130.39	BB	V	HY	1		0.1			0.5			0.5					
DDH-THU-001A	130.39	131.6	BB	V	HY	0.5		0.1			0.5								Tourmaline breccia veins
DDH-THU-001A	131.6	133.75	BB	D	HY	0.1		0.1											
DDH-THU-001A	133.75	135.88	D		HY	0.1		0.1											
DDH-THU-001A	135.88	137.71	D		HY	0.1		0.1											
DDH-THU-001A	137.71	139.7	D		HY	0.1		0.1											
DDH-THU-001A	139.7	141.78	D		HY	0.1		0.1											
DDH-THU-001A	141.78	143.7	V		HY	0.5	15				0.1			0.5					Primary chalcocite
DDH-THU-001A	143.7	145.85	D		HY		7				0.1								Trace native copper with mafic sites
DDH-THU-001A	145.85	148.28	D		HY		2				0.1								
DDH-THU-001A	148.28	150.05	BB	V	HY		1		0.1										
DDH-THU-001A	150.05	152.28	D		HY	0.5	1		0.1										
DDH-THU-001A	152.28	153.85	D		HY	1			0.1	0.1									
DDH-THU-001A	153.85	156	D	V	HY	1	3			1									
DDH-THU-001A	156	158.3	V		HY	0.5	2												
DDH-THU-001A	158.3	160	D		HY	1	2	0.1											
DDH-THU-001A	160	162.62	D		HY	0.5	2			0.1									
DDH-THU-001A	162.62	164.26	D	BB	HY		2												
DDH-THU-001A	164.26	166.35	D	CD	HY		1												
DDH-THU-001A	166.35	168.4	D		HY		1												
DDH-THU-001A	168.4	170.47	D		HY		0.1												

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-001A	170.47	172.65	D		HY		0.1												
DDH-THU-001A	172.65	173.6	D		HY		2												
DDH-THU-001A	173.6	176.48	D		HY	0.1		3											
DDH-THU-001A	176.48	177.55	D		HY		2	2											
DDH-THU-001A	177.55	179.72	D		HY			2											
DDH-THU-001A	179.72	182.05	D		HY			2											
DDH-THU-001A	182.05	184	D		HY		1	0.5											
DDH-THU-001A	184	186	D		HY		1	0.5											
DDH-THU-001A	186	188	D		HY		1	0.5											
DDH-THU-001A	188	190	D	F	HY			2											
DDH-THU-001A	190	192	D		HY		0.5	2											
DDH-THU-001A	192	194	D		HY	0.1		2											
DDH-THU-001A	194	196	D		HY			2											
DDH-THU-001A	196	198	D		HY			2											
DDH-THU-001A	198	200	D		HY			2											
DDH-THU-001A	200	202	D		HY	0.1	0.1	2											
DDH-THU-001A	202	204.67	D		HY			2											
DDH-THU-001A	204.67	207	D		HY	0.1		2											
DDH-THU-001A	207	208.91	D		HY			2											
DDH-THU-001A	208.91	211	D		HY			1											
DDH-THU-001A	211	213	D		HY			2											
DDH-THU-001A	213	215	D		HY			2											
DDH-THU-001A	215	218	D		HY			2											
DDH-THU-001A	218	220	D		HY	0.5		2											
DDH-THU-001A	220	222	D		HY			7	1										Andesite in fault
DDH-THU-001A	222	224	D		HY	0.1		2	0.1										Trace py with mafics
DDH-THU-001A	224	226	D		HY	0.1		3											
DDH-THU-001A	226	228.2	D		HY	0.1		3											
DDH-THU-001A	228.2	229.67	D		HY		0.1	2											
DDH-THU-001A	229.67	232.8	D		HY			2											
DDH-THU-001A	232.8	235	D		HY			2											
DDH-THU-002	154.5	158	D		HY														No visible mineralization
DDH-THU-002	158	160.7	D		HY				0.1										
DDH-THU-002	160.7	163	D		HY				0.5										
DDH-THU-002	163	165	D		HY														
DDH-THU-002	165	167	D		HY														
DDH-THU-002	167	169	D		HY				0.1										
DDH-THU-002	169	171	D		HY				0.1										
DDH-THU-002	171	173	D		HY	0.1			0.1										
DDH-THU-002	173	175	D		HY														
DDH-THU-002	175	177	D		HY														
DDH-THU-002	177	178.7	D		HY						0.5								Native copper with sericite altered rhyolite
DDH-THU-002	178.7	181	D		HY				0.5		0.1								
DDH-THU-002	181	181.6	D		HY				1										
DDH-THU-002	181.6	183.55	D		HY	0.5			5										Very fine grained disseminated pyrite
DDH-THU-002	183.55	185.5	V	D	HY				1										
DDH-THU-002	185.5	187	V	D	HY				1										
DDH-THU-002	187	189.92	D		HY				1										
DDH-THU-002	189.92	190.77	D		HY				0.5										
DDH-THU-002	190.77	192	D		HY	0.5			0.5										
DDH-THU-002	192	194	D		HY				1										Euhedral pyrite cubes in interval
DDH-THU-002	194	195.7	D		HY				0.5										
DDH-THU-002	195.7	197.6	D	V	HY				0.5										
DDH-THU-002	197.6	200.3	D		HY				0.5										
DDH-THU-002	200.3	202	V	D	HY				0.5										
DDH-THU-002	202	204.2	D		HY				0.5										
DDH-THU-002	204.2	206	D		HY				0.5										
DDH-THU-002	206	207.55	V	D	HY				0.5										
DDH-THU-002	207.55	209	D		HY														No visible mineralization
DDH-THU-002	209	211	D		HY														No visible mineralization

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-002	211	213	D		HY														No visible mineralization
DDH-THU-002	213	215	D		HY														No visible mineralization
DDH-THU-002	215	217	D		HY														No visible mineralization
DDH-THU-002	217	219	D		HY														No visible mineralization
DDH-THU-002	219	221	D		HY														No visible mineralization
DDH-THU-002	221	223	D		HY														No visible mineralization
DDH-THU-002	223	225	F		HY				0.1		0.1								
DDH-THU-002	225	227	F		HY				1										
DDH-THU-002	227	229	D		HY				0.1										Gougy pyrite
DDH-THU-002	229	231	D		HY				0.5										Gougy pyrite
DDH-THU-002	231	232.45	D		HY				0.5										Gougy pyrite
DDH-THU-002	232.45	233.9	D		HY				5										Euhedral pyrite in veinlets with less disseminated
DDH-THU-002	233.9	236	V	F	HY				0.5										
DDH-THU-002	236	238	F		HY				0.1										
DDH-THU-002	238	240	F	D	HY				0.1										
DDH-THU-002	240	242	D		HY				0.1										
DDH-THU-002	242	244	D		HY				0.1										
DDH-THU-002	244	246	F	D	HY				0.1										Trace pyrite on fractures
DDH-THU-002	246	249	D		HY				0.1										
DDH-THU-002	249	251	F	D	HY				0.1										
DDH-THU-002	251	253	F		HY				0.1										
DDH-THU-002	253	255	F		HY				0.5										Light grey pyrite gouge
DDH-THU-002	255	257	D		HY				0.1										
DDH-THU-002	257	259	D		HY				0.1										
DDH-THU-002	259	260.3	D	F	HY				0.1										
DDH-THU-002	260.3	262	D		HY				2										
DDH-THU-002	262	264	D		HY	0.1			2										
DDH-THU-002	264	266	D		HY			0.5	1										
DDH-THU-002	266	268	D	F	HY			0.5	0.5										
DDH-THU-002	268	270	D		HY			0.1	1										
DDH-THU-002	270	272	D		HY				0.5										
DDH-THU-002	272	274	D		HY			0.1	3										
DDH-THU-002	274	276	D		HY				3										
DDH-THU-002	276	277.13	D		HY				2										
DDH-THU-002	277.13	278.4	D	F	HY			0.1	2										
DDH-THU-002	278.4	280	B		HY				2										
DDH-THU-002	280	282	D	F	HY				3										
DDH-THU-002	282	284	D	F	HY				3										
DDH-THU-002	284	286	D	F	HY				3										
DDH-THU-002	286	288	BB	D	HY				5										
DDH-THU-002	288	290.1	D	F	HY				5										
DDH-THU-002	290.1	292	D	F	HY	0.5			1										
DDH-THU-002	292	294	D		HY	0.5			5										
DDH-THU-002	294	296	D		HY	1			1										
DDH-THU-002	296	297.55	D		HY	0.1		0.1	1										
DDH-THU-002	297.55	299	D	B	HY				3										
DDH-THU-002	299	300.65	D		HY				2										
DDH-THU-002	300.65	302.5	D		HY	0.1		0.1	10										
DDH-THU-002	302.5	304	D		HY	1			10										
DDH-THU-002	304	305.4	D		HY				7										
DDH-THU-002	305.4	307.55	D		HY				10										
DDH-THU-002	307.55	309.45	BB	D	HY	0.1			10										
DDH-THU-002	309.45	311	BB	D	HY				10										
DDH-THU-002	311	312.5	BB	D	HY				7										
DDH-THU-002	312.5	314	BB	D	HY				5										
DDH-THU-002	314	315.65	D		HY				5										
DDH-THU-002	315.65	317	D	BB	HY				5										
DDH-THU-002	317	318	D		HY				5										
DDH-THU-002	318	320	B	D	HY				5										
DDH-THU-002	320	322	D		HY				5										

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-002	322	324	D		HY	0.1			2										
DDH-THU-002	324	326	BB	D	HY				2										
DDH-THU-002	326	328	D	B	HY				2										
DDH-THU-002	328	329.35	B	D	HY				2										
DDH-THU-002	329.35	331.08	D	F	HY	0.1			3										
DDH-THU-002	331.08	332.6	BB	V	HY	7		10	1										
DDH-THU-002	332.6	334	BB	D	HY	1		2	2										
DDH-THU-002	334	335.4	D		HY				1										
DDH-THU-002	335.4	337	BB	D	HY	3		10	5										
DDH-THU-002	337	338.8	BB	D	HY	3		15	10										
DDH-THU-002	338.8	340.5	BB	SM	HY	7		20	5										
DDH-THU-002	340.5	342	BB	D	HY	3		15	10										
DDH-THU-002	342	343.5	BB	D	HY	5		15	7										
DDH-THU-002	343.5	345	BB	D	HY	0.5		7	30						5				
DDH-THU-002	345	346.5	BB	SM	HY	1		7	7						5				
DDH-THU-002	346.5	348	BB	SM	HY	1		7	5						5				
DDH-THU-002	348	349.5	BB		HY	2		5	2						2				
DDH-THU-002	349.5	351	BB		HY	0.5		5	5						15				
DDH-THU-002	351	353	BB		HY	0.5		5	5						5				
DDH-THU-002	353	354.5	BB	SM	HY	0.1		5	2						10				
DDH-THU-002	354.5	356	BB	SM	HY	0.5		5	5						15				
DDH-THU-002	356	357.84	BB		HY	0.1		7	3						7				
DDH-THU-002	357.84	359.5	BB	D	HY	0.1		7	5						1				
DDH-THU-002	359.5	361	BB	D	HY	0.5		7	3										
DDH-THU-002	361	362.5	BB		HY	3		10	2										
DDH-THU-002	362.5	364	BB		HY	2		10	2										
DDH-THU-002	364	365.5	BB		HY	3		10	2										
DDH-THU-002	365.5	367	BB		HY	0.1		7											
DDH-THU-002	367	368.5	BB	F	HY	2		5	2										
DDH-THU-002	368.5	370	BB	F	HY	5		3	5										
DDH-THU-002	370	371	BB	F	HY	2		7	3										
DDH-THU-002	371	372.65	F	BB	HY	0.1			1										
DDH-THU-002	372.65	374	BB	F	HY	5		7	1										
DDH-THU-002	374	375.7	BB	F	HY	5		7	3										
DDH-THU-002	375.7	377	BB	F	HY	5		7	3										
DDH-THU-002	377	378.8	BB	F	HY	2		7	2										
DDH-THU-002	378.8	380	F	D	HY	3		10	2										
DDH-THU-002	380	381.5	F	D	HY	3		10	2										
DDH-THU-002	381.5	383	BB	F	HY	5		10	2										
DDH-THU-002	383	384.7	D	F	HY	3		10	1										
DDH-THU-002	384.7	386.5	F	D	HY	5		5	2										
DDH-THU-002	386.5	388	F	D	HY	3		10		1									
DDH-THU-002	388	389.23	F	D	HY	2		10	1	0.5									
DDH-THU-002	389.23	391.33	F	D	HY	1		10	0.5										
DDH-THU-002	391.33	393	F	CD	HY	3		10	1										
DDH-THU-002	393	395	SM	F	HY	2		3	5										
DDH-THU-002	395	395.9	F	D	HY	0.1		5											
DDH-THU-002	395.9	397.4	D	F	HY	2		2	0.5										
DDH-THU-002	397.4	398.35	D		HY	1		0.1	1										
DDH-THU-002	398.35	400.2	D	F	HY	3		3											
DDH-THU-002	400.2	402.5	D		HY	1		3	0.1										
DDH-THU-002	402.5	404.7	D		HY	0.1		0.5	0.5										
DDH-THU-002	404.7	407.3	D		HY			1	1										
DDH-THU-002	407.3	408.55	D		HY	0.1			2										
DDH-THU-002	408.55	411.5	D		HY	0.5			0.5										
DDH-THU-002	411.5	412.8	F	D	HY	0.1		0.1	0.5										
DDH-THU-002	412.8	415	F		HY	2		0.1	3										
DDH-THU-002	415	417	SM	F	HY	10		10	3										
DDH-THU-002	417	419	D		HY			3	5										
DDH-THU-002	419	421.23	D		HY			3	3										

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-002	421.23	423.5	D					3											
DDH-THU-002	423.5	425.25	D					3											
DDH-THU-002	425.25	426	D					3											
DDH-THU-002	426	428	D					1											
DDH-THU-002	428	430	D					2											
DDH-THU-002	430	432	D					2											
DDH-THU-002	432	434	D					1											
DDH-THU-002	434	436	D					2											
DDH-THU-002	436	438	D					3											
DDH-THU-002	438	440	D					3											
DDH-THU-002	440	442	D					3											
DDH-THU-002	442	444	D					3											
DDH-THU-002	444	446	D					3											
DDH-THU-002	446	448.06	D					3											
DDH-THU-003	2.4	3.87	D	F	HY	1		5					0.5						
DDH-THU-003	3.87	5.3	MSV	F	HY	3		20											Massive tourmaline + chalcopyrite + magnetite breccia
DDH-THU-003	5.3	7	D			0.1		3											
DDH-THU-003	7	9	D			0.1		2											
DDH-THU-003	9	11	D			0.1		2											
DDH-THU-003	11	13	D			0.1		2											
DDH-THU-003	13	15	D			0.1		2		0.1									Trace bornite specks
DDH-THU-003	15	17	D			0.5		2											
DDH-THU-003	17	19	D			0.1		2											
DDH-THU-003	19	21	D			0.1		2											
DDH-THU-003	21	23	D					2											
DDH-THU-003	23	25	D					2											
DDH-THU-003	25	27	D					2											
DDH-THU-003	27	29	D					2											
DDH-THU-003	29	31	D					2											
DDH-THU-003	31	33	D			0.1		2											
DDH-THU-003	33	35	D					2											
DDH-THU-003	35	36.25	D					2											
DDH-THU-003	36.25	38.2	D																
DDH-THU-003	38.2	40.3	D					5											
DDH-THU-003	40.3	42	D					2											
DDH-THU-003	42	44.05	D					2											
DDH-THU-003	44.05	46	D					2											
DDH-THU-003	46	48	D					1											
DDH-THU-003	48	50	D					2											
DDH-THU-003	50	52	D					2											
DDH-THU-003	52	54	D					2											
DDH-THU-003	54	56	D					2											
DDH-THU-003	56	58	D			0.1		2											
DDH-THU-003	58	60	D			0.1		2											
DDH-THU-003	60	62	D					2											
DDH-THU-003	62	64	D			0.1		2											
DDH-THU-003	64	66	D					2											
DDH-THU-003	66	68	D					2											
DDH-THU-003	68	70	D					2											
DDH-THU-003	70	72	D					2											
DDH-THU-003	72	74	D					2											
DDH-THU-003	74	76	D					3											
DDH-THU-003	76	78	D					3											
DDH-THU-003	78	80	D			0.1		3											
DDH-THU-003	80	82	D					3											
DDH-THU-003	82	84	D					3											
DDH-THU-003	84	86	D					3											
DDH-THU-003	86	88	D					3											
DDH-THU-003	88	90	D					3											
DDH-THU-003	90	92	D					3											

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-003	92	94	D					3											
DDH-THU-003	94	96	D					3											
DDH-THU-003	96	98	D			0.5		3											
DDH-THU-003	98	100	D			0.5		3											
DDH-THU-003	100	102	D			0.5		1											Weakly developed chlorite shear fabric + chalcopyrite shear zone
DDH-THU-003	102	104	D			0.1		2											Hairline fracture cpy
DDH-THU-003	104	106	D					3											
DDH-THU-003	106	108	D					3											
DDH-THU-003	108	110	D					3											
DDH-THU-003	110	112	D					3											
DDH-THU-003	112	114	D					3											
DDH-THU-003	114	116	F	D		0.5		3											
DDH-THU-003	116	118	D					3		0.1									
DDH-THU-003	118	120	D					3											
DDH-THU-003	120	122	D					3											
DDH-THU-003	122	124	D					3											
DDH-THU-003	124	126	D			0.5		3											
DDH-THU-003	126	128	D					3											
DDH-THU-003	128	130	D					3											
DDH-THU-003	130	132	D					3											
DDH-THU-003	132	134	D					3											
DDH-THU-003	134	136.25	D					3											
DDH-THU-004	2.44	4.22	MSV	F	HY	2		20					0.5						Malachite on margins of chalcopyrite
DDH-THU-004	4.22	6	D			0.1		1											
DDH-THU-004	6	8	D					2											
DDH-THU-004	8	10	D			0.1		1											Carbonate vein breccia
DDH-THU-004	10	12	D					1											
DDH-THU-004	12	14	D					2											
DDH-THU-004	14	16	D					3											
DDH-THU-004	16	18	D			0.5		2											
DDH-THU-004	18	20	D			0.5		2											
DDH-THU-004	20	22	D					2											
DDH-THU-004	22	24	D					2											
DDH-THU-004	24	26	D			0.1		2											
DDH-THU-004	26	27.5	D					2											
DDH-THU-004	27.5	29	D					2											
DDH-THU-004	29	31	D					2											
DDH-THU-004	31	33	D																
DDH-THU-004	33	34.25	D																
DDH-THU-004	34.25	35.3	D			0.7		2											
DDH-THU-004	35.3	37	D					2											
DDH-THU-004	37	39	D					2											
DDH-THU-004	39	41	D			0.1		2											
DDH-THU-004	41	43	D			0.1		2											
DDH-THU-004	43	45	D					2											
DDH-THU-004	45	47	D					2											
DDH-THU-004	47	49	D					2											
DDH-THU-004	49	51	D					2											
DDH-THU-004	51	53	D					2											
DDH-THU-004	53	55	D					2											
DDH-THU-004	55	57	D					2											
DDH-THU-004	57	59	D					2											
DDH-THU-004	59	61	D					2											
DDH-THU-004	61	63	D					2											
DDH-THU-004	63	65	D					2											
DDH-THU-004	65	67	D					2											
DDH-THU-004	67	69	D					2											
DDH-THU-004	69	71	D					2											
DDH-THU-004	71	73.25	D					2											
DDH-THU-004	73.25	75	D					2											

HoleId	From	To	Style	Style2	Zone	CpPer	SC	MtPer	PyPer	BoPer	CuPer	AZ	ML	CcPer	PO	EXTRA1	EXTRA2	EXTRA3	Comments
DDH-THU-004	75	77	D					2											
DDH-THU-004	77	79	D					2											
DDH-THU-004	79	81	D					2											
DDH-THU-004	81	83	D					2											
DDH-THU-004	83	85	D					2											
DDH-THU-004	85	87	D					5											
DDH-THU-004	87	89	D					5											
DDH-THU-004	89	91	D					5											
DDH-THU-004	91	93	D					2											
DDH-THU-004	93	95	D					2											
DDH-THU-004	95	97	D					2											
DDH-THU-004	97	99	D					2											
DDH-THU-004	99	101	D					2											
DDH-THU-004	101	103	D					2											
DDH-THU-004	103	105	D					2											
DDH-THU-004	105	107	D					2											
DDH-THU-004	107	109	D					2											
DDH-THU-004	109	111	D					2											
DDH-THU-004	111	113	D			0.5		2											
DDH-THU-004	113	115	D			0.5		2	0.1										
DDH-THU-004	115	117	D			0.5		2											
DDH-THU-004	117	119	D			0.5		2											
DDH-THU-004	119	121	D			0.1		2		0.1									
DDH-THU-004	121	123	D					2											
DDH-THU-004	123	125	D					2											
DDH-THU-004	125	127	D					2											
DDH-THU-004	127	129	D					2											
DDH-THU-004	129	131	D					2											
DDH-THU-004	131	133	D					2											
DDH-THU-004	133	135	D					2											
DDH-THU-004	135	137	D					2											
DDH-THU-004	137	139	D					2											
DDH-THU-004	139	141	D					2											
DDH-THU-004	141	143	D					2											
DDH-THU-004	143	145	D					2											
DDH-THU-004	145	147	D					2											
DDH-THU-004	147	149	D					2											
DDH-THU-004	149	151	D					2											
DDH-THU-004	151	153	D					2											
DDH-THU-004	153	155	D					2											
DDH-THU-004	155	157	D					2											
DDH-THU-004	157	159	D					2											
DDH-THU-004	159	161	D					2											
DDH-THU-004	161	162.5	D					2											
DDH-THU-004	162.5	163.88	D			0.1		2											

Hole_ID	Depth	Type	Alpha	Infill	Width (metres)	Comments
DDH-THU-001	7.85	DYK	10			Upper contact of andesite dyke - possible fault fragment; dyke strongly magnetic relative to diorite uphole; lower contact fault
DDH-THU-001	11	DYK	20		0.3	Pegmatite dyke with quartz + magnetite
DDH-THU-001	11.5	DYK	20			Upper contact of andesite dyke -
DDH-THU-001	13.4	DYK	20		0.03	Pegmatite dyke; broken and within fault zone
DDH-THU-001	15.1	FA	70	LI	0.03	Limonite + calcite + hematite gouge separates specularite skarn altered zone up hole from chlorite altered diorite downhole
DDH-THU-001	17.5	VEN	75	GT	0.04	Garnet vein? / alteration zone with bluish albite alteration matrix and trace pyrite + hematite + native copper
DDH-THU-001	18	DYK	30		0.1	Pegmatite dyke with trace pyrite rimmed by hematite
DDH-THU-001	20.7	VEN	40	QZ	0.02	Possibly pegmatite; trace chalcopyrite on margins of dyke
DDH-THU-001	21.56	CTC	80		0.01	Alteration front between specularite zone down hole and propylitic altered diorite uphole; possible clast boundary
DDH-THU-001	23.12	VEN	55	EP	0.02	Epidote + calcite
DDH-THU-001	25.2	CTC	40	KS	0.01	Alteration contact between kspar + epidote uphole and actinolite +specularite skarn downhole. Native copper + specularite + pyrite visible on margins of front in actinolite zone
DDH-THU-001	25.3	DYK	50		0.02	Pegmatite; questionable; may just be clast
DDH-THU-001	27.2	VEN	0	HE	0.01	Brick red hematite vein with brownish stained amhiboles surrounding veinlet
DDH-THU-001	27.6	VEN	60	EP	0.01	Epidote + limonite
DDH-THU-001	27.61	LN	30	FS	30	Faint foliation in altered unit
DDH-THU-001	33.55	CTC	60	KS	0.01	Kspar altered zone uphole and specularite skarn alteration downhole
DDH-THU-001	33.8	VEN	10	SC	0.04	Specularite + native copper vein runs for 40 cm in core
DDH-THU-001	37.33	CTC	25	SC	0.01	Alteration contact between epidote + Kspar altered zone downhole and QSP zone uphole
DDH-THU-001	40.9	VEN	10	LI	0.05	Limonite vein with hematite cubes and trace native copper
DDH-THU-001	41.7	VEN	25	CU	0.05	Native copper + specularite vein with limonite staining
DDH-THU-001	43.7	VEN	60	KS	0.06	Kspar + epidote vein with pyrite pseudomorphs after actinolite
DDH-THU-001	45.1	CTC	20	EP	0.01	Alteration front between epidote (uphole) and actinolite downhole
DDH-THU-001	46.8	CTC	35	EP	0.01	Alteration front between epidote uphole and QSP downhole
DDH-THU-001	47.5	VEN	20	SC	0.05	Specularite + limonite alteration surrounding fragment of remnant diorite
DDH-THU-001	56.77	CTC	25	EP	0.01	Chlorite + epidote alteration front into biotite + chlorite zone
DDH-THU-001	59.36	VEN	20	QZ	0.02	Quartz vein with trace py + cpy
DDH-THU-001	62.5	VEN	20	QZ	0.03	Quartz + epidote + Kspar
DDH-THU-001	68	VEN	30	AB	0.2	Albite + quartz vein with chalcopyrite at lower contact
DDH-THU-001	75.2	DYK	15		0.02	Calcite pebble dyke
DDH-THU-001	78.2	VEN	60	AB	0.02	
DDH-THU-001A	13.5	DYK	70		0.1	Lower contact to 10 cm monzonite dyke
DDH-THU-001A	13.9	VEN	45	QZ	0.01	Lower contact quartz vein between andesite dyke uphole and diorite downhole
DDH-THU-001A	14.9	VEN	55	QZ	0.01	Tooth-like quartz + calcite veinlet
DDH-THU-001A	15.7	DYK	45		0.01	Lower contact of crowded plagioclase porphyry dyke with diorite downhole
DDH-THU-001A	17.9	DYK	30		0.3	Lower contact of 30 cm wide pegmatite dyke
DDH-THU-001A	21.5	VEN	40	CT	0.01	Calcite vein with limonite halo
DDH-THU-001A	22.2	VEN	20	HE	0.01	Hematite + epidote +/- kspar vein
DDH-THU-001A	24.2	FA	60	CT	0.1	Calcite > epidote fault gouge zone
DDH-THU-001A	26.5	CTC	40	PY	0.01	Alteration front between limonite zone uphole and QSP downhole
DDH-THU-001A	27.88	DYK	80		0.2	Lower contact of 20 cm pegmatite dyke
DDH-THU-001A	31.8	DYK	30		0.01	Upper contact of chloritized diorite
DDH-THU-001A	42	CTC	20	PY	0.01	Alteration front (clast?) between QSP uphole and biotite + magnetite diorite downhole
DDH-THU-001A	44.1	DYK	40		0.01	Lower contact of pegmatite dyke (possible clast?)
DDH-THU-001A	47	CTC	45	PY	0.01	Alteration front between hematite zone uphole and QSP downhole
DDH-THU-001A	52.75	FA	35	CL	0.01	Upper contact of gougy fault zone
DDH-THU-001A	55.5	DYK	15		0.2	Pegmatite vein with spotty chalcocite
DDH-THU-001A	59.4	DYK	40		0.15	15 cm pegmatite vein with 1% chalcopyrite
DDH-THU-001A	61.2	VEN	25	QZ	0.02	Trace blebby pyrite
DDH-THU-001A	62.2	VEN	65	QZ	0.01	Quartz + trace cpy + actinolite
DDH-THU-001A	63.3	DYK	35		0.25	Pegmatite + actinolite dyke
DDH-THU-001A	64.9	DYK	70		0.2	Plag porphyry dyke
DDH-THU-001A	65.9	VEN	25	QZ	0.2	Quartz + actinolite + muscovite vein
DDH-THU-001A	67	DYK	35		0.15	Pegmatite breccia with angular diorite clasts
DDH-THU-001A	69.15	VEN	15	CT	0.01	Pink + beige calcite veinlet
DDH-THU-001A	73	DYK	30		0.3	Monzonite + pegmatite dyke; lower contact alteration front at lower contact
DDH-THU-001A	79	VEN	35	QZ	0.15	Quartz + epidote vein with trace cpy; lower contact at 35 dTCA
DDH-THU-001A	82.2	VEN	65	QZ	0.1	Quartz/pegmatite + chlorite vein
DDH-THU-001A	83.6	VEN	70	AC	0.01	Actinolite veinlet
DDH-THU-001A	85.8	FA	40	CL	0.1	Chlorite + hematite + calcite
DDH-THU-001A	90.7	DYK	60		0.1	Pegmatite dyke
DDH-THU-001A	91	VEN	15	CT	0.1	Calcite veinlet subparallel tCA

Hole_ID	Depth	Type	Alpha	Infill	Width (metres)	Comments
DDH-THU-001A	98.5	LN	15	BT	1	Biotite + feldspar foliation for approximately 1 metre from 98-99m
DDH-THU-001A	99.2	DYK	35		0.01	Greywacke dyke?; aphanitic; fg; equigranular
DDH-THU-001A	105.35	DYK	50		0.05	Pegmatite + actinolite dyke with epidote margins
DDH-THU-001A	108.5	VEN	30	CL	0.01	Chlorite + calcite veinlets
DDH-THU-001A	110.5	VEN	80	QZ	0.05	White bull quartz vein
DDH-THU-001A	113	FA	20	CL	3	Chlorite fault zone; dominant angle
DDH-THU-001A	119.2	VEN	25	CL	0.01	Black chlorite vein
DDH-THU-001A	119.75	VEN	50	CL	0.1	Calcite + chlorite + Kspar vein
DDH-THU-001A	121.05	DYK	75		0.2	Upper contact of aphanitic andesite? dyke
DDH-THU-001A	122.4	VEN	40	HE	0.01	Red hematite veinlets
DDH-THU-001A	124.1	VEN	20	SC	0.01	Specularite rimmed by epidote
DDH-THU-001A	126.7	LN	50	QZ	0.5	Laminations of dark grey and light silica
DDH-THU-001A	128.7	VEN	15	SC	0.4	Specularite vein follows same structure as calcite and precedes tourmaline breccia zone
DDH-THU-001A	131.2	VEN	10	TM	0.2	Tourmaline breccia vein with chalcopyrite + native copper
DDH-THU-001A	135.9	VEN	30	CL	0.01	Black chlorite veinlet
DDH-THU-001A	137.4	DYK	30		0.1	Monzonite dyke with primary specularite
DDH-THU-001A	141.9	VEN	25	SC	0.2	Massive specularite vein
DDH-THU-001A	144.6	VEN	25	SC	0.1	Specularite + calcite vein in epidote altered zoe
DDH-THU-001A	148	VEN	40	CT	0.04	Calcite + chlorite vein with angular fragments
DDH-THU-001A	150	VEN	35	SC	0.01	Specularite + epidote + calcite vein
DDH-THU-001A	153.85	VEN	60	QZ	1	Quartz + tourmaline + chalcopyrite + bornite + kspar (margins) vein; brecciated
DDH-THU-001A	159.9	VEN	20	CT	0.01	Vuggy calcite vein
DDH-THU-001A	162.7	VEN	40	SC	0.01	Specularite gash veinlets
DDH-THU-001A	164.25	FA	40	CL	0.1	Lower contact of sheared fault
DDH-THU-001A	166.65	VEN	25	TM	0.4	Tourmaline vein upper contact; minor fault
DDH-THU-001A	170.5	VEN	80	KS	0.01	Kspar veinlets in diorite; approximately 7 total spaced 2-10 cm apart
DDH-THU-001A	176.4	DYK	30		0.5	Lower contact of Monzonite Dyke
DDH-THU-001A	178.1	VEN	50	KS	0.02	Kspar vein showing left lateral shift
DDH-THU-001A	182.9	VEN	50	EP	0.01	Epidote vein in monzonite dyke
DDH-THU-001A	187.9	CTC	40		0.01	Monzonite (uphole); diorite (downhole) contact
DDH-THU-001A	192.9	VEN	60	QZ	0.1	Quartz + tourmaline (upper contact) vein
DDH-THU-001A	195.25	DYK	60		0.1	Pegmatite dyke; lower contact measurement
DDH-THU-001A	199	VEN	55	QZ	0.1	Quartz + tourmaline vein
DDH-THU-001A	203.3	VEN	30	KS	0.05	Kspar vein within fault zone
DDH-THU-001A	208.9	FA	20	CL	0.2	20 cm fault zone with chlorite gouge
DDH-THU-001A	211.9	DYK	35		0.01	Moznonite (downhole); diorite (uphole) contact
DDH-THU-001A	214.5	VEN	45	CT	0.05	Calcite+quartz vein
DDH-THU-002	159.5	FA	35	EP	0.01	Fault within epidote altered zone downhole and minor chlorite uphole
DDH-THU-002	160	VEN	65	KS	0.01	Bleached light pink kspar vein cutting epidote altered interval
DDH-THU-002	170.5	FA	20	SR	0.01	Fault plane with sericite
DDH-THU-002	178.2	JN	25	CU	0.01	Native copper + chlorite on fracture plane
DDH-THU-002	181	JN	5	HE	0.01	Hematite +/- native copper on fracture plane within strongly sericite altered intervals
DDH-THU-002	184.2	VEN	30	PY	0.01	Late pyrite veinlets within rhyolite
DDH-THU-002	186.2	FA	75	PY	0.01	Upper contact of faulted pyrite-rich interval
DDH-THU-002	190.5	FA	50	CL	0.01	Chlorite faulted zone leading to oxidized interval downhole
DDH-THU-002	193.2	VEN	45	PY	0.01	Pyrite gouge veinlets within fault zone
DDH-THU-002	198.1	CTC	40		0.01	Contact between pyrite zone uphole and oxidized zone downhole
DDH-THU-002	200.8	VEN	30	CT	0.01	Calcite veinlet - late
DDH-THU-002	203.2	FA	60	LI	0.10	Lower contact of gougy limestone fault interval
DDH-THU-002	204.3	CTC	55		0.01	Contact between sedimentary units with fine matrix conglomerate unit downhole
DDH-THU-002	207.55	CTC	40		0.01	contact between oxidized conglomerate uphole and limestone downhole
DDH-THU-002	209.8	VEN	15	QZ	0.02	Quartz vein cutting limestone unit
DDH-THU-002	210.5	VEN	45	CL	0.01	Chlorite stringers
DDH-THU-002	215.8	VEN	40	HE	0.01	Hematite stringers through limestone
DDH-THU-002	219	VEN	50	LI	0.02	Calcite + limonite breccia vein
DDH-THU-002	222.2	VEN	25	CT	0.01	Black calcite veinlet stringers
DDH-THU-002	225.2	FA	20	CY	0.01	Silty-sandy clay gouge zone
DDH-THU-002	229.6	SH	20	CL	0.10	Chlorite shear
DDH-THU-002	233.9	CTC	25	CY	0.01	Lowercontact of clay-rich fault zone
DDH-THU-002	234.5	VEN	5	PY	0.01	Pyrite veinlets trend subparallel tCA
DDH-THU-002	237.5	JN	40	SR	0.01	Light green sericite alteration halo
DDH-THU-002	239.7	SH	15	CY	0.01	Clay shear zone within limestone
DDH-THU-002	242.3	JN	15	CY	0.01	Clay on joint
DDH-THU-002	245.8	SH	15	CY	0.01	Lower contact of clay shear zone
DDH-THU-002	251.1	VEN	60	CY	0.01	Black clay veinlet

Hole_ID	Depth	Type	Alpha	Infill	Width (metres)	Comments
DDH-THU-002	254.5	JN	35	PY	0.01	Pyrite gouge on fracture plane
DDH-THU-002	256.3	JN	55	PY	0.01	Pyrite gouge on fracture plane
DDH-THU-002	262.9	CTC	25		0.01	Massive limestone in contact with greywacke interval uphole; faulted block zone
DDH-THU-002	266	LN	15	AB	0.01	Approximate orientation of garnet-albite skarn banding
DDH-THU-002	267.9	JN	40	CL	0.01	Chlorite infill along joints - late
DDH-THU-002	270	JN	20	CL	0.02	Chlorite + pyrite along fracture plane
DDH-THU-002	272.7	LN	30	GT	0.05	Garnet banding within skarn zone
DDH-THU-002	276	JN	30	CL	0.01	Chlorite + pyrite on fracture surface
DDH-THU-002	280.05	VEN	5	AB	0.02	Bluish albite vein/alteration band within garnet skarn
DDH-THU-002	284.1	LN	20	AB	1	Albite banding within garnet skarn zone
DDH-THU-002	287.3	VEN	20	CA	0.02	Qtz + carb vein cutting banded skarn zone
DDH-THU-002	290	LN	25	EP	0.01	Lower contact of epidote overprinting on garnet skarn
DDH-THU-002	290.35	LN	30	AB	0.1	Albite + garnet banding within skarn zone
DDH-THU-002	292.9	VEN	25	PY	0.01	Pyrite vein within epidote altered zone
DDH-THU-002	294.5	LN	25	EP	0.2	Epidote banded zone overprinting garnet skarn
DDH-THU-002	299.5	LN	15	AB	0.1	"zebra stripes" with albite + garnet in garnet skarn zone
DDH-THU-002	300.7	CTC	15	EP	0.01	Qtz vein zone in contact with epidote altered zone at 15 dtca
DDH-THU-002	305.4	VEN	20	PY	0.01	Late stage py +/- cpy vein cutting pyrite + epidote altered zone
DDH-THU-002	308	LN	15	AB	0.1	Albite + garnet + epidote lineation within skarn zone
DDH-THU-002	311	VEN	25	PY	0.01	Pyrite veinlets through skarn zone
DDH-THU-002	314.7	LN	15	GT	0.01	Garnet lineation within skarn zone
DDH-THU-002	317.7	VEN	15	CA	0.02	Quartz + carbonate vein with massive cubic pyrite + magnetite - continues for approximately 30 cm in core
DDH-THU-002	318.6	LN	20	AB	0.02	Albite + garnet bands within garnet + pyrite skarn zone
DDH-THU-002	321.4	VEN	25	CA	0.01	Late quartz + carbonate vein with epidote alteration halo cutting primary albite + garnet skarn banding
DDH-THU-002	322.7	VEN	35	KS	0.01	Kspar veinlet bringing in chalcopyrite after primary garnet skarn alteration
DDH-THU-002	324.6	VEN	35	EP	0.05	Epidote + trace chalcopyrite alteration cutting primary garnet skarn alteration
DDH-THU-002	326.6	LN	35	GT	0.01	Garnet skarn banding
DDH-THU-002	331.08	CTC	55	CL		Contact between garnet + pyrite skarn uphole and epidote + actinolite + magnetite + chalcopyrite skarn downhole
DDH-THU-002	332.3	VEN	50	MT	0.04	Magnetite vein with 3 cm gobs of chalcopyrite brecciated within vein
DDH-THU-002	335.5	VEN	55	CP	0.03	Chalcopyrite vein zone showing right lateral displacement
DDH-THU-002	336	VEN	10	CT	0.01	Late tension crack calcite veinlets
DDH-THU-002	339.35	VEN	35	QZ	0.01	Quartz + chalcedony veinlet cross-cut and offset right-laterally by calcite veinlet within magnetite + chalcopyrite zone
DDH-THU-002	341.9	JN	15	MT	0.01	Magnetite veinlets with small tension gashes repeated throughout veinlet
DDH-THU-002	343.5	LN	20	EP	0.1	Epidote banding zone cut by late biotite +/- magnetite veinlets
DDH-THU-002	344.5	VEN	20	PY	0.2	Semi-massive pyrite > chalcopyrite +/- pyrrhotite vein with magnetite + calcite infill. Pyrite is cube-shaped through the interval
DDH-THU-002	345.3	VEN	20	QZ	0.1	Jigsaw breccia texture; replacement of pyroxene? by quartz (hexagonal shape) with matrix of black biotite +/- calcite
DDH-THU-002	347.4	LN	35	EP	0.1	Epidote banding zone; with biotite
DDH-THU-002	347.5	VEN	30	QZ	0.01	Late chalcedony +/- calcite veinlets
DDH-THU-002	350.3	VEN	80	PO	0.2	Massive pyrrhotite > pyrite > chalcopyrite vein/replacement zone with interstitial magnetite. Pyrrhotite has cobweb-like texture. Late chlorite +/- magnetite gash veinlets run through main vein at angles between 15-35 dtCA
DDH-THU-002	352.7	VEN	30	CT	0.01	Calcite veinlet network
DDH-THU-002	359.8	VEN	20	CA	0.02	Quartz + calcite vein
DDH-THU-002	363.8	LN	15	EP	0.1	Epidote banding within skarn zone
DDH-THU-002	366	LN	40	EP	0.1	Epidote banding within skarn zone
DDH-THU-002	369	FA	15	CL	0.2	Upper contact of chlorite + pyrite rich gouge zone
DDH-THU-002	371.35	LN	25	EP	0.1	Epidote banding within skarn zone
DDH-THU-002	376.5	LN	35	GT	0.1	Garnet + epidote banded zone
DDH-THU-002	382.2	LN	35	CA	0.1	Carbonate banding within skarn zone
DDH-THU-002	384.7	VEN	5	QZ	30	Quartz + magnetite + massive chalcopyrite vein; runs approximately sub-parallel to core axis
DDH-THU-002	388.5	VEN	35	QZ	0.02	White en echelon quartz veinlets paralelling epidote banding
DDH-THU-002	391	LN	30	EP	0.01	Epidote banding
DDH-THU-002	393.6	VEN	45	PY	0.06	Massive pyrite + chalcopyrite vein
DDH-THU-002	394.3	LN	35	AB	0.02	Approximate orientation of albite? banding...possibly secondary enrichment?
DDH-THU-002	395.9	CTC	25	EP	0.01	Contact between carbonate altered unit uphole and epidote alteration downhole
DDH-THU-002	398.25	CTC	10	EP	0.01	Epidote zone downhole; carbonate zone uphole
DDH-THU-002	401.6	LN	25	EP	0.3	Epidote banding
DDH-THU-002	405.3	LN	30	GT	0.15	Garnet + albite wash - lineations - secondary enrichment
DDH-THU-002	408.3	VEN	35	MT	0.15	Magnetite + epidote vein
DDH-THU-002	412.4	VEN	10	CT	0.1	Quartz + calcite vein cutting altered greywacke
DDH-THU-002	415.5	VEN	30	CP	0.04	Chalcopyrite + pyrite vein

Hole_ID	Depth	Type	Alpha	Infill	Width (metres)	Comments
DDH-THU-002	416.8	VEN	35	CP	0.2	Massive chalcopyrite + pyrite vein
DDH-THU-002	420.1	SH	45		0.01	Shear within basalt/andesite dyke unit
DDH-THU-002	425.2	CTC	50		0.01	Contact between sheared andesite downhole and fault breccia uphole
DDH-THU-002	428.5	VEN	25	CT	0.02	Calcite vein within gougy diorite unit
DDH-THU-003	4.5	BXK	15	CP	0.01	Chalcopyrite crackle brecciation within tourmaline + quartz zone
DDH-THU-003	7.7	SH	10	CT	0.01	Calcite gouge shear
DDH-THU-003	10.6	VEN	40	KS	0.01	Kspar + hematite veinlets
DDH-THU-003	13.2	VEN	35	KS	0.01	Kspar + hematite veinlets
DDH-THU-003	18	VEN	30	CT	0.01	Calcite + kspar + trace bornite blebs in vein
DDH-THU-003	20.6	JN	10	CL	0.01	Chlorite fracture fill + epidote + kspar halo
DDH-THU-003	25.3	JN	25	KS	0.01	Kspar halo
DDH-THU-003	27.5	JN	25	CL	0.01	Chlorite with kspar halo along fracture
DDH-THU-003	29.4	VEN	30	CT	0.01	Calcite haloed by epidote
DDH-THU-003	32.1	VEN	30	KS	0.02	Kspar haloed by calcite
DDH-THU-003	36.4	VEN	40	CT	0.01	Calcite veinlet following same trend of massive alteration in area
DDH-THU-003	37.4	VEN	25	CL	0.05	Chlorite vein zone
DDH-THU-003	39.7	VEN	45	KS	0.01	Kspar veinlets cross-cutting altered diorite
DDH-THU-003	43.3	VEN	20	EP	0.60	Massive epidote vein
DDH-THU-003	47.3	VEN	15	CT	0.40	Calcite + chlorite + hematite vein with lesser quartz
DDH-THU-003	50.3	BXK	50	CT	0.40	Calcite crackle breccia with pinkish halos
DDH-THU-003	54.6	VEN	25	CT	0.02	Calcite vein with chlorite halo
DDH-THU-003	57.6	VEN	10	CT	0.02	Calcite + chlorite + sericite vein
DDH-THU-003	59.7	VEN	30	KS	0.01	En echleon kspar veinlets for approximately 20 cm
DDH-THU-003	63.7	VEN	15	CT	0.02	Calcite with kspar + chlorite halos
DDH-THU-003	70.4	VEN	25	CT	0.01	Stepped calcite vein with kspar alteration halo
DDH-THU-003	74.3	VEN	35	CT	0.01	Cross-cutting calcite veins with kspar halo
DDH-THU-003	78.8	VEN	10	CT	0.01	Calcite vein
DDH-THU-003	80.8	DYK	80		0.05	Pegmatite dyke
DDH-THU-003	84	BXK	70	CT	0.02	Pink calcite crackle breccia zone
DDH-THU-003	86.6	VEN	20	EP	0.01	Epidote veinlet crosscut by later calcite veinlets
DDH-THU-003	92.1	VEN	30	EP	0.03	Epidote + calcite vein with pink halo
DDH-THU-003	93.7	VEN	45	CA	0.02	Ankerite? vein
DDH-THU-003	98	VEN	20	CL	0.01	Chlorite vein with trace blebby cpy
DDH-THU-003	101.5	VEN	5	EP	0.01	Epidote vein running approximately subparallel tCA
DDH-THU-003	102.8	VEN	30	EP	0.10	Massive epidote vein
DDH-THU-003	106.4	VEN	50	CT	0.01	Calcite with pink kspar halo
DDH-THU-003	110.3	VEN	55	CT	0.01	Pink calcite veinlets
DDH-THU-003	111	VEN	80	CT	0.01	Calcite veinlet
DDH-THU-003	114.7	VEN	10	EP	0.01	Epidote veinlets with alteration halo
DDH-THU-003	117.5	VEN	40	CT	0.01	Calcite vein with epidote uphole of apex of vein
DDH-THU-003	122.4	VEN	15	EP	0.01	Stepped epidote vein
DDH-THU-003	124.5	VEN	10	EP	0.01	Epidote vein with chlorite halo
DDH-THU-003	128.7	VEN	10	EP	0.02	Epidote + chlorite halo
DDH-THU-003	131	VEN	10	CT	0.02	Calcite + epidote +kspar halo
DDH-THU-003	134.7	VEN	30	EP	0.1	Epidote vein
DDH-THU-004	3.8	VEN	35	QZ	0.02	Quartz vein within tourmaline + chalcopyrite breccia
DDH-THU-004	7	VEN	60	CT	0.01	Kspar + calcite pod veinlets
DDH-THU-004	9.7	VEN	20	CT	0.02	Calcite vein with epidote + chlorite rims
DDH-THU-004	12.4	VEN	40	CT	0.01	Calcite + kspar vein
DDH-THU-004	17	VEN	20	CL	0.01	Chlorite + magnetite veinlet with epidote + kspar halo
DDH-THU-004	19.8	VEN	10	KS	0.02	Kspar + epidote haloes
DDH-THU-004	22.9	VEN	15	CL	0.01	Chlorite veinlet with bleached halo
DDH-THU-004	25.6	VEN	40	TM	0.02	Tourmaline vein with chalcopyrite + kspar halo
DDH-THU-004	27.9	VEN	20	QZ	0.05	Grey quartz + calcite vein with epidote bleaching
DDH-THU-004	32.3	VEN	35	QZ	0.02	White quartz veining cutting in bleached aplite dike unit
DDH-THU-004	35	VEN	55	KS	0.01	Kspar veins cutting earlier 20 degree chlorite vein
DDH-THU-004	36.3	VEN	20	EP	0.02	Epidote + sericite vein
DDH-THU-004	39.4	VEN	30	EP	0.04	Massive epidote vein with magnetite + trace pyrite
DDH-THU-004	43.5	VEN	20	EP	0.05	Massive epidote vein; follows same orientation as kspar veinlets
DDH-THU-004	45.2	VEN	30	KS	0.02	Kspar + calcite vein
DDH-THU-004	47.7	VEN	25	KS	0.01	Kspar + calcite vein
DDH-THU-004	53	VEN	65	CT	0.03	Calcite vein with carbonate bleaching
DDH-THU-004	57.3	VEN	70	KS	0.3	Kspar veining/pegmatite? dyke...chlorite along fractures through interval; trace chalcopyrite
DDH-THU-004	61.9	BXK	10	KS	0.1	Kspar + calcite vein breccia
DDH-THU-004	62.7	DYK	80		0.04	Pegmatite dyke

Hole_ID	Depth	Type	Alpha	Infill	Width (metres)	Comments
DDH-THU-004	65.4	VEN	25	CT	0.02	Hematite + calcite + pyrite + chlorite vein
DDH-THU-004	70.15	VEN	35	EP	0.01	Epidote + quartz vein
DDH-THU-004	72.95	VEN	25	CT	0.01	Epidote + calcite vein
DDH-THU-004	75.7	VEN	50	CT	0.02	Calcite vein with kspar halo
DDH-THU-004	76.9	VEN	60	EP	0.01	Epidote + quartz vein
DDH-THU-004	80.4	BXK	60	CT	0.1	Calcite vein breccia zone
DDH-THU-004	84.35	BXK	40	CT	0.1	Calcite vein breccia with kspar halo zone
DDH-THU-004	85.3	BXK	40	CT	0.05	Calcite vein breccia with kspar halo
DDH-THU-004	89.35	VEN	50	EP	0.03	Massive epidote vein with bleaching downhole
DDH-THU-004	94.25	VEN	35	KS	0.01	Cross-cutting kspar veinlets
DDH-THU-004	97.1	VEN	55	KS	0.01	Kspar veinlets showing right lateral offset
DDH-THU-004	98.3	BXK	30	CT	0.2	Calcite + kspar vein breccia with epidote + diorite clast fragments
DDH-THU-004	103.3	VEN	35	EP	0.1	Lower contact of epidote + calcite vein zone with kspar veinlets
DDH-THU-004	104.9	VEN	50	EP	0.05	Upper contact of epidote vein with interlocking garnets?
DDH-THU-004	108.5	VEN	5	CT	0.02	Calcite vein with kspar halo
DDH-THU-004	110.6	VEN	35	CT	0.02	Calcite vein zone with epidote halo
DDH-THU-004	112.5	VEN	15	EP	0.01	Epidote vein with 0.5% blebby cpy
DDH-THU-004	115.8	VEN	15	EP	0.01	Epidote vein with trace blebby cpy and kspar halo
DDH-THU-004	118.2	VEN	10	EP	0.01	Epidote vein with trace cpy and kspar halo
DDH-THU-004	120.6	VEN	10	EP	0.01	Epidote vein with trace cpy; cut by kspar + calcite veinlets
DDH-THU-004	123	VEN	60	SR	0.01	Light blue sericite vein with halo
DDH-THU-004	126.4	VEN	60	CT	0.02	Calcite vein with wallrock fragments
DDH-THU-004	130.9	VEN	5	CT	0.01	Calite + chlorite + epidote veining continues in core for approximately 1 metre
DDH-THU-004	133	VEN	45	QZ	0.01	En echelon quartz + sericite veins with epidote bleaching around veins
DDH-THU-004	135.4	VEN	45	CT	0.03	White calcite with pink calcite halos
DDH-THU-004	139.2	VEN	25	CT	0.03	Toothy calcite vein with weak kspar haloes
DDH-THU-004	143.6	VEN	40	QZ	0.02	Quartz with finer epidote stringers
DDH-THU-004	146.4	VEN	5	CT	0.01	Crystalline calcite vein
DDH-THU-004	148	VEN	20	EP	0.01	Epidote stringer cut through xenolith zone
DDH-THU-004	153.1	VEN	30	CT	0.01	Calcite vein with kspar halos
DDH-THU-004	155.5	VEN	10	CT	0.01	Pink calcite veinlets
DDH-THU-004	159.35	VEN	45	CT	0.01	Calcite vein with trace epidote specks
DDH-THU-004	163.6	VEN	35	CT	0.01	Pink calcite veinlets

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-001	A16-06455	12/07/2016	7.5	9.5	1448151	ICP	7.05	<5	<0.2	0.6	329		2	52	<2	46	4	30	2	0.26			
DDH-THU-001	A16-06455	12/07/2016	9.5	11.5	1448152	ICP	6.6	<5	<0.2	<0.5	126		<1	41	9	49	<2	26	<1	0.08			
DDH-THU-001	A16-06455	12/07/2016	11.5	13.4	1448153	ICP	6.66	<5	<0.2	<0.5	223		<1	105	<2	41	4	40	1	0.11			
DDH-THU-001	A16-06455	12/07/2016	13.4	15.1	1448154	ICP	3.7	<5	<0.2	<0.5	257		2	11	<2	39	10	10	<1	0.05			
DDH-THU-001	A16-06455	12/07/2016	15.1	16.8	1448155	ICP	4.05	<5	<0.2	<0.5	251		<1	7	<2	48	8	11	<1	0.15			
DDH-THU-001	A16-06455	12/07/2016	16.8	19.2	1448156	ICP	7.21	<5	<0.2	<0.5	54		2	132	<2	47	4	42	2	0.03			
DDH-THU-001	A16-06455	12/07/2016	19.2	21.56	1448157	ICP	7.65	<5	<0.2	<0.5	52		<1	121	<2	51	<2	43	2	0.04			
DDH-THU-001	A16-06455	12/07/2016	21.56	23.52	1448158	ICP	2.8	<5	<0.2	<0.5	315		<1	29	<2	70	2	18	<1	0.1			
DDH-THU-001	A16-06455	12/07/2016	23.52	25.3	1448159	ICP	2.44	<5	<0.2	<0.5	119		<1	18	<2	60	6	11	<1	0.02			
DDH-THU-001	A16-06455	12/07/2016	25.3	27.5	1448161	ICP	3.17	<5	<0.2	<0.5	145		<1	19	<2	51	6	13	<1	0.02			
DDH-THU-001	A16-06455	12/07/2016	27.5	29.5	1448162	ICP	2.07	<5	<0.2	<0.5	214		1	15	<2	40	8	13	<1	0.14			
DDH-THU-001	A16-06455	12/07/2016	29.5	31	1448163	ICP	2.49	<5	<0.2	<0.5	214		<1	42	<2	63	4	16	<1	0.05			
DDH-THU-001	A16-06455	12/07/2016	31	32	1448164	ICP	4.57	<5	<0.2	<0.5	708		<1	30	7	104	7	30	<1	0.17			
DDH-THU-001	A16-06455	12/07/2016	32	34	1448165	ICP	3.38	<5	<0.2	<0.5	218		<1	20	<2	48	<2	12	<1	0.03			
DDH-THU-001	A16-06455	12/07/2016	34	36	1448167	ICP	4.3	<5	<0.2	<0.5	183		<1	8	<2	39	5	15	2	0.12			
DDH-THU-001	A16-06455	12/07/2016	36	37.33	1448168	ICP	3.69	<5	<0.2	<0.5	65		2	10	<2	34	3	14	1	0.21			
DDH-THU-001	A16-06455	12/07/2016	37.33	39.39	1448169	ICP	4.01	<5	<0.2	<0.5	248		1	19	<2	31	9	18	<1	0.79			
DDH-THU-001	A16-06455	12/07/2016	39.39	41.7	1448171	ICP	3.13	<5	<0.2	<0.5	301		1	17	<2	34	6	23	1	0.5			
DDH-THU-001	A16-06455	12/07/2016	41.7	43.7	1448172	ICP	3.65	<5	<0.2	<0.5	402		1	15	<2	35	8	26	1	0.06			
DDH-THU-001	A16-06455	12/07/2016	43.7	45.7	1448173	ICP	2.29	28	0.4	<0.5	3190		2	6	5	22	8	9	<1	0.15			
DDH-THU-001	A16-06455	12/07/2016	45.7	48	1448174	ICP	3.4	<5	<0.2	<0.5	301		<1	15	<2	37	6	29	<1	1.37			
DDH-THU-001	A16-06455	12/07/2016	48	50	1448175	ICP	3.37	<5	<0.2	<0.5	120		2	20	<2	18	4	36	<1	2.26			
DDH-THU-001	A16-06455	12/07/2016	50	52	1448176	ICP	3.34	<5	<0.2	<0.5	92		3	15	<2	24	7	39	<1	1.96			
DDH-THU-001	A16-06455	12/07/2016	52	54	1448177	ICP	2.99	<5	<0.2	<0.5	172		2	13	<2	25	6	37	<1	1.61			
DDH-THU-001	A16-06455	12/07/2016	54	55.2	1448178	ICP	2.95	<5	<0.2	<0.5	511		<1	26	<2	28	7	43	<1	1.43			
DDH-THU-001	A16-06455	12/07/2016	55.2	56.77	1448179	ICP	3.55	<5	<0.2	<0.5	439		<1	52	<2	37	11	42	<1	0.57			
DDH-THU-001	A16-06455	12/07/2016	56.77	59	1448181	ICP	5.38	<5	<0.2	<0.5	76		<1	164	<2	41	2	48	<1	0.09			
DDH-THU-001	A16-06455	12/07/2016	59	61.3	1448182	ICP	4.58	<5	<0.2	<0.5	78		1	123	<2	31	7	35	<1	0.08			
DDH-THU-001	A16-06455	12/07/2016	61.3	63	1448183	ICP	5.25	<5	<0.2	<0.5	56		<1	128	<2	36	<2	39	<1	0.08			
DDH-THU-001	A16-06455	12/07/2016	63	65	1448184	ICP	3.91	<5	<0.2	<0.5	562		1	40	<2	25	<2	30	1	0.49			
DDH-THU-001	A16-06455	12/07/2016	65	67	1448185	ICP	3.9	<5	<0.2	<0.5	115		<1	38	<2	30	<2	17	1	0.03			
DDH-THU-001	A16-06455	12/07/2016	67	69	1448186	ICP	5.1	<5	<0.2	<0.5	291		<1	54	<2	28	4	24	<1	0.05			
DDH-THU-001	A16-06455	12/07/2016	69	71	1448187	ICP	5.58	<5	<0.2	0.5	58		1	59	<2	27	<2	24	<1	0.04			
DDH-THU-001	A16-06455	12/07/2016	71	73	1448188	ICP	5.7	<5	<0.2	<0.5	100		1	58	<2	34	<2	26	1	0.05			
DDH-THU-001	A16-06455	12/07/2016	73	75.2	1448189	ICP	5.65	<5	<0.2	<0.5	66		<1	62	<2	33	2	30	<1	0.04			
DDH-THU-001	A16-06455	12/07/2016	75.2	77.6	1448191	ICP	6.36	<5	<0.2	<0.5	70		2	80	<2	36	<2	32	<1	0.05			
DDH-THU-001	A16-06455	12/07/2016	77.6	79	1448192	ICP	5.52	<5	<0.2	0.8	2390		<1	52	<2	29	<2	24	<1	0.26			
DDH-THU-001	A16-06455	12/07/2016	79	80.47	1448194	ICP	6.27	<5	<0.2	<0.5	176		<1	53	<2	34	7	28	6	0.04			
DDH-THU-001	A16-06455	12/07/2016			1448160	CDN-CM-39	5.97	485	5.1	4.8	4990		138	15	101	864	25	16	<1	4.37			
DDH-THU-001	A16-06455	12/07/2016			1448166	BLANK	1.09	<5	<0.2	<0.5	5		5	2	9	24	<2	1	<1	0.01			
DDH-THU-001	A16-06455	12/07/2016			1448170	CDN-CM-26	5.41	410	2.5	2.9	2490		19	20	66	647	59	15	<1	3.6			
DDH-THU-001	A16-06455	12/07/2016			1448180	BLANK	0.98	<5	<0.2	<0.5	3		3	1	9	22	<2	<1	<1	0.02			
DDH-THU-001	A16-06455	12/07/2016			1448190	CDN-CM-33	4.04	13	2.4	0.8	3570		258	213	20	158	29	34	<1	2.47			
DDH-THU-001	A16-06455	12/07/2016			1448193	BLANK	0.99	<5	<0.2	<0.5	9		2	3	10	25	<2	1	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	8.5	10.9	1448201	ICP	6.98	8	<0.2	<0.5	98		<1	53	<2	33	4	28	2	0.09			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-001A	A16-06905	04/08/2016	10.9	12.45	1448202	ICP	6.93	<5	<0.2	<0.5	51		<1	166	<2	45	<2	53	2	0.07			
DDH-THU-001A	A16-06905	04/08/2016	12.45	13.48	1448203	ICP	6.48	6	<0.2	<0.5	136		<1	43	<2	57	<2	31	1	0.14			
DDH-THU-001A	A16-06905	04/08/2016	13.48	15.5	1448204	ICP	4.75	<5	<0.2	<0.5	71		<1	36	3	41	3	21	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	15.5	18	1448205	ICP	5.58	5	<0.2	<0.5	65		<1	103	<2	39	<2	37	1	0.03			
DDH-THU-001A	A16-06905	04/08/2016	18	20.5	1448206	ICP	9.22	9	<0.2	<0.5	350		<1	73	<2	50	2	42	<1	0.05			
DDH-THU-001A	A16-06905	04/08/2016	20.5	22.5	1448207	ICP	3.83	6	<0.2	<0.5	201		<1	55	<2	32	4	25	<1	0.05			
DDH-THU-001A	A16-06905	04/08/2016	22.5	24.5	1448208	ICP	1.83	13	<0.2	<0.5	199		<1	28	<2	32	5	12	<1	0.04			
DDH-THU-001A	A16-06905	04/08/2016	24.5	26.5	1448209	ICP	2.72	6	<0.2	<0.5	383		<1	15	<2	31	8	18	<1	0.43			
DDH-THU-001A	A16-06905	04/08/2016	26.5	27.88	1448211	ICP	2.93	7	<0.2	<0.5	422		2	37	<2	36	6	27	<1	0.92			
DDH-THU-001A	A16-06905	04/08/2016	27.88	30	1448212	ICP	2.84	<5	<0.2	<0.5	134		<1	17	<2	39	7	12	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	30	32	1448213	ICP	3.09	5	<0.2	<0.5	167		<1	10	<2	95	6	12	<1	0.24			
DDH-THU-001A	A16-06905	04/08/2016	32	34	1448214	ICP	2.04	<5	<0.2	<0.5	204		<1	12	<2	48	8	11	<1	0.11			
DDH-THU-001A	A16-06905	04/08/2016	34	36	1448215	ICP	2.54	7	<0.2	<0.5	286		<1	15	<2	42	6	17	<1	0.27			
DDH-THU-001A	A16-06905	04/08/2016	36	38	1448216	ICP	1.91	5	<0.2	<0.5	169		<1	8	<2	26	2	16	<1	0.56			
DDH-THU-001A	A16-06905	04/08/2016	38	39.55	1448217	ICP	3.55	6	<0.2	<0.5	199		<1	27	<2	50	8	32	<1	0.17			
DDH-THU-001A	A16-06905	04/08/2016	39.55	41	1448218	ICP	1.81	<5	<0.2	<0.5	125		<1	9	<2	39	8	17	<1	0.05			
DDH-THU-001A	A16-06905	04/08/2016	41	43	1448219	ICP	3.56	5	<0.2	<0.5	56		<1	9	<2	25	7	17	<1	0.52			
DDH-THU-001A	A16-06905	04/08/2016	43	44.9	1448221	ICP	3.38	<5	<0.2	<0.5	188		1	4	<2	24	5	15	<1	0.53			
DDH-THU-001A	A16-06905	04/08/2016	44.9	47.3	1448222	ICP	3.99	6	<0.2	<0.5	141		<1	10	<2	33	5	35	<1	0.26			
DDH-THU-001A	A16-06905	04/08/2016	47.3	49.45	1448223	ICP	2.54	5	<0.2	<0.5	89		<1	5	<2	29	6	7	<1	0.01			
DDH-THU-001A	A16-06905	04/08/2016	49.45	52.75	1448224	ICP	2.37	5	<0.2	<0.5	83		<1	6	<2	39	4	11	1	0.05			
DDH-THU-001A	A16-06905	04/08/2016	52.75	53.88	1448225	ICP	2.91	<5	<0.2	<0.5	412		<1	35	<2	47	3	22	<1	0.05			
DDH-THU-001A	A16-06905	04/08/2016	53.88	56.4	1448226	ICP	3.79	<5	<0.2	<0.5	128		<1	122	<2	40	<2	43	<1	0.03			
DDH-THU-001A	A16-06905	04/08/2016	56.4	57.5	1448227	ICP	5.41	<5	<0.2	<0.5	197		<1	179	<2	45	<2	49	<1	0.03			
DDH-THU-001A	A16-06905	04/08/2016	57.5	59.5	1448228	ICP	2.42	<5	<0.2	<0.5	40		<1	17	<2	30	2	13	<1	0.01			
DDH-THU-001A	A16-06905	04/08/2016	59.5	60.85	1448229	ICP	4	9	<0.2	<0.5	60		<1	42	<2	35	5	18	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	60.85	63	1448231	ICP	4.69	<5	<0.2	<0.5	74		<1	94	<2	28	<2	32	<1	0.07			
DDH-THU-001A	A16-06905	04/08/2016	63	64.9	1448232	ICP	6.02	<5	<0.2	<0.5	28		<1	78	<2	37	2	34	2	0.03			
DDH-THU-001A	A16-06905	04/08/2016	64.9	67.22	1448233	ICP	5.72	5	<0.2	<0.5	87		<1	67	<2	39	<2	33	1	0.06			
DDH-THU-001A	A16-06905	04/08/2016	67.22	69.83	1448234	ICP	5.13	<5	<0.2	<0.5	66		<1	66	<2	39	<2	28	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	69.83	70.4	1448235	ICP	4.3	<5	<0.2	<0.5	108		<1	49	<2	19	<2	60	<1	0.17			
DDH-THU-001A	A16-06905	04/08/2016	70.4	72.47	1448236	ICP	5.63	<5	<0.2	<0.5	49		<1	54	<2	32	<2	30	1	0.04			
DDH-THU-001A	A16-06905	04/08/2016	72.47	74.72	1448237	ICP	4.69	<1	<0.2	<0.5	47		<1	43	<2	38	2	24	2	0.02			
DDH-THU-001A	A16-06905	04/08/2016	74.72	75.65	1448238	ICP	5.01	5	<0.2	<0.5	47		<1	62	<2	43	<2	30	1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	75.65	78	1448239	ICP	5.74	<5	<0.2	<0.5	257		<1	66	<2	31	<2	29	2	0.04			
DDH-THU-001A	A16-06905	04/08/2016	78	80	1448241	ICP	5.08	26	<0.2	<0.5	108		<1	53	<2	33	<2	26	<1	0.03			
DDH-THU-001A	A16-06905	04/08/2016	80	82	1448242	ICP	5.26	<5	<0.2	<0.5	148		<1	57	<2	41	<2	26	2	0.04			
DDH-THU-001A	A16-06905	04/08/2016	82	84	1448243	ICP	4.84	<5	<0.2	<0.5	285		<1	60	<2	45	<2	25	1	0.06			
DDH-THU-001A	A16-06905	04/08/2016	84	86	1448244	ICP	4.85	<5	<0.2	<0.5	122		1	56	<2	38	3	28	<1	0.04			
DDH-THU-001A	A16-06905	04/08/2016	86	88	1448245	ICP	4.94	<5	<0.2	<0.5	196		<1	32	<2	49	<2	22	<1	0.04			
DDH-THU-001A	A16-06905	04/08/2016	88	90	1448246	ICP	4.57	705	<0.2	<0.5	114		2	28	<2	42	<2	21	<1	0.01			
DDH-THU-001A	A16-06905	04/08/2016	90	92	1448247	ICP	4.21	<5	<0.2	<0.5	74		1	40	<2	41	<2	23	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	92	93.75	1448248	ICP	3.98	<5	<0.2	<0.5	134		1	25	2	36	<2	19	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	93.75	94.35	1448249	ICP	2.57	<5	<0.2	<0.5	58		<1	10	<2	20	<2	10	<1	<0.01			
DDH-THU-001A	A16-06905	04/08/2016	94.35	97	1448251	ICP	5	<5	<0.2	<0.5	255		3	31	<2	44	<2	26	3	0.12			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-001A	A16-06905	04/08/2016	97	98.6	1448252	ICP	4.35	<5	<0.2	<0.5	320		2	12	2	33	2	18	<1	0.09			
DDH-THU-001A	A16-06905	04/08/2016	98.6	100.55	1448253	ICP	4.15	<5	<0.2	<0.5	620		<1	16	<2	29	<2	18	<1	0.1			
DDH-THU-001A	A16-06905	04/08/2016	100.55	103	1448254	ICP	3.62	<5	<0.2	<0.5	236		1	11	3	31	<2	13	<1	0.02			
DDH-THU-001A	A16-06905	04/08/2016	103	104.87	1448255	ICP	4.14	<5	<0.2	<0.5	218		<1	16	<2	38	<2	17	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	104.87	106.85	1448256	ICP	4.25	<5	<0.2	<0.5	220		<1	17	<2	41	5	18	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	106.85	108.65	1448257	ICP	4.28	<5	<0.2	<0.5	301		<1	18	3	41	<2	19	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	108.65	110.5	1448258	ICP	3.03	<5	<0.2	<0.5	213		<1	9	<2	28	<2	11	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	110.5	112.85	1448259	ICP	3.58	<5	<0.2	<0.5	104		2	10	<2	35	<2	14	<1	<0.01			
DDH-THU-001A	A16-06907	27/07/2016	112.85	115	1448261	ICP	3.43	<5	<0.2	<0.5	1310		<1	13	10	41	<2	13	<1	0.08			
DDH-THU-001A	A16-06907	27/07/2016	115	117	1448262	ICP	4.2	<5	<0.2	<0.5	370		<1	12	4	35	<2	17	<1	0.03			
DDH-THU-001A	A16-06907	27/07/2016	117	119	1448263	ICP	4.21	<5	<0.2	<0.5	239		<1	19	<2	29	<2	18	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	119	120.1	1448264	ICP	3.65	20	<0.2	<0.5	285		<1	23	<2	29	<2	14	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	120.1	122	1448265	ICP	3.88	<5	<0.2	<0.5	167		<1	22	<2	34	<2	14	<1	<0.01			
DDH-THU-001A	A16-06907	27/07/2016	122	124	1448266	ICP	2.68	<5	<0.2	<0.5	1080		<1	15	<2	16	5	10	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	124	126.08	1448267	ICP	3.83	<5	<0.2	<0.5	1900		<1	35	4	21	3	14	<1	0.02			
DDH-THU-001A	A16-06907	27/07/2016	126.08	128.33	1448268	ICP	3.82	<5	<0.2	<0.5	839		<1	15	5	38	<2	16	<1	<0.01			
DDH-THU-001A	A16-06907	27/07/2016	128.33	130.39	1448269	ICP	2.98	<5	<0.2	<0.5	3230		2	13	17	33	4	6	<1	0.03			
DDH-THU-001A	A16-06907	27/07/2016	130.39	131.6	1448271	ICP	2.88	<5	<0.2	<0.5	2850		3	14	2	24	6	7	<1	0.04			
DDH-THU-001A	A16-06907	27/07/2016	131.6	133.75	1448272	ICP	6.49	<5	<0.2	<0.5	873		<1	32	<2	32	<2	25	2	0.02			
DDH-THU-001A	A16-06907	27/07/2016	133.75	135.88	1448273	ICP	5.11	<5	<0.2	<0.5	1100		<1	34	4	39	<2	23	3	0.03			
DDH-THU-001A	A16-06907	27/07/2016	135.88	137.71	1448274	ICP	5.22	383	<0.2	<0.5	240		<1	28	<2	54	3	26	3	<0.01			
DDH-THU-001A	A16-06907	27/07/2016	137.71	139.7	1448275	ICP	4.61	<5	<0.2	<0.5	89		<1	27	<2	31	<2	24	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	139.7	141.78	1448276	ICP	5.07	<5	<0.2	<0.5	427		4	23	<2	34	5	22	2	0.03			
DDH-THU-001A	A16-07054	02/08/2016	141.78	143.7	1448277	ICP	7.41	<5	1	<0.5	3670		50	22	<2	36	<2	24	1	0.1			
DDH-THU-001A	A16-07054	02/08/2016	143.7	145.85	1448278	ICP	4.84	<5	<0.2	<0.5	242		<1	25	<2	23	<2	20	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	145.85	148.28	1448279	ICP	2.38	<5	<0.2	<0.5	53		<1	12	<2	26	6	9	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	148.28	150.05	1448281	ICP	4.09	<5	<0.2	<0.5	138		1	28	<2	26	3	16	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	150.05	152.28	1448282	ICP	4.69	8	<0.2	<0.5	80		<1	26	<2	25	<2	18	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	152.28	153.85	1448283	ICP	2.87	<5	<0.2	<0.5	3820		6	8	8	12	<2	5	<1	0.36			
DDH-THU-001A	A16-07054	02/08/2016	153.85	156	1448284	ICP	3.49	37	<0.2	<0.5	779		<1	28	<2	22	<2	15	<1	0.12			
DDH-THU-001A	A16-07054	02/08/2016	156	158.3	1448285	ICP	4.77	<5	<0.2	<0.5	1800		1	12	3	19	<2	16	<1	0.07			
DDH-THU-001A	A16-07054	02/08/2016	158.3	160	1448286	ICP	5.2	7	<0.2	<0.5	707		3	11	<2	29	<2	14	<1	0.04			
DDH-THU-001A	A16-07054	02/08/2016	160	162.62	1448287	ICP	4.99	<5	<0.2	<0.5	864		1	14	<2	18	<2	13	<1	0.04			
DDH-THU-001A	A16-07054	02/08/2016	162.62	164.26	1448288	ICP	3.88	<5	<0.2	<0.5	1490		<1	14	<2	19	<2	14	<1	0.05			
DDH-THU-001A	A16-07054	02/08/2016	164.26	166.35	1448289	ICP	4.52	<5	<0.2	<0.5	1060		<1	12	<2	30	<2	13	<1	0.03			
DDH-THU-001A	A16-07054	02/08/2016	166.35	168.4	1448291	ICP	4.28	6	<0.2	<0.5	400		<1	17	2	54	<2	17	<1	0.01			
DDH-THU-001A	A16-07054	02/08/2016	168.4	170.47	1448292	ICP	4.28	<5	<0.2	<0.5	392		<1	18	<2	49	<2	18	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	170.47	172.65	1448293	ICP	5.98	<5	<0.2	<0.5	217		1	22	<2	41	<2	23	2	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	172.65	173.6	1448294	ICP	7.53	<5	<0.2	<0.5	139		3	15	<2	45	<2	21	2	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	173.6	176.48	1448295	ICP	4.29	<5	<0.2	<0.5	650		2	24	<2	48	<2	19	<1	0.07			
DDH-THU-001A	A16-07054	02/08/2016	176.48	177.55	1448296	ICP	1.97	<5	<0.2	<0.5	95		2	7	<2	23	<2	7	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	177.55	179.72	1448297	ICP	4.09	<5	<0.2	<0.5	84		2	15	2	44	<2	17	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	179.72	182.05	1448298	ICP	4.11	<5	<0.2	<0.5	111		2	16	<2	49	<2	16	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	182.05	184	1448299	ICP	1.37	<5	<0.2	<0.5	48		1	4	<2	14	<2	4	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	184	186	1448301	ICP	1.83	<5	<0.2	<0.5	72		2	3	3	20	<2	5	<1	<0.01			

Hole ID	Report Number	Report Date	From (m)	To (m)	Sample Number	Analysis	Fe	Au	Ag	Cd	Cu	Cu	Mo	Ni	Pb	Zn	As	Co	Hg	S	Au	Pd	Pt
Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
DDH-THU-001A	A16-07054	02/08/2016	186	188	1448302	ICP	1.83	22	<0.2	<0.5	51		2	3	<2	19	<2	5	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	188	190	1448303	ICP	4.11	<5	<0.2	<0.5	98		1	18	3	47	<2	17	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	190	192	1448304	ICP	3.26	5	<0.2	<0.5	72		<1	13	3	33	2	13	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	192	194	1448305	ICP	3.59	6	<0.2	<0.5	104		<1	15	<2	35	3	15	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	194	196	1448306	ICP	3.63	387	<0.2	<0.5	93		2	14	<2	41	2	14	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	196	198	1448307	ICP	3.37	13	<0.2	<0.5	96		2	14	3	42	6	13	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	198	200	1448308	ICP	3.58	30	<0.2	<0.5	92		1	13	3	40	2	14	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	200	202	1448309	ICP	3.24	57	<0.2	<0.5	91		2	11	<2	34	<2	13	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	202	204.67	1448311	ICP	3.01	30	<0.2	<0.5	82		1	12	<2	38	<2	12	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	204.67	207	1448312	ICP	3.1	<5	<0.2	<0.5	127		2	10	2	38	2	12	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	207	208.91	1448313	ICP	3	6	<0.2	<0.5	116		3	10	8	39	2	12	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	208.91	211	1448314	ICP	2.58	9	<0.2	<0.5	132		3	5	3	31	<2	9	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	211	213	1448315	ICP	3.47	56	<0.2	<0.5	67		3	12	3	38	<2	13	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	213	215	1448316	ICP	3.25	125	<0.2	<0.5	85		2	12	6	35	2	13	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	215	218	1448317	ICP	3.9	33	<0.2	<0.5	122		2	14	<2	44	<2	16	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	218	220	1448318	ICP	4.16	9	<0.2	<0.5	1050		1	14	5	48	<2	16	<1	0.06			
DDH-THU-001A	A16-07054	02/08/2016	220	222	1448319	ICP	3.49	6	<0.2	<0.5	148		<1	16	<2	34	<2	14	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	222	224	1448321	ICP	4.03	18	<0.2	<0.5	135		1	19	<2	48	2	17	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	224	226	1448322	ICP	3.97	15	<0.2	<0.5	128		2	15	<2	50	2	16	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	226	228.2	1448323	ICP	3.55	16	<0.2	<0.5	117		2	18	<2	45	<2	15	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	228.2	229.67	1448324	ICP	2.62	<5	<0.2	<0.5	102		2	9	<2	27	<2	9	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	229.67	232.8	1448325	ICP	3.65	<5	<0.2	<0.5	150		<1	17	<2	48	<2	15	<1	<0.01			
DDH-THU-001A	A16-07054	02/08/2016	232.8	235	1448326	ICP	2.9	<5	<0.2	<0.5	95		2	9	<2	32	<2	11	<1	<0.01			
DDH-THU-001A	A16-06905	04/08/2016			1448210	CDN-CM-33	3.66	22	2	1	3320		255	215	18	151	24	33	<1	2.18			
DDH-THU-001A	A16-06905	04/08/2016			1448220	CDN-CM-39	5.84	589	5.1	5.3	5110		138	16	101	841	25	14	<1	3.97			
DDH-THU-001A	A16-06905	04/08/2016			1448230	BLANK	1.01	<5	<0.2	<0.5	3		1	1	7	21	<2	1	<1	0.01			
DDH-THU-001A	A16-06905	04/08/2016			1448240	CDN-CM-26	4.96	8	2.4	3.1	2450		19	22	61	607	49	14	<1	3.16			
DDH-THU-001A	A16-06905	04/08/2016			1448250	CDN-CM-33	3.74	<5	2.1	1.2	3530		256	212	19	156	26	34	<1	2.27			
DDH-THU-001A	A16-06907	27/07/2016			1448260	BLANK	1.32	<5	<0.2	<0.5	3		3	2	8	21	<2	1	<1	<0.01			
DDH-THU-001A	A16-06907	27/07/2016			1448270	CDN-CM-26	5.09	<5	2.4	3.5	2520		20	23	65	618	50	15	<1	3.27			
DDH-THU-001A	A16-07054	02/08/2016			1448280	CDN-CM-39	6.05	<5	5.3	5.8	5350		145	17	103	909	28	15	3	4.23			
DDH-THU-001A	A16-07054	02/08/2016			1448290	ICP	1.02	<5	<0.2	<0.5	4		2	1	7	21	<2	<1	<1	0.01			
DDH-THU-001A	A16-07054	02/08/2016			1448300	CDN-CM-33	3.7	<5	2.1	1	3420		255	213	14	156	22	34	<1	2.25			
DDH-THU-001A	A16-07054	02/08/2016			1448310	CDN-CM-26	5.11	379	2.3	3.3	2500		20	21	66	646	51	15	2	3.29			
DDH-THU-001A	A16-07054	02/08/2016			1448320	BLANK	0.86	117	<0.2	<0.5	1		3	<1	7	21	<2	<1	<1	0.01			
DDH-THU-002	A16-07413	15/08/2016	154.5	158	1437001	ICP	3.95	<5	1	<0.5	115		<1	5	<2	34	<2	13	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	158	160.7	1437002	ICP	4.37	<5	<0.2	<0.5	204		<1	<1	<2	26	8	11	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	160.7	163	1437003	ICP	2.46	29	<0.2	<0.5	179		<1	2	<2	25	2	8	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	163	165	1437004	ICP	2.33	<5	<0.2	<0.5	129		<1	2	<2	32	<2	7	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	165	167	1437005	ICP	1.97	<5	<0.2	<0.5	70		<1	2	<2	40	<2	5	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	167	169	1437006	ICP	1.96	<5	<0.2	<0.5	152		<1	3	<2	28	<2	7	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	169	171	1437007	ICP	2.97	<5	<0.2	<0.5	374		<1	4	<2	32	4	13	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	171	173	1437008	ICP	2.74	<5	<0.2	<0.5	222		<1	3	<2	31	<2	11	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	173	175	1437009	ICP	2.81	<5	<0.2	<0.5	1220		<1	3	3	28	2	12	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	175	177	1437011	ICP	3.3	<5	<0.2	<0.5	200		<1	3	2	35	4	9	<1	0.02			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-002	A16-07413	15/08/2016	177	178.7	1437012	ICP	4.26	<5	<0.2	<0.5	762		<1	4	<2	79	13	16	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	178.7	181	1437013	ICP	2.29	11	<0.2	<0.5	1440		<1	3	8	32	17	35	<1	0.09			
DDH-THU-002	A16-07413	15/08/2016	181	181.6	1437014	ICP	2.18	5	<0.2	<0.5	2580		<1	3	4	21	9	20	<1	0.03			
DDH-THU-002	A16-07413	15/08/2016	181.6	183.55	1437015	ICP	3.24	5	<0.2	<0.5	4640		<1	4	2	25	88	99	<1	0.67			
DDH-THU-002	A16-07413	15/08/2016	183.55	185.5	1437016	ICP	2.53	<5	<0.2	<0.5	92		<1	10	2	31	8	9	<1	0.05			
DDH-THU-002	A16-07413	15/08/2016	185.5	187	1437017	ICP	2.81	7	<0.2	<0.5	54		5	26	<2	24	108	11	<1	0.4			
DDH-THU-002	A16-07413	15/08/2016	187	189.92	1437018	ICP	3.01	6	<0.2	<0.5	42		56	33	4	78	44	20	<1	0.9			
DDH-THU-002	A16-07413	15/08/2016	189.92	190.77	1437019	ICP	2.46	40	<0.2	<0.5	863		15	4	3	56	44	22	<1	0.47			
DDH-THU-002	A16-07413	15/08/2016	190.77	192	1437021	ICP	3.63	<5	<0.2	<0.5	350		6	2	<2	35	20	5	<1	0.01			
DDH-THU-002	A16-07413	15/08/2016	192	194	1437022	ICP	2.71	<5	<0.2	<0.5	377		15	4	3	48	62	35	<1	0.34			
DDH-THU-002	A16-07413	15/08/2016	194	195.7	1437023	ICP	3.57	<5	<0.2	<0.5	69		<1	3	<2	56	6	8	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	195.7	197.6	1437024	ICP	3.56	<5	<0.2	<0.5	234		5	3	<2	47	26	5	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	197.6	200.3	1437025	ICP	2.86	<5	<0.2	<0.5	76		3	6	3	52	29	11	<1	0.26			
DDH-THU-002	A16-07413	15/08/2016	200.3	202	1437026	ICP	2.58	<5	<0.2	<0.5	29		<1	4	<2	34	12	6	1	0.14			
DDH-THU-002	A16-07413	15/08/2016	202	204.2	1437027	ICP	5.43	53	<0.2	1	165		3	3	3	77	22	12	4	0.05			
DDH-THU-002	A16-07413	15/08/2016	204.2	206	1437028	ICP	3.92	18	<0.2	<0.5	66		1	7	3	94	19	23	<1	0.07			
DDH-THU-002	A16-07413	15/08/2016	206	207.55	1437029	ICP	5.39	<5	<0.2	<0.5	47		3	9	2	106	12	21	3	0.05			
DDH-THU-002	A16-07413	15/08/2016	207.55	209	1437031	ICP	0.75	<5	<0.2	<0.5	5		<1	<1	<2	11	<2	1	1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	209	211	1437032	ICP	0.51	<5	<0.2	<0.5	7		<1	<1	<2	5	3	<1	2	<0.01			
DDH-THU-002	A16-07413	15/08/2016	211	213	1437033	ICP	0.9	9	<0.2	<0.5	9		1	<1	<2	5	5	<1	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	213	215	1437034	ICP	0.46	<5	<0.2	<0.5	11		<1	<1	<2	4	6	<1	2	0.01			
DDH-THU-002	A16-07413	15/08/2016	215	217	1437035	ICP	0.25	159	<0.2	<0.5	3		<1	<1	<2	<2	<2	<1	2	<0.01			
DDH-THU-002	A16-07413	15/08/2016	217	219	1437036	ICP	0.38	9	<0.2	<0.5	4		<1	<1	<2	4	3	<1	2	<0.01			
DDH-THU-002	A16-07413	15/08/2016	219	221	1437037	ICP	0.46	6	<0.2	<0.5	6		<1	<1	<2	10	3	2	2	0.01			
DDH-THU-002	A16-07413	15/08/2016	221	223	1437038	ICP	0.25	<5	<0.2	<0.5	6		<1	<1	<2	6	4	1	1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	223	225	1437039	ICP	1.3	40	<0.2	<0.5	13		<1	<1	<2	18	5	2	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	225	227	1437041	ICP	1.46	<5	<0.2	<0.5	9		<1	<1	<2	24	8	3	2	0.05			
DDH-THU-002	A16-07413	15/08/2016	227	229	1437042	ICP	1.98	<5	<0.2	<0.5	9		<1	5	2	27	7	6	<1	0.08			
DDH-THU-002	A16-07413	15/08/2016	229	231	1437043	ICP	4.73	<5	<0.2	<0.5	17		<1	8	4	80	7	13	<1	0.21			
DDH-THU-002	A16-07413	15/08/2016	231	232.45	1437044	ICP	6.5	<5	<0.2	<0.5	57		<1	8	<2	111	<2	19	3	0.22			
DDH-THU-002	A16-07413	15/08/2016	232.45	233.9	1437045	ICP	5.46	<5	<0.2	<0.5	70		<1	9	<2	78	7	20	<1	0.8			
DDH-THU-002	A16-07413	15/08/2016	233.9	236	1437046	ICP	0.33	25	<0.2	<0.5	465		<1	<1	<2	2	<2	3	<1	0.08			
DDH-THU-002	A16-07413	15/08/2016	236	238	1437047	ICP	0.28	<5	<0.2	<0.5	4		<1	<1	<2	4	2	2	<1	0.03			
DDH-THU-002	A16-07413	15/08/2016	238	240	1437048	ICP	0.33	7	<0.2	<0.5	4		<1	1	<2	5	3	1	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	240	242	1437049	ICP	0.22	<5	<0.2	<0.5	2		<1	<1	2	4	2	1	<1	0.01			
DDH-THU-002	A16-07413	15/08/2016	242	244	1437051	ICP	0.18	<5	<0.2	<0.5	15		<1	<1	<2	4	2	1	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	244	246	1437052	ICP	0.17	8	<0.2	<0.5	20		<1	<1	2	3	2	2	<1	0.03			
DDH-THU-002	A16-07413	15/08/2016	246	249	1437053	ICP	0.24	<5	<0.2	<0.5	17		2	<1	<2	2	3	4	<1	0.03			
DDH-THU-002	A16-07413	15/08/2016	249	251	1437054	ICP	0.21	<5	<0.2	<0.5	4		<1	<1	<2	5	<2	2	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016	251	253	1437055	ICP	0.21	<5	<0.2	<0.5	5		12	<1	2	8	2	2	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	253	255	1437056	ICP	0.28	9	<0.2	<0.5	14		4	2	4	10	7	4	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	255	257	1437057	ICP	0.39	12	<0.2	<0.5	6		2	<1	<2	9	3	2	<1	0.02			
DDH-THU-002	A16-07413	15/08/2016	257	259	1437058	ICP	0.39	<5	<0.2	<0.5	13		1	<1	2	9	6	3	<1	0.03			
DDH-THU-002	A16-07413	15/08/2016	259	260.3	1437059	ICP	0.83	<5	<0.2	<0.5	37		9	2	<2	28	17	7	<1	0.05			
DDH-THU-002	A16-07413	15/08/2016	260.3	262	1437061	ICP	2.65	15	<0.2	<0.5	28		31	4	3	69	40	11	<1	0.44			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-002	A16-07413	15/08/2016	262	264	1437062	ICP	2.56	<5	<0.2	2.1	27		54	5	2	56	49	14	<1	0.35			
DDH-THU-002	A16-07413	15/08/2016	264	266	1437063	ICP	3.37	<5	<0.2	2.4	25		190	14	4	95	52	24	<1	0.36			
DDH-THU-002	A16-07413	15/08/2016	266	268	1437064	ICP	4.98	<5	<0.2	13.2	31		427	14	8	309	142	26	<1	0.32			
DDH-THU-002	A16-07413	15/08/2016	268	270	1437065	ICP	5.39	<5	<0.2	0.7	19		103	7	<2	86	427	23	<1	0.39			
DDH-THU-002	A16-07413	15/08/2016	270	272	1437066	ICP	4.72	<5	<0.2	0.6	27		113	6	2	136	114	18	<1	0.2			
DDH-THU-002	A16-07413	15/08/2016	272	274	1437067	ICP	4.62	47	<0.2	<0.5	12		32	6	<2	87	45	13	<1	0.31			
DDH-THU-002	A16-07413	15/08/2016	274	276	1437068	ICP	4.55	<5	<0.2	<0.5	28		54	5	3	91	44	13	<1	0.46			
DDH-THU-002	A16-07413	15/08/2016	276	277.13	1437069	ICP	3.77	<5	<0.2	<0.5	33		20	3	3	41	50	13	<1	0.3			
DDH-THU-002	A16-07413	15/08/2016	277.13	278.4	1437071	ICP	3.26	<5	<0.2	<0.5	51		25	4	5	64	33	16	<1	0.35			
DDH-THU-002	A16-07413	15/08/2016	278.4	280	1437072	ICP	4.34	<5	<0.2	0.6	79		99	43	8	191	73	37	<1	0.8			
DDH-THU-002	A16-07413	15/08/2016	280	282	1437073	ICP	4.52	<5	<0.2	<0.5	136		12	5	3	98	33	22	<1	0.5			
DDH-THU-002	A16-07413	15/08/2016	282	284	1437074	ICP	5.04	<5	<0.2	<0.5	72		13	8	3	76	28	23	<1	0.6			
DDH-THU-002	A16-07413	15/08/2016	284	286	1437075	ICP	5.36	<5	<0.2	<0.5	88		3	7	4	63	26	33	<1	0.63			
DDH-THU-002	A16-07413	15/08/2016	286	288	1437076	ICP	5.04	<5	<0.2	0.7	111		1	6	5	69	18	36	<1	0.66			
DDH-THU-002	A16-07413	15/08/2016	288	290.1	1437077	ICP	5.27	<5	<0.2	<0.5	55		<1	3	2	66	13	23	<1	0.26			
DDH-THU-002	A16-07413	15/08/2016	290.1	292	1437078	ICP	4.47	5	<0.2	<0.5	353		<1	3	<2	46	48	43	2	0.14			
DDH-THU-002	A16-07413	15/08/2016	292	294	1437079	ICP	5.54	<5	<0.2	<0.5	311		<1	5	<2	76	12	22	<1	0.37			
DDH-THU-002	A16-07413	15/08/2016	294	296	1437081	ICP	5.11	<5	<0.2	<0.5	448		2	5	<2	57	9	30	<1	0.48			
DDH-THU-002	A16-07413	15/08/2016	296	297.55	1437082	ICP	5.31	<5	<0.2	<0.5	135		1	3	<2	45	21	26	<1	0.21			
DDH-THU-002	A16-07413	15/08/2016	297.55	299	1437083	ICP	5.65	<5	<0.2	<0.5	59		<1	4	2	55	15	32	<1	0.27			
DDH-THU-002	A16-07413	15/08/2016	299	300.65	1437084	ICP	6.48	<5	<0.2	<0.5	510		3	14	3	50	24	60	<1	1.05			
DDH-THU-002	A16-07413	15/08/2016	300.65	302.5	1437085	ICP	8.08	25	0.5	<0.5	3450		3	31	3	46	146	136	4	2.5			
DDH-THU-002	A16-07413	15/08/2016	302.5	304	1437086	ICP	6.85	22	<0.2	<0.5	1050		10	25	<2	45	124	98	3	2.39			
DDH-THU-002	A16-07413	15/08/2016	304	305.4	1437087	ICP	6.34	5	<0.2	<0.5	757		15	36	<2	30	190	151	<1	4.15			
DDH-THU-002	A16-07413	15/08/2016	305.4	307.55	1437088	ICP	8.43	6	<0.2	<0.5	855		218	38	<2	17	85	302	4	4.17			
DDH-THU-002	A16-07413	15/08/2016	307.55	309.45	1437089	ICP	3.28	18	0.2	<0.5	2660		55	3	3	70	34	60	<1	0.48			
DDH-THU-002	A16-07413	15/08/2016	309.45	311	1437091	ICP	6.65	39	0.4	<0.5	3730		6	10	4	28	65	218	<1	1.09			
DDH-THU-002	A16-07413	15/08/2016	311	312.5	1437092	ICP	5.19	7	<0.2	<0.5	473		3	2	<2	20	30	105	<1	0.66			
DDH-THU-002	A16-07412	11/08/2016	312.5	314	1437093	ICP	4.41	7	<0.2	<0.5	539		3	14	<2	16	31	121	<1	1.58			
DDH-THU-002	A16-07412	11/08/2016	314	315.65	1437094	ICP	3.76	<5	<0.2	<0.5	827		3	<1	<2	13	14	135	<1	0.58			
DDH-THU-002	A16-07412	11/08/2016	315.65	317	1437095	ICP	4.68	<5	<0.2	<0.5	383		2	17	<2	9	16	117	<1	1.43			
DDH-THU-002	A16-07412	11/08/2016	317	318	1437096	ICP	5.7	10	<0.2	<0.5	640		1	27	<2	7	23	244	<1	2.66			
DDH-THU-002	A16-07412	11/08/2016	318	320	1437097	ICP	4.03	12	<0.2	<0.5	1130		4	9	<2	13	34	261	<1	1.82			
DDH-THU-002	A16-07412	11/08/2016	320	322	1437098	ICP	2.85	6	<0.2	<0.5	401		<1	3	<2	18	11	43	<1	0.76			
DDH-THU-002	A16-07412	11/08/2016	322	324	1437099	ICP	2.91	5	<0.2	<0.5	1240		1	2	<2	19	17	36	<1	0.47			
DDH-THU-002	A16-07412	11/08/2016	324	326	1448379	ICP	3.83	<5	<0.2	<0.5	452		3	2	<2	20	21	33	<1	0.3			
DDH-THU-002	A16-07412	11/08/2016	326	328	1448380	ICP	3.16	<5	<0.2	<0.5	112		<1	1	<2	23	7	25	<1	0.39			
DDH-THU-002	A16-07412	11/08/2016	328	329.35	1448381	ICP	2.96	<5	<0.2	<0.5	209		<1	4	4	22	22	28	<1	0.7			
DDH-THU-002	A16-07412	11/08/2016	329.35	331.08	1448382	ICP	3.14	<5	<0.2	<0.5	715		<1	2	<2	29	43	43	<1	0.47			
DDH-THU-002	A16-07412	11/08/2016	331.08	332.6	1448002	ICP	9.12	134	5.7	<0.5	>10000	3.79	1	13	3	24	95	102	1	3.61			
DDH-THU-002	A16-07412	11/08/2016	332.6	334	1448003	ICP	4.29	10	0.2	<0.5	2960		1	2	3	14	58	49	<1	0.31			
DDH-THU-002	A16-07233	16/08/2016	334	335.4	1448004	ICP	5.07	18	0.8	<0.5	5570		4	4	<2	24	35	36	<1	0.61			
DDH-THU-002	A16-07233	16/08/2016	335.4	337	1448005	ICP	11.8	107	2.3	<0.5	>10000	2.08	9	66	4	24	382	450	<1	4.31			
DDH-THU-002	A16-07233	16/08/2016	337	338.8	1448006	ICP	14.6	267	4.1	<0.5	>10000	2.51	2	69	3	30	1060	974	<1	4.83			
DDH-THU-002	A16-07233	16/08/2016	338.8	340.5	1448007	ICP	23.4	92	2.8	<0.5	>10000	1.75	3	34	<2	27	94	188	<1	2.25			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	Report Number	Report Date	From (m)	To (m)	Sample Number	Analysis	Fe	Au	Ag	Cd	Cu	Cu	Mo	Ni	Pb	Zn	As	Co	Hg	S	Au	Pd	Pt
DDH-THU-002	A16-07233	16/08/2016	340.5	342	1448008	ICP	14.3	203	2.6	<0.5	>10000	1.14	2	52	<2	22	189	268	<1	2.73			
DDH-THU-002	A16-07233	16/08/2016	342	343.5	1448009	ICP	14.3	145	2.6	<0.5	>10000	1.39	<1	76	<2	42	231	426	2	4.83			
DDH-THU-002	A16-07233	16/08/2016	343.5	345	1448011	ICP	16.1	32	0.5	<0.5	3510		2	162	<2	19	88	1040	2	11.8			
DDH-THU-002	A16-07233	16/08/2016	345	346.5	1448012	ICP	13.2	11	<0.2	<0.5	1420		<1	54	<2	19	34	255	3	3.66			
DDH-THU-002	A16-07233	16/08/2016	346.5	348	1448013	ICP	9.22	46	0.5	<0.5	5230		8	31	<2	18	34	189	4	2.32			
DDH-THU-002	A16-07233	16/08/2016	348	349.5	1448014	ICP	4.97	6	<0.2	<0.5	420		<1	15	<2	7	9	84	<1	1.13	4	<5	<5
DDH-THU-002	A16-07233	16/08/2016	349.5	351	1448015	ICP	17.3	13	0.2	<0.5	1820		9	164	6	9	78	616	<1	10.7	4	11	15
DDH-THU-002	A16-07233	16/08/2016	351	353	1448016	ICP	11.4	7	<0.2	<0.5	853		7	91	<2	8	39	334	3	5.21	5	10	< 5
DDH-THU-002	A16-07233	16/08/2016	353	354.5	1448017	ICP	12.5	10	<0.2	<0.5	1020		<1	108	4	8	46	354	1	5.12	6	12	< 5
DDH-THU-002	A16-07233	16/08/2016	354.5	356	1448018	ICP	12.5	7	<0.2	<0.5	891		<1	94	<2	9	28	330	2	5.1	4	< 5	< 5
DDH-THU-002	A16-07233	16/08/2016	356	357.84	1448019	ICP	14.1	8	<0.2	<0.5	1320		<1	155	3	8	43	439	1	7.83	20	< 5	17
DDH-THU-002	A16-07233	16/08/2016	357.84	359.5	1448021	ICP	5.84	<5	<0.2	<0.5	282		7	15	<2	8	14	102	1	0.92			
DDH-THU-002	A16-07233	16/08/2016	359.5	361	1448022	ICP	6.92	5	<0.2	<0.5	710		7	12	<2	6	8	74	3	0.77			
DDH-THU-002	A16-07233	16/08/2016	361	362.5	1448023	ICP	9.67	75	1	<0.5	7160		7	26	3	13	160	399	2	2.11			
DDH-THU-002	A16-07233	16/08/2016	362.5	364	1448024	ICP	6.54	24	0.3	<0.5	3760		7	9	3	7	39	119	<1	0.89			
DDH-THU-002	A16-07233	16/08/2016	364	365.5	1448025	ICP	4.1	42	0.3	<0.5	3630		7	3	<2	8	13	32	<1	0.46			
DDH-THU-002	A16-07233	16/08/2016	365.5	367	1448026	ICP	4.89	101	0.7	<0.5	8820		7	5	<2	9	15	78	<1	1.16			
DDH-THU-002	A16-07233	16/08/2016	367	368.5	1448027	ICP	5.77	61	1	<0.5	>10000	1.6	6	12	<2	11	15	92	3	1.87			
DDH-THU-002	A16-07233	16/08/2016	368.5	370	1448028	ICP	7.21	92	0.9	<0.5	>10000	1.39	7	11	4	13	15	148	<1	1.82			
DDH-THU-002	A16-07233	16/08/2016	370	371	1448029	ICP	6.52	43	1.4	<0.5	>10000	1.9	<1	7	<2	13	16	65	<1	1.84			
DDH-THU-002	A16-07233	16/08/2016	371	372.65	1448031	ICP	4.29	19	0.3	<0.5	4630		<1	5	<2	13	5	46	1	0.67			
DDH-THU-002	A16-07233	16/08/2016	372.65	374	1448032	ICP	8.46	272	2.6	<0.5	>10000	3.75	<1	9	2	15	21	181	2	2.98			
DDH-THU-002	A16-07233	16/08/2016	374	375.7	1448033	ICP	9.92	151	2.1	<0.5	>10000	3.03	<1	10	<2	16	11	131	2	2.55			
DDH-THU-002	A16-07233	16/08/2016	375.7	377	1448034	ICP	10.8	84	1.8	<0.5	>10000	2.08	<1	9	<2	15	16	87	<1	2.02			
DDH-THU-002	A16-07233	16/08/2016	377	378.8	1448035	ICP	10.1	11	0.8	<0.5	>10000	1.15	2	9	<2	16	33	43	2	1.02			
DDH-THU-002	A16-07233	16/08/2016	378.8	380	1448036	ICP	14.2	185	2.5	<0.5	>10000	4.08	<1	50	10	22	25	296	3	5.27			
DDH-THU-002	A16-07233	16/08/2016	380	381.5	1448037	ICP	13.7	123	1.7	<0.5	>10000	2.22	<1	9	2	21	11	116	3	2.37			
DDH-THU-002	A16-07233	16/08/2016	381.5	383	1448038	ICP	9.28	67	1.2	<0.5	>10000	1.98	10	6	4	19	21	49	2	1.66			
DDH-THU-002	A16-07233	16/08/2016	383	384.7	1448039	ICP	15.1	88	1.7	<0.5	>10000	2.28	<1	11	4	23	4	52	2	2.29			
DDH-THU-002	A16-07233	16/08/2016	384.7	386.5	1448041	ICP	14.1	74	2.8	<0.5	>10000	3.8	<1	7	2	26	7	39	1	3.01			
DDH-THU-002	A16-07233	16/08/2016	386.5	388	1448042	ICP	9.83	36	0.5	<0.5	7360		5	10	<2	15	6	32	2	0.87			
DDH-THU-002	A16-07233	16/08/2016	388	389.23	1448043	ICP	12.1	13	0.3	<0.5	5250		10	8	4	11	3	28	<1	0.64			
DDH-THU-002	A16-07233	16/08/2016	389.23	391.33	1448044	ICP	12	44	0.4	<0.5	4250		1	10	<2	7	7	77	3	0.97			
DDH-THU-002	A16-07233	16/08/2016	391.33	393	1448045	ICP	11.7	44	0.8	<0.5	>10000	1.61	<1	8	<2	9	7	25	2	1.43			
DDH-THU-002	A16-07233	16/08/2016	393	395	1448046	ICP	8.53	79	0.7	<0.5	9250		<1	27	<2	16	6	184	2	2.93			
DDH-THU-002	A16-07233	16/08/2016	395	395.9	1448047	ICP	3.27	5	<0.2	<0.5	2310		2	5	<2	23	<2	13	<1	0.28			
DDH-THU-002	A16-07233	16/08/2016	395.9	397.4	1448048	ICP	6.35	13	0.3	<0.5	4970		<1	7	<2	14	<2	13	1	0.52			
DDH-THU-002	A16-07233	16/08/2016	397.4	398.35	1448049	ICP	2.23	<5	<0.2	<0.5	163		7	5	<2	11	6	9	<1	0.05			
DDH-THU-002	A16-07233	16/08/2016	398.35	400.2	1448351	ICP	5.33	48	0.3	<0.5	4280		1	8	<2	13	<2	15	<1	0.48			
DDH-THU-002	A16-07233	16/08/2016	400.2	402.5	1448352	ICP	5.99	10	0.3	<0.5	7830		<1	6	<2	18	2	15	<1	0.8			
DDH-THU-002	A16-07233	16/08/2016	402.5	404.7	1448353	ICP	5.35	23	<0.2	<0.5	4350		<1	6	<2	21	<2	14	<1	0.43			
DDH-THU-002	A16-07233	16/08/2016	404.7	407.3	1448354	ICP	3.84	9	<0.2	<0.5	2150		2	3	5	17	<2	14	<1	0.26			
DDH-THU-002	A16-07233	16/08/2016	407.3	408.55	1448355	ICP	4.4	6	<0.2	<0.5	2970		<1	7	5	18	<2	14	<1	0.34			
DDH-THU-002	A16-07233	16/08/2016	408.55	411.5	1448356	ICP	4.1	<5	<0.2	<0.5	1150		<1	5	<2	21	<2	11	<1	0.14			
DDH-THU-002	A16-07233	16/08/2016	411.5	412.8	1448357	ICP	3.43	<5	<0.2	<0.5	433		<1	3	<2	27	<2	14	<1	0.15			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-002	A16-07233	16/08/2016	412.8	415	1448358	ICP	7.42	13	0.3	<0.5	6400		<1	9	<2	16	<2	19	1	0.66			
DDH-THU-002	A16-07233	16/08/2016	415	417	1448359	ICP	16.3	329	1.8	<0.5	>10000	3.85	1	55	<2	16	43	508	<1	5.89			
DDH-THU-002	A16-07233	16/08/2016	417	419	1448361	ICP	6.76	<5	<0.2	0.5	231		<1	126	7	73	15	33	<1	0.49			
DDH-THU-002	A16-07233	16/08/2016	419	421.23	1448362	ICP	6.85	<5	<0.2	<0.5	95		<1	110	<2	65	12	33	<1	0.64			
DDH-THU-002	A16-07233	16/08/2016	421.23	423.5	1448363	ICP	4.81	<5	<0.2	<0.5	43		<1	12	<2	55	<2	15	2	0.03			
DDH-THU-002	A16-07233	16/08/2016	423.5	425.25	1448364	ICP	4.49	<5	<0.2	<0.5	41		<1	9	2	54	3	13	<1	0.02			
DDH-THU-002	A16-07233	16/08/2016	425.25	426	1448365	ICP	5.78	<5	<0.2	1.5	199		<1	56	52	79	5	26	3	0.08			
DDH-THU-002	A16-07233	16/08/2016	426	428	1448366	ICP	2.29	<5	<0.2	<0.5	137		7	11	3	41	3	11	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	428	430	1448367	ICP	3.27	<5	<0.2	<0.5	101		<1	12	3	55	3	16	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	430	432	1448368	ICP	3.95	<5	<0.2	<0.5	129		1	19	4	58	8	18	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	432	434	1448369	ICP	3.38	<5	<0.2	<0.5	88		<1	14	2	55	<2	15	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	434	436	1448371	ICP	4.43	<5	<0.2	0.5	107		<1	19	<2	66	<2	21	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	436	438	1448372	ICP	4.21	<5	<0.2	0.7	78		<1	19	3	64	2	21	<1	<0.01			
DDH-THU-002	A16-07233	16/08/2016	438	440	1448373	ICP	3.67	<5	<0.2	<0.5	141		<1	15	3	56	3	17	<1	<0.01			
DDH-THU-002	A16-07233	16/08/2016	440	442	1448374	ICP	4.16	<5	<0.2	<0.5	140		<1	18	<2	55	3	17	<1	<0.01			
DDH-THU-002	A16-07233	16/08/2016	442	444	1448375	ICP	3.95	<5	<0.2	<0.5	129		<1	16	<2	48	3	16	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016	444	446	1448376	ICP	4.27	<5	<0.2	<0.5	159		<1	15	3	55	3	17	<1	<0.01			
DDH-THU-002	A16-07233	16/08/2016	446	448.06	1448377	ICP	3.73	<5	<0.2	<0.5	119		<1	13	<2	44	2	15	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016			1437010	CDN-CM-26	5.37	359	2.7	3.5	2680		21	21	70	671	52	13	<1	3.38			
DDH-THU-002	A16-07413	15/08/2016			1437020	CDN-CM-33	3.85	9	2.2	1	3520		259	202	18	163	24	29	<1	2.2			
DDH-THU-002	A16-07413	15/08/2016			1437030	BLANK	1.26	<5	<0.2	<0.5	2		2	<1	8	23	<2	1	<1	<0.01			
DDH-THU-002	A16-07413	15/08/2016			1437040	CDN-CM-39	6.52	630	5.5	5.7	5690		149	15	112	973	24	14	4	4.41			
DDH-THU-002	A16-07413	15/08/2016			1437050	CDN-CM-26	5.09	382	2.5	3.1	2570		21	20	68	633	58	12	<1	3.1			
DDH-THU-002	A16-07413	15/08/2016			1437060	BLANK	1.34	<5	<0.2	<0.5	4		2	2	10	29	<2	1	<1	0.01			
DDH-THU-002	A16-07413	15/08/2016			1437070	CDN-CM-39	6.03	679	5.1	5	5290		140	15	108	897	24	14	<1	3.91			
DDH-THU-002	A16-07413	15/08/2016			1437080	CDN-CM-33	3.65	12	2.3	1.3	3280		248	193	18	154	32	28	<1	2.15			
DDH-THU-002	A16-07413	15/08/2016			1437090	BLANK	1.2	<5	<0.2	<0.5	14		5	<1	8	29	<2	2	<1	0.03			
DDH-THU-002	A16-07412	11/08/2016			1437100	CDN-CM-26	5.24	432	2.4	3.2	2610		19	21	67	649	52	12	<1	3.31			
DDH-THU-002	A16-07233	16/08/2016			1448010	CDN-CM-33	3.73	25	2.1	1.1	3390		243	202	19	162	24	34	<1	2.34			
DDH-THU-002	A16-07233	16/08/2016			1448020	CDN-CM-39	4.65	681	3.8	5.3	4070		113	13	97	770	23	14	<1	3.58			
DDH-THU-002	A16-07233	16/08/2016			1448030	BLANK	1.1	<5	<0.2	<0.5	44		3	2	8	21	<2	2	<1	0.02			
DDH-THU-002	A16-07233	16/08/2016			1448040	CDN-CM-26	4.68	410	2.2	3.2	2300		17	20	66	619	40	13	<1	3.12			
DDH-THU-002	A16-07233	16/08/2016			1448050	CDN-CM-39	5.65	659	4.8	5.4	4910		130	15	113	882	29	14	1	4.06			
DDH-THU-002	A16-07233	16/08/2016			1448360	BLANK	1.1	<5	<0.2	<0.5	14		<1	2	8	22	<2	1	<1	0.01			
DDH-THU-002	A16-07233	16/08/2016			1448370	CDN-CM-26	4.77	400	2.3	3.2	2330		18	20	69	631	46	13	<1	3.21			
DDH-THU-002	A16-07233	16/08/2016			1448378	CDN-CM-33	3.46	39	1.9	1.3	3130		229	194	17	156	19	31	<1	2.16			
DDH-THU-002	A16-07412	11/08/2016			1448383	BLANK	1.26	<5	<0.2	<0.5	3		3	1	8	23	<2	1	<1	0.02			
DDH-THU-003	A16-07535	17/08/2016	2.4	3.87	1437101	ICP	7.42	26	0.4	0.5	2250		29	15	3	29	10	11	< 1	0.1			
DDH-THU-003	A16-07535	17/08/2016	3.87	5.3	1437102	ICP	23.9	16	0.2	< 0.5	8670		49	19	< 2	11	6	12	< 1	0.7			
DDH-THU-003	A16-07535	17/08/2016	5.3	7	1437104	ICP	5.37	< 5	< 0.2	< 0.5	321		5	23	< 2	48	< 2	25	1	0.01			
DDH-THU-003	A16-07535	17/08/2016	7	9	1437105	ICP	4.24	< 5	< 0.2	< 0.5	44		12	20	< 2	80	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	9	11	1437106	ICP	4.65	< 5	< 0.2	< 0.5	297		16	26	2	83	3	22	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	11	13	1437107	ICP	4.32	6	< 0.2	< 0.5	191		25	22	< 2	80	< 2	22	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	13	15	1437108	ICP	4.28	< 5	< 0.2	< 0.5	193		2	23	3	57	< 2	23	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	15	17	1437109	ICP	3.97	< 5	< 0.2	< 0.5	177		2	19	< 2	51	< 2	22	< 1	0.01			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-003	A16-07535	17/08/2016	17	19	1437110	ICP	4.14	< 5	< 0.2	< 0.5	96		3	20	< 2	40	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	19	21	1437111	ICP	4.14	< 5	< 0.2	< 0.5	103		3	18	< 2	47	3	25	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	21	23	1437112	ICP	4.4	6	< 0.2	< 0.5	115		2	20	< 2	62	< 2	26	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	23	25	1437114	ICP	4.01	< 5	< 0.2	< 0.5	159		3	17	< 2	48	< 2	22	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	25	27	1437115	ICP	4.3	< 5	< 0.2	< 0.5	331		3	21	< 2	51	< 2	24	< 1	0.02			
DDH-THU-003	A16-07535	17/08/2016	27	29	1437116	ICP	4.28	5	< 0.2	< 0.5	203		2	25	< 2	65	< 2	24	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	29	31	1437117	ICP	4.26	< 5	< 0.2	< 0.5	228		1	22	< 2	67	< 2	25	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	31	33	1437118	ICP	4.37	< 5	< 0.2	< 0.5	150		< 1	21	2	58	3	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	33	35	1437119	ICP	4.54	< 5	< 0.2	< 0.5	412		< 1	23	< 2	55	< 2	24	1	0.01			
DDH-THU-003	A16-07535	17/08/2016	35	36.25	1437120	ICP	4.06	< 5	0.3	< 0.5	913		4	19	< 2	78	< 2	21	< 1	0.03			
DDH-THU-003	A16-07535	17/08/2016	36.25	38.2	1437121	ICP	1.15	< 5	< 0.2	< 0.5	46		< 1	9	< 2	30	< 2	10	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	38.2	40.3	1437122	ICP	1.3	< 5	< 0.2	< 0.5	33		< 1	10	< 2	31	< 2	10	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	40.3	42	1437124	ICP	4.02	< 5	< 0.2	< 0.5	131		1	22	< 2	53	3	22	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	42	44.05	1437125	ICP	3.88	< 5	< 0.2	< 0.5	89		< 1	24	< 2	51	< 2	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	44.05	46.05	1437126	ICP	3.82	< 5	< 0.2	< 0.5	95		< 1	19	< 2	59	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	46.05	48	1437127	ICP	3.95	< 5	< 0.2	< 0.5	77		19	20	< 2	73	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	48	50	1437128	ICP	4.15	< 5	< 0.2	0.5	126		2	23	< 2	59	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	50	52	1437129	ICP	4.01	< 5	< 0.2	< 0.5	125		5	18	3	58	3	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	52	54	1437130	ICP	4.09	< 5	2.2	< 0.5	3420		29	20	< 2	56	< 2	20	< 1	0.12			
DDH-THU-003	A16-07535	17/08/2016	54	56	1437131	ICP	4.08	< 5	< 0.2	< 0.5	155		3	19	< 2	46	3	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	56	58	1437132	ICP	4.04	< 5	< 0.2	< 0.5	108		3	18	< 2	50	12	20	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	58	60	1437134	ICP	3.97	< 5	< 0.2	< 0.5	111		< 1	17	< 2	50	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	60	62	1437135	ICP	3.67	6	< 0.2	< 0.5	103		1	18	< 2	36	< 2	17	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	62	64	1437136	ICP	3.7	< 5	< 0.2	< 0.5	147		3	18	2	29	< 2	18	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	64	66	1437137	ICP	4.15	5	< 0.2	< 0.5	162		2	20	< 2	42	< 2	22	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	66	68	1437138	ICP	4.09	< 5	< 0.2	< 0.5	154		2	20	< 2	38	< 2	22	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	68	70	1437139	ICP	4.33	< 5	< 0.2	< 0.5	113		2	20	< 2	46	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	70	72	1437140	ICP	4.15	< 5	< 0.2	< 0.5	167		2	19	< 2	50	< 2	23	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	72	74	1437141	ICP	4.22	< 5	< 0.2	< 0.5	191		2	21	< 2	53	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	74	76	1437142	ICP	3.9	< 5	< 0.2	< 0.5	138		2	18	< 2	53	3	22	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	76	78	1437144	ICP	3.94	< 5	< 0.2	< 0.5	103		6	20	< 2	47	< 2	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	78	80	1437145	ICP	3.73	< 5	< 0.2	< 0.5	58		< 1	21	< 2	35	< 2	19	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	80	82	1437146	ICP	3.62	21	< 0.2	< 0.5	91		< 1	18	< 2	37	< 2	19	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	82	84	1437147	ICP	3.44	< 5	< 0.2	< 0.5	76		1	17	< 2	41	< 2	18	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	84	86	1437148	ICP	3.76	< 5	< 0.2	< 0.5	101		< 1	20	< 2	52	< 2	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	86	88	1437149	ICP	4.01	5	< 0.2	< 0.5	107		< 1	21	< 2	55	3	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	88	90	1437150	ICP	3.65	6	< 0.2	< 0.5	97		< 1	19	2	48	< 2	19	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	90	92	1437151	ICP	3.95	< 5	< 0.2	< 0.5	120		1	20	< 2	59	3	22	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	92	94	1437152	ICP	3.33	< 5	< 0.2	< 0.5	82		< 1	19	2	54	3	19	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	94	96	1437154	ICP	4.41	< 5	< 0.2	< 0.5	113		1	24	< 2	59	3	24	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	96	98	1437155	ICP	4.33	12	< 0.2	< 0.5	170		1	22	3	57	< 2	23	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	98	100	1437156	ICP	4.19	7	< 0.2	< 0.5	213		10	25	< 2	66	< 2	21	< 1	0.02			
DDH-THU-003	A16-07535	17/08/2016	100	102	1437157	ICP	4.58	17	< 0.2	< 0.5	79		1	27	< 2	67	< 2	24	3	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	102	104	1437158	ICP	4.25	< 5	< 0.2	< 0.5	121		< 1	23	< 2	49	3	21	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	104	106	1437159	ICP	3.78	< 5	< 0.2	< 0.5	110		< 1	21	< 2	53	< 2	20	< 1	< 0.01			

Hole ID	Report Number	Report Date	From (m)	To (m)	Sample Number	Analysis	Fe	Au	Ag	Cd	Cu	Cu	Mo	Ni	Pb	Zn	As	Co	Hg	S	Au	Pd	Pt
Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
DDH-THU-003	A16-07535	17/08/2016	106	108	1437160	ICP	4.07	< 5	< 0.2	< 0.5	138		< 1	21	< 2	60	3	23	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	108	110	1437161	ICP	4.03	< 5	< 0.2	< 0.5	127		1	22	< 2	55	< 2	23	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	110	112	1437162	ICP	3.94	< 5	< 0.2	< 0.5	154		1	21	< 2	53	< 2	20	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	112	114	1437164	ICP	4.02	< 5	< 0.2	< 0.5	137		3	20	< 2	57	11	21	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	114	116	1437165	ICP	4.23	6	< 0.2	< 0.5	192		8	23	< 2	64	< 2	24	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016	116	118	1437166	ICP	4.31	< 5	< 0.2	< 0.5	120		1	25	2	60	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	118	120	1437167	ICP	4.41	< 5	< 0.2	< 0.5	217		1	24	< 2	63	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	120	122	1437168	ICP	4.16	< 5	< 0.2	< 0.5	116		8	24	2	67	< 2	22	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	122	124	1437169	ICP	4.11	8	< 0.2	< 0.5	127		3	21	< 2	67	< 2	21	1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	124	126	1437170	ICP	4.45	< 5	< 0.2	< 0.5	176		6	25	< 2	75	< 2	24	3	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	126	128	1437171	ICP	4.26	9	< 0.2	< 0.5	110		< 1	23	2	65	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	128	130	1437172	ICP	3.94	36	< 0.2	< 0.5	79		< 1	22	< 2	87	< 2	19	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	130	132	1437174	ICP	4.09	< 5	< 0.2	< 0.5	144		< 1	26	3	71	< 2	25	4	0.01			
DDH-THU-003	A16-07535	17/08/2016	132	134	1437175	ICP	4.2	< 5	< 0.2	< 0.5	152		1	24	< 2	59	< 2	25	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016	134	136.25	1437176	ICP	4.3	< 5	< 0.2	< 0.5	119		< 1	23	< 2	58	< 2	24	< 1	< 0.01			
DDH-THU-003	A16-07535	17/08/2016			1437103	BLANK	1.26	< 5	< 0.2	< 0.5	14		4	2	8	25	< 2	1	< 1	0.02			
DDH-THU-003	A16-07535	17/08/2016			1437113	CDN-CM-39	6.09	803	5.2	5.8	5340		143	16	109	930	26	16	1	4.15			
DDH-THU-003	A16-07535	17/08/2016			1437123	CDN-CM-26	5.22	387	2.5	3.5	2480		21	21	72	671	50	15	2	3.34			
DDH-THU-003	A16-07535	17/08/2016			1437133	BLANK	1.25	< 5	< 0.2	< 0.5	3		4	2	9	25	< 2	1	< 1	0.02			
DDH-THU-003	A16-07535	17/08/2016			1437143	CDN-CM-33	3.95	23	2.5	1.1	3530		266	229	24	169	28	39	< 1	2.32			
DDH-THU-003	A16-07535	17/08/2016			1437153	CDN-CM-26	5.07	361	2.4	3.4	2470		20	22	66	646	49	15	< 1	3.24			
DDH-THU-003	A16-07535	17/08/2016			1437163	BLANK	1	21	< 0.2	< 0.5	2		3	2	7	22	10	1	< 1	0.01			
DDH-THU-003	A16-07535	17/08/2016			1437173	CDN-CM-39	5.63	583	4.8	5.2	4960		135	16	103	866	24	15	2	3.85			
DDH-THU-004	A16-07536	17/08/2016	2.44	4.22	1437201	ICP	22.5	50	0.4	< 0.5	> 10000	1.3	87	21	3	14	< 2	12	< 1	0.39			
DDH-THU-004	A16-07536	17/08/2016	4.22	6	1437202	ICP	5.36	< 5	< 0.2	< 0.5	191		6	23	< 2	51	< 2	23	2	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	6	8	1437203	ICP	4.66	< 5	< 0.2	< 0.5	225		3	20	3	56	< 2	24	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	8	10	1437204	ICP	4.27	< 5	< 0.2	< 0.5	106		7	18	< 2	55	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	10	12	1437205	ICP	4.25	< 5	< 0.2	< 0.5	113		4	20	< 2	54	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	12	14	1437206	ICP	4.01	< 5	< 0.2	< 0.5	92		3	18	< 2	52	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	14	16	1437207	ICP	4.28	< 5	< 0.2	< 0.5	45		3	20	3	56	2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	16	18	1437208	ICP	4.03	< 5	< 0.2	< 0.5	134		2	17	3	52	< 2	23	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	18	20	1437209	ICP	4.2	< 5	< 0.2	< 0.5	294		3	21	3	54	< 2	23	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	20	22	1437211	ICP	4.14	16	< 0.2	< 0.5	228		4	18	< 2	48	3	23	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	22	24	1437212	ICP	4.17	27	< 0.2	< 0.5	117		3	21	3	44	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	24	26	1437213	ICP	4.02	< 5	< 0.2	< 0.5	261		3	18	< 2	36	< 2	18	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	26	27.5	1437214	ICP	4.09	< 5	< 0.2	< 0.5	144		2	19	< 2	44	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	27.5	29	1437215	ICP	3.45	< 5	< 0.2	< 0.5	82		11	20	3	50	< 2	17	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	29	31	1437216	ICP	3.28	36	< 0.2	< 0.5	85		2	20	2	50	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	31	33	1437217	ICP	0.26	< 5	< 0.2	< 0.5	17		< 1	2	< 2	6	< 2	9	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	33	34.25	1437218	ICP	0.23	< 5	< 0.2	< 0.5	21		1	< 1	< 2	6	< 2	9	1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	34.25	35.3	1437219	ICP	0.53	< 5	< 0.2	< 0.5	21		3	3	< 2	9	10	11	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	35.3	37	1437221	ICP	3.89	< 5	< 0.2	< 0.5	296		3	19	< 2	56	< 2	22	< 1	0.03			
DDH-THU-004	A16-07536	17/08/2016	37	39	1437222	ICP	3.86	8	< 0.2	< 0.5	131		2	18	3	56	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	39	41	1437223	ICP	4.05	18	< 0.2	< 0.5	136		4	19	3	53	3	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	41	43	1437224	ICP	4.05	< 5	< 0.2	< 0.5	132		2	19	5	59	2	22	< 1	< 0.01			

Hole ID	Report Number	Report Date	From (m)	To (m)	Sample Number	Analysis	Fe	Au	Ag	Cd	Cu	Cu	Mo	Ni	Pb	Zn	As	Co	Hg	S	Au	Pd	Pt
Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							0.01	5	0.2	0.5	1		1	1	2	2	2	1	1	0.01	2	5	5
DDH-THU-004	A16-07536	17/08/2016	43	45	1437225	ICP	3.87	< 5	< 0.2	< 0.5	132		5	17	3	51	< 2	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	45	47	1437226	ICP	4.3	< 5	< 0.2	< 0.5	142		2	20	< 2	59	< 2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	47	49	1437227	ICP	4.23	< 5	< 0.2	< 0.5	250		2	21	< 2	59	< 2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	49	51	1437228	ICP	4.2	< 5	< 0.2	< 0.5	140		1	22	< 2	57	< 2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	51	53	1437229	ICP	4.18	< 5	< 0.2	< 0.5	133		2	19	< 2	61	2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	53	55	1437231	ICP	4.12	< 5	< 0.2	< 0.5	176		2	21	< 2	61	< 2	22	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	55	57	1437232	ICP	4.09	< 5	< 0.2	< 0.5	170		1	19	< 2	37	< 2	23	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	57	59	1437233	ICP	3.28	< 5	< 0.2	< 0.5	112		4	17	< 2	25	< 2	16	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	59	61	1437234	ICP	4.1	< 5	< 0.2	< 0.5	173		1	21	< 2	40	3	21	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	61	63	1437235	ICP	3.37	< 5	< 0.2	< 0.5	55		2	15	< 2	29	< 2	16	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	63	65	1437236	ICP	3.94	< 5	< 0.2	< 0.5	29		< 1	24	< 2	38	< 2	18	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	65	67	1437237	ICP	3.96	< 5	< 0.2	< 0.5	25		1	24	< 2	51	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	67	69	1437238	ICP	4.24	< 5	< 0.2	< 0.5	45		1	25	< 2	52	< 2	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	69	71	1437239	ICP	4.04	< 5	< 0.2	< 0.5	76		12	23	< 2	48	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	71	73.25	1437241	ICP	4.15	< 5	< 0.2	< 0.5	88		29	22	< 2	50	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	73.25	75	1437242	ICP	3.85	< 5	< 0.2	< 0.5	77		3	21	< 2	53	< 2	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	75	77.05	1437243	ICP	4.03	< 5	< 0.2	< 0.5	203		1	21	2	51	< 2	21	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	77.05	79	1437244	ICP	3.82	< 5	< 0.2	< 0.5	151		2	19	2	49	4	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	79	81	1437245	ICP	3.1	< 5	< 0.2	< 0.5	80		2	15	< 2	42	12	17	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	81	83	1437246	ICP	3.99	< 5	< 0.2	< 0.5	133		2	20	< 2	54	4	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	83	85	1437247	ICP	3.96	< 5	< 0.2	< 0.5	124		1	20	< 2	50	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	85	87	1437248	ICP	4	< 5	< 0.2	< 0.5	90		3	22	< 2	51	2	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	87	89	1437249	ICP	3.92	< 5	< 0.2	< 0.5	169		2	20	< 2	51	< 2	19	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	89	91	1437251	ICP	3.3	< 5	< 0.2	< 0.5	88		3	17	< 2	44	< 2	17	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	91	93	1437252	ICP	3.34	< 5	< 0.2	< 0.5	111		1	11	< 2	41	2	17	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	93	95	1437253	ICP	3.78	< 5	< 0.2	< 0.5	139		1	13	2	47	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	95	97	1437254	ICP	3.74	11	< 0.2	< 0.5	133		1	17	< 2	40	< 2	19	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	97	99	1437255	ICP	4.16	< 5	< 0.2	< 0.5	136		1	16	< 2	54	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	99	101	1437256	ICP	4.04	< 5	< 0.2	< 0.5	113		1	16	< 2	57	3	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	101	103	1437257	ICP	4.05	< 5	< 0.2	< 0.5	127		< 1	18	< 2	56	< 2	23	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	103	105	1437258	ICP	3.72	< 5	< 0.2	< 0.5	100		< 1	18	< 2	49	< 2	19	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	105	107	1437259	ICP	3.66	< 5	< 0.2	< 0.5	117		< 1	15	< 2	48	3	18	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	107	109	1437261	ICP	2.87	< 5	< 0.2	< 0.5	70		< 1	11	< 2	41	< 2	14	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	109	111	1437262	ICP	3.73	15	< 0.2	< 0.5	170		5	16	2	57	3	20	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	111	113	1437263	ICP	3.8	< 5	< 0.2	< 0.5	214		1	17	< 2	60	< 2	19	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	113	115	1437264	ICP	4.35	13	< 0.2	< 0.5	142		2	19	< 2	55	< 2	23	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	115	117	1437265	ICP	4.19	< 5	< 0.2	< 0.5	199		2	18	< 2	56	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	117	119	1437266	ICP	4.29	< 5	< 0.2	< 0.5	131		2	19	< 2	54	< 2	23	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	119	121	1437267	ICP	4.1	< 5	< 0.2	< 0.5	180		2	17	< 2	53	< 2	23	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	121	123	1437268	ICP	4.22	< 5	< 0.2	< 0.5	170		1	17	< 2	53	4	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	123	125	1437269	ICP	3.99	< 5	< 0.2	< 0.5	241		2	18	< 2	54	< 2	23	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	125	127	1437271	ICP	3.99	< 5	< 0.2	< 0.5	146		2	16	< 2	53	4	21	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	127	129	1437272	ICP	3.81	< 5	< 0.2	< 0.5	147		2	15	3	51	< 2	20	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	129	131	1437273	ICP	3.68	< 5	< 0.2	< 0.5	125		< 1	16	< 2	50	3	17	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	131	133	1437274	ICP	4.11	< 5	< 0.2	< 0.5	116		1	17	< 2	51	< 2	22	< 1	< 0.01			

Method							AR-ICP	FA-AA	AR-ICP	AR-ICP	AR-ICP	ICP-OES	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP
Unit Symbol							%	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppb	ppb
Detection Limit							**0.01**	**5**	**0.2**	**0.5**	**1**		**1**	**1**	**2**	**2**	**2**	**1**	**1**	**0.01**	**2**	**5**	**5**
Hole ID	**Report Number**	**Report Date**	**From (m)**	**To (m)**	**Sample Number**	**Analysis**	**Fe**	**Au**	**Ag**	**Cd**	**Cu**	**Cu**	**Mo**	**Ni**	**Pb**	**Zn**	**As**	**Co**	**Hg**	**S**	**Au**	**Pd**	**Pt**
DDH-THU-004	A16-07536	17/08/2016	133	135	1437275	ICP	3.92	< 5	< 0.2	< 0.5	225		3	19	< 2	54	11	22	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	135	137	1437276	ICP	4.11	< 5	< 0.2	< 0.5	140		3	17	< 2	54	5	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	137	139	1437277	ICP	4.26	< 5	< 0.2	< 0.5	165		2	20	< 2	58	< 2	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	139	141	1437278	ICP	4.11	< 5	< 0.2	0.7	143		2	19	4	60	< 2	22	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	141	143	1437279	ICP	4.13	< 5	< 0.2	< 0.5	320		2	20	2	56	3	23	< 1	0.02			
DDH-THU-004	A16-07536	17/08/2016	143	145	1437281	ICP	3.97	< 5	< 0.2	< 0.5	76		3	18	< 2	57	3	22	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	145	147	1437282	ICP	4.05	< 5	< 0.2	< 0.5	121		2	17	2	59	3	24	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	147	149	1437283	ICP	4.08	< 5	< 0.2	< 0.5	185		2	18	< 2	56	< 2	23	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	149	151	1437284	ICP	4.16	< 5	< 0.2	0.5	108		2	17	< 2	57	< 2	21	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	151	153	1437285	ICP	4	< 5	< 0.2	< 0.5	160		2	19	< 2	55	< 2	22	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	153	155	1437286	ICP	4.45	< 5	< 0.2	< 0.5	173		2	22	< 2	56	< 2	25	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	155	157	1437287	ICP	4.39	< 5	< 0.2	< 0.5	125		1	21	< 2	60	< 2	25	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	157	159	1437288	ICP	4.37	< 5	< 0.2	< 0.5	166		2	21	< 2	58	< 2	25	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	159	161	1437289	ICP	4.1	< 5	< 0.2	< 0.5	183		2	21	< 2	55	< 2	22	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016	161	162.5	1437291	ICP	4.11	< 5	< 0.2	< 0.5	88		2	21	< 2	55	< 2	22	< 1	< 0.01			
DDH-THU-004	A16-07536	17/08/2016	162.5	163.88	1437292	ICP	4.26	< 5	< 0.2	< 0.5	196		2	22	< 2	57	< 2	24	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016			1437210	STANDARD	6.1	655	5.6	5.7	5330		147	17	112	923	27	17	2	4.21			
DDH-THU-004	A16-07536	17/08/2016			1437220	STANDARD	5.23	318	2.4	3.7	2480		20	24	67	665	52	14	3	3.29			
DDH-THU-004	A16-07536	17/08/2016			1437230	BLANK	1.32	< 5	< 0.2	< 0.5	3		2	2	9	24	< 2	1	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016			1437240	STANDARD	3.57	23	2	1.2	3220		242	201	17	158	24	34	< 1	2.09			
DDH-THU-004	A16-07536	17/08/2016			1437250	STANDARD	3.57	26	2.1	1.1	3250		234	203	16	156	22	35	< 1	2.11			
DDH-THU-004	A16-07536	17/08/2016			1437260	BLANK	1.31	< 5	< 0.2	< 0.5	3		2	3	9	22	< 2	2	< 1	0.01			
DDH-THU-004	A16-07536	17/08/2016			1437270	STANDARD	4.9	325	2.3	3.3	2400		19	23	68	646	48	15	2	3.1			
DDH-THU-004	A16-07536	17/08/2016			1437280	STANDARD	5.82	644	5	5.7	5070		144	16	109	911	29	16	1	4.08			
DDH-THU-004	A16-07536	17/08/2016			1437290	BLANK	1.3	< 5	< 0.2	< 0.5	3		1	2	9	28	< 2	1	< 1	< 0.01			

Appendix VIII

Cross Sections

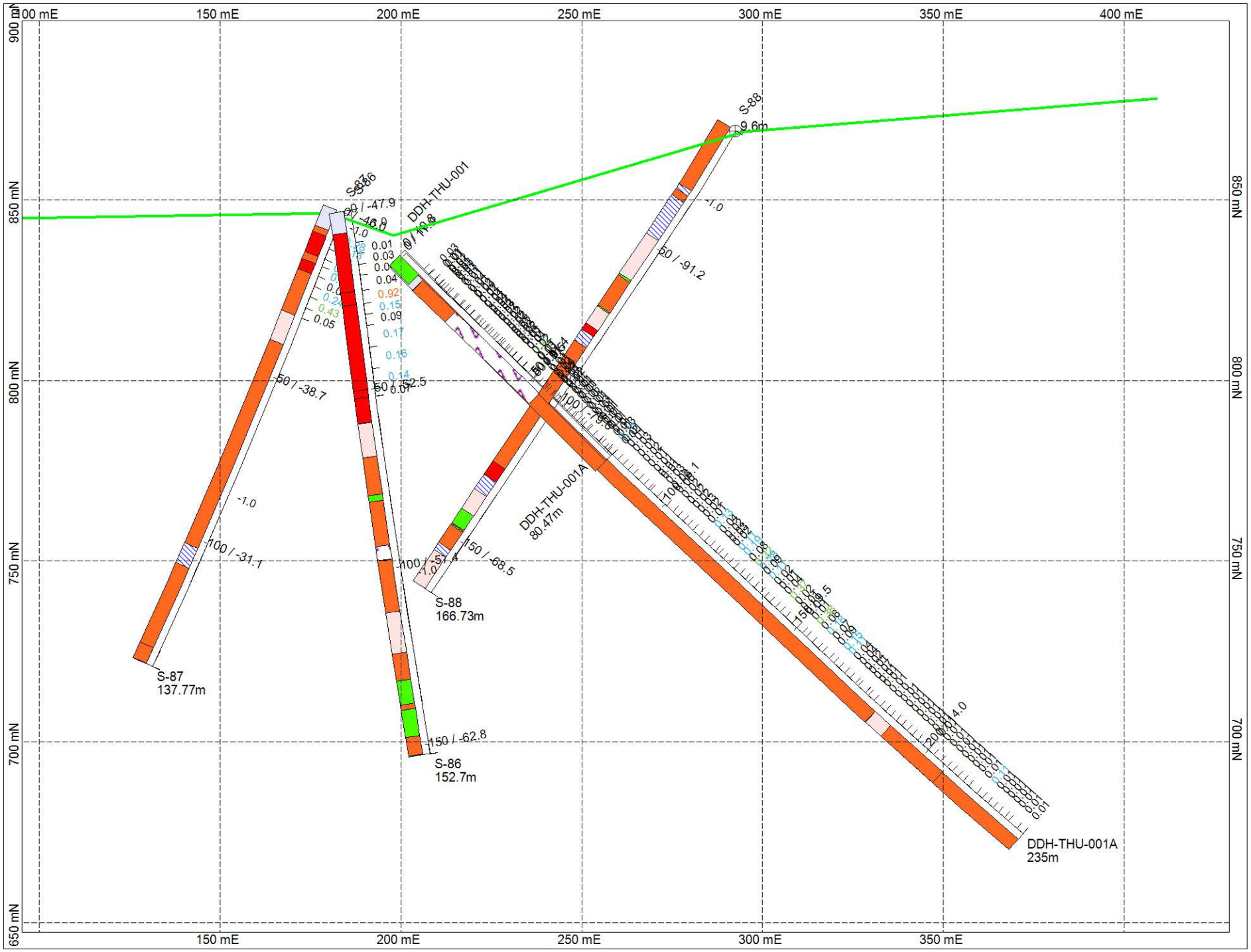
A total of 390 samples were assayed from Core and Rock samples.

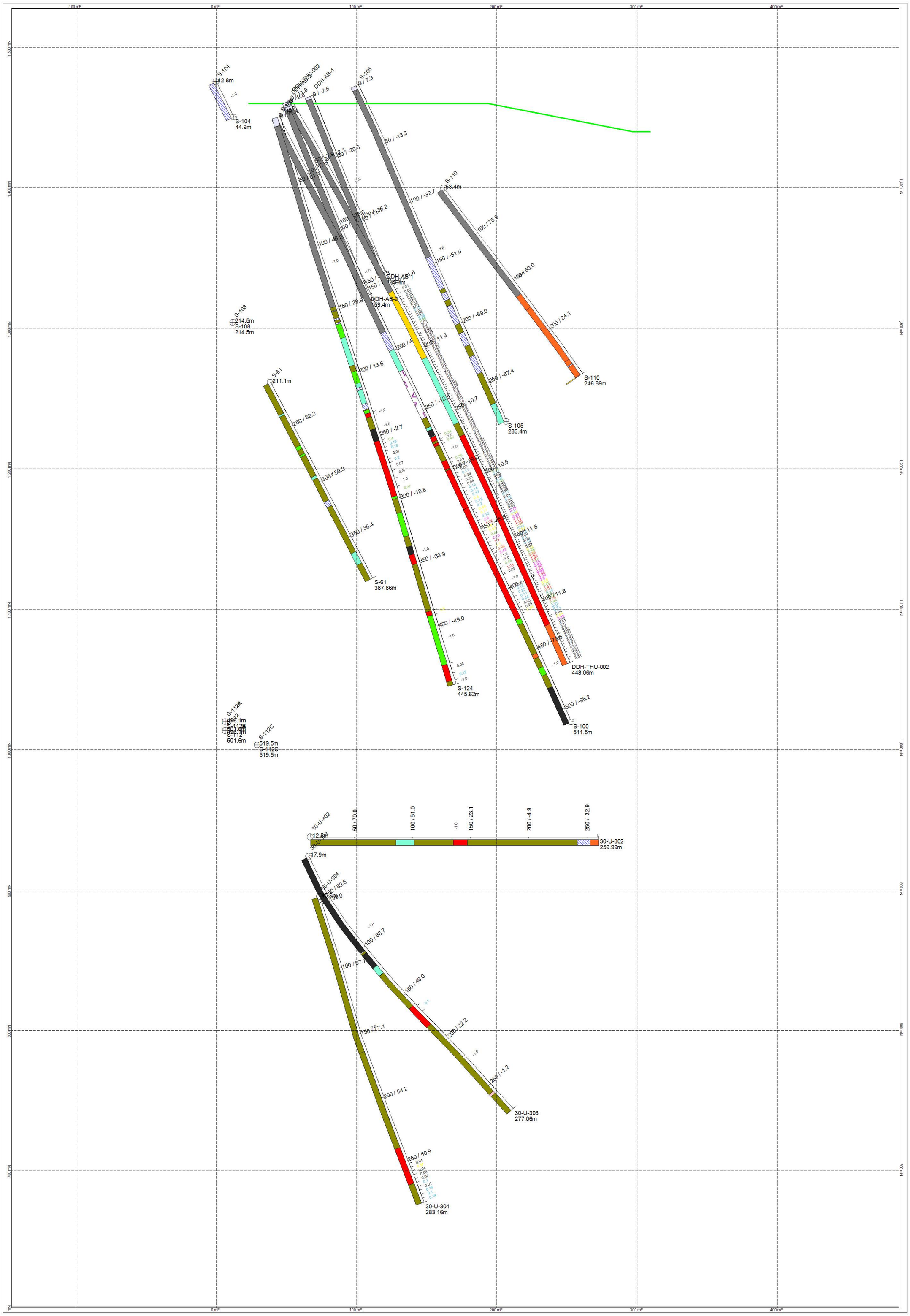
All core is being stored on the Thule Copper Property in core racks. Each box is labelled with the Hole ID, box number and depth measurements. The core racks are located adjacent to the site office located at:

3329 Aberdeen Road

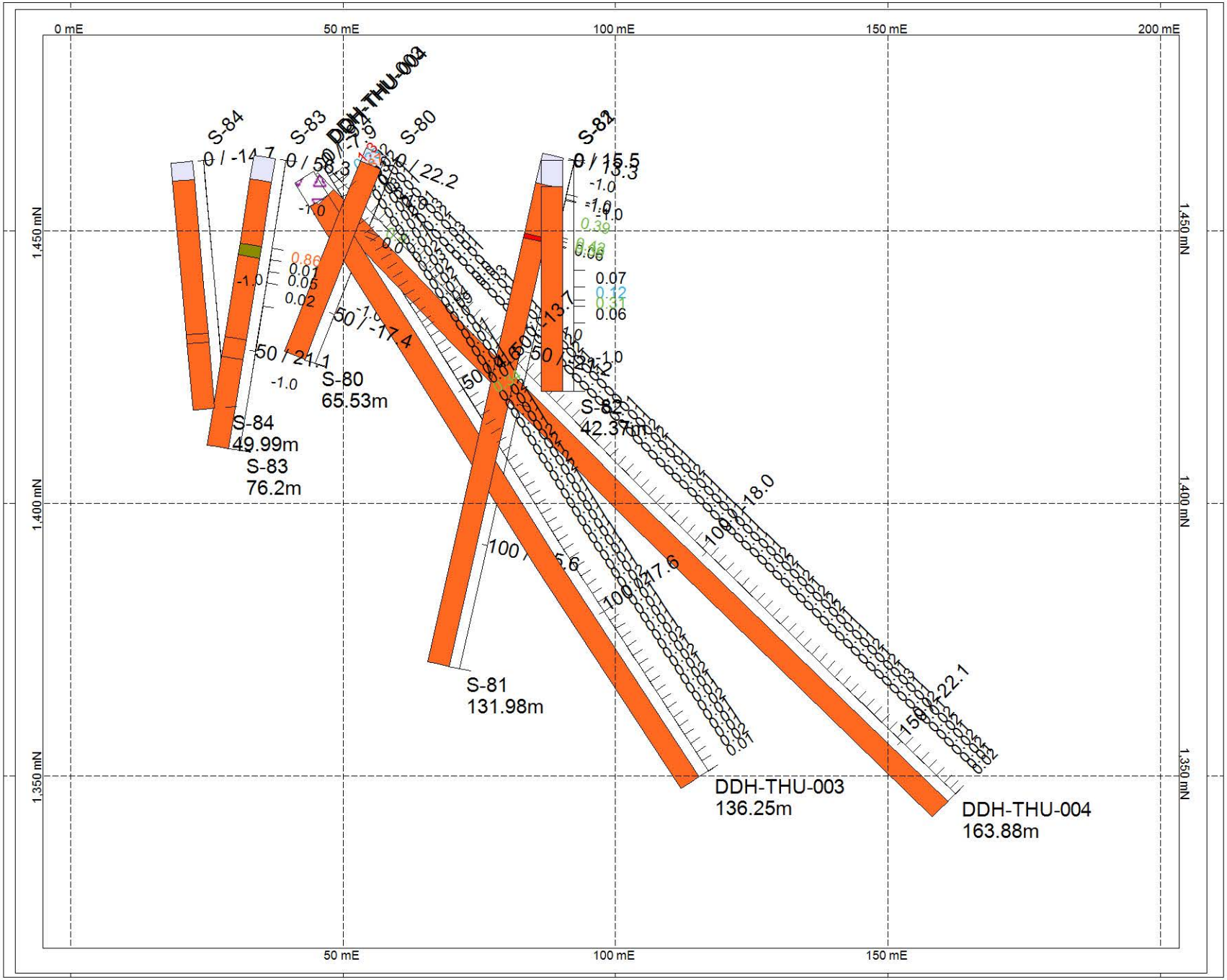
Lower Nicola, BC

V0K 1Y0


100 mE
150 mE
200 mE
250 mE
300 mE
350 mE
400 mE
900 mN
850 mN
800 mN
750 mN
700 mN
650 mN
S-87
S-86
DDH-THU-001
S-88
9.6m
50 / -91.2
50 / -38.7
100 / -31.1
150 / -68.5
150 / -62.8
DDH-THU-001A
80.47m
S-87
137.77m
S-88
166.73m
S-86
152.7m
DDH-THU-001A
235m



S-104
12.8m
S-104
44.9m
S-105
0 / 7.3
DDH-AB-1
0 / -2.8
50 / -13.3
S-110
53.4m
100 / -32.7
100 / 75.9
150 / -51.0
150 / 50.0
200 / -69.0
200 / 24.1
S-110
246.89m
DDH-AB-1
DDH-AB-2
159.4m
S-108
214.5m
S-108
214.5m
S-61
211.1m
250 / 82.2
300 / 59.3
350 / 36.4
S-61
387.86m
200 / 13.6
250 / -2.7
300 / -18.8
350 / -33.9
400 / -49.0
S-124
445.62m
250 / -87.4
S-105
283.4m
DDH-THU-002
448.06m
500 / -96.2
S-100
511.5m
S-112
501.6m
S-112C
519.5m
S-112C
519.5m
30-U-302
12.5m
50 / 79.0
100 / 51.0
150 / 23.1
200 / -4.9
250 / -32.9
30-U-302
259.99m
17.9m
30-U-304
100 / 68.7
150 / 46.0
200 / 22.2
250 / -1.2
30-U-303
277.06m
150 / 77.1
200 / 64.2
250 / 50.9
30-U-304
283.16m


0 mE
50 mE
100 mE
150 mE
200 mE
1,450 mN
1,400 mN
1,350 mN
S-84
S-83
DDH-THU-002
S-80
S-82
S-84
49.99m
S-83
76.2m
S-80
65.53m
S-82
42.37m
S-81
131.98m
DDH-THU-003
136.25m
DDH-THU-004
163.88m

5563950 N
5564000 N
650450 E
5564050 N
5564100 N
650500 E
5564150 N
5564200 N
650550 E
5564250 N
900 RL
850 RL
800 RL
750 RL
700 RL
650 RL
DDH-TSU-001A
DDH-TSU-001
DDH-TSU-001B
DDH-TSU-001C
DDH-TSU-001D
DDH-TSU-001E
DDH-TSU-001F
DDH-TSU-001G
DDH-TSU-001H
DDH-TSU-001I
DDH-TSU-001J
DDH-TSU-001K
DDH-TSU-001L
DDH-TSU-001M
DDH-TSU-001N
DDH-TSU-001O
DDH-TSU-001P
DDH-TSU-001Q
DDH-TSU-001R
DDH-TSU-001S
DDH-TSU-001T
DDH-TSU-001U
DDH-TSU-001V
DDH-TSU-001W
DDH-TSU-001X
DDH-TSU-001Y
DDH-TSU-001Z
DDH-TSU-002A
DDH-TSU-002B
DDH-TSU-002C
DDH-TSU-002D
DDH-TSU-002E
DDH-TSU-002F
DDH-TSU-002G
DDH-TSU-002H
DDH-TSU-002I
DDH-TSU-002J
DDH-TSU-002K
DDH-TSU-002L
DDH-TSU-002M
DDH-TSU-002N
DDH-TSU-002O
DDH-TSU-002P
DDH-TSU-002Q
DDH-TSU-002R
DDH-TSU-002S
DDH-TSU-002T
DDH-TSU-002U
DDH-TSU-002V
DDH-TSU-002W
DDH-TSU-002X
DDH-TSU-002Y
DDH-TSU-002Z
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DDH-TSU-003B
DDH-TSU-003C
DDH-TSU-003D
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DDH-TSU-003N
DDH-TSU-003O
DDH-TSU-003P
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DDH-TSU-003R
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DDH-TSU-003U
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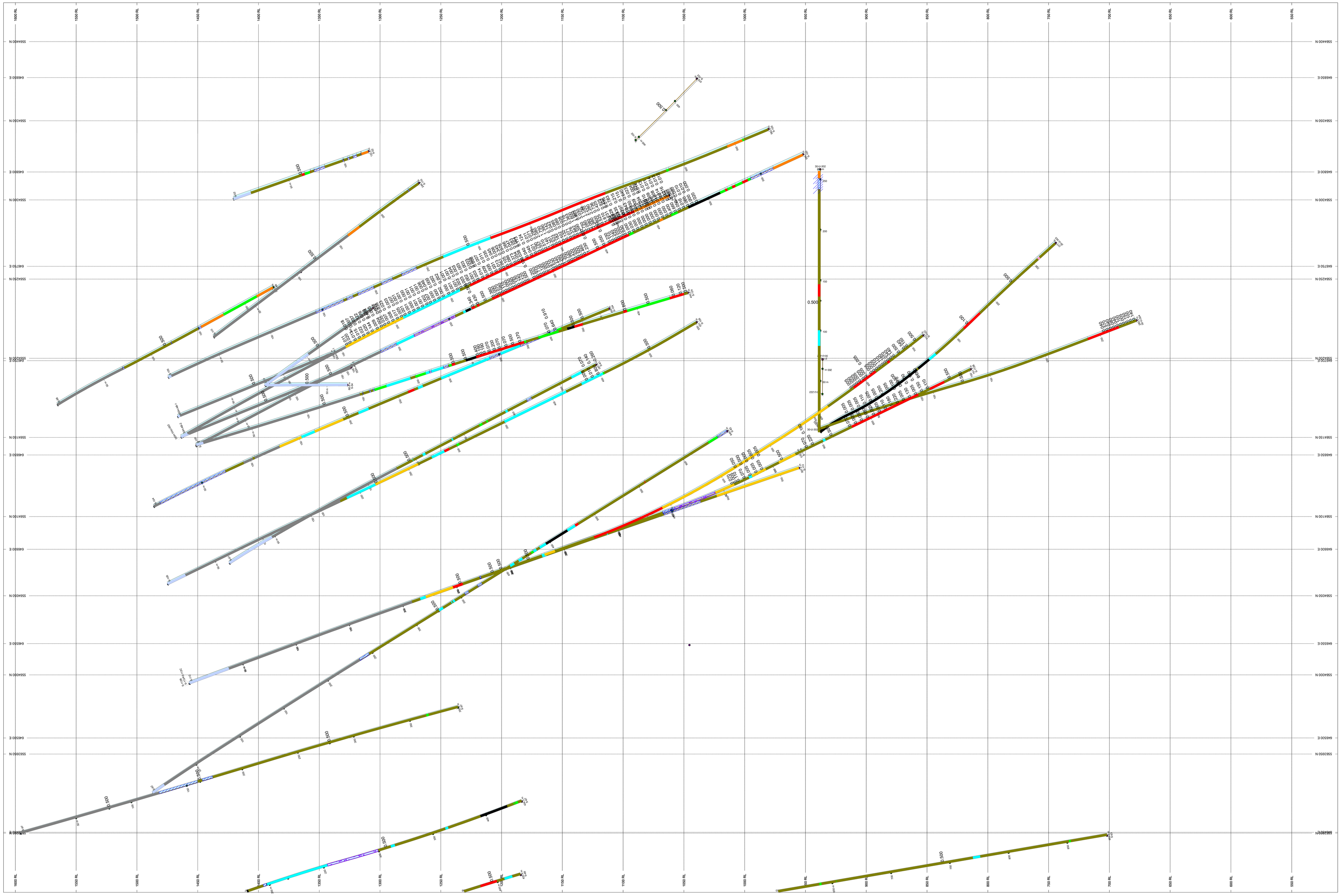
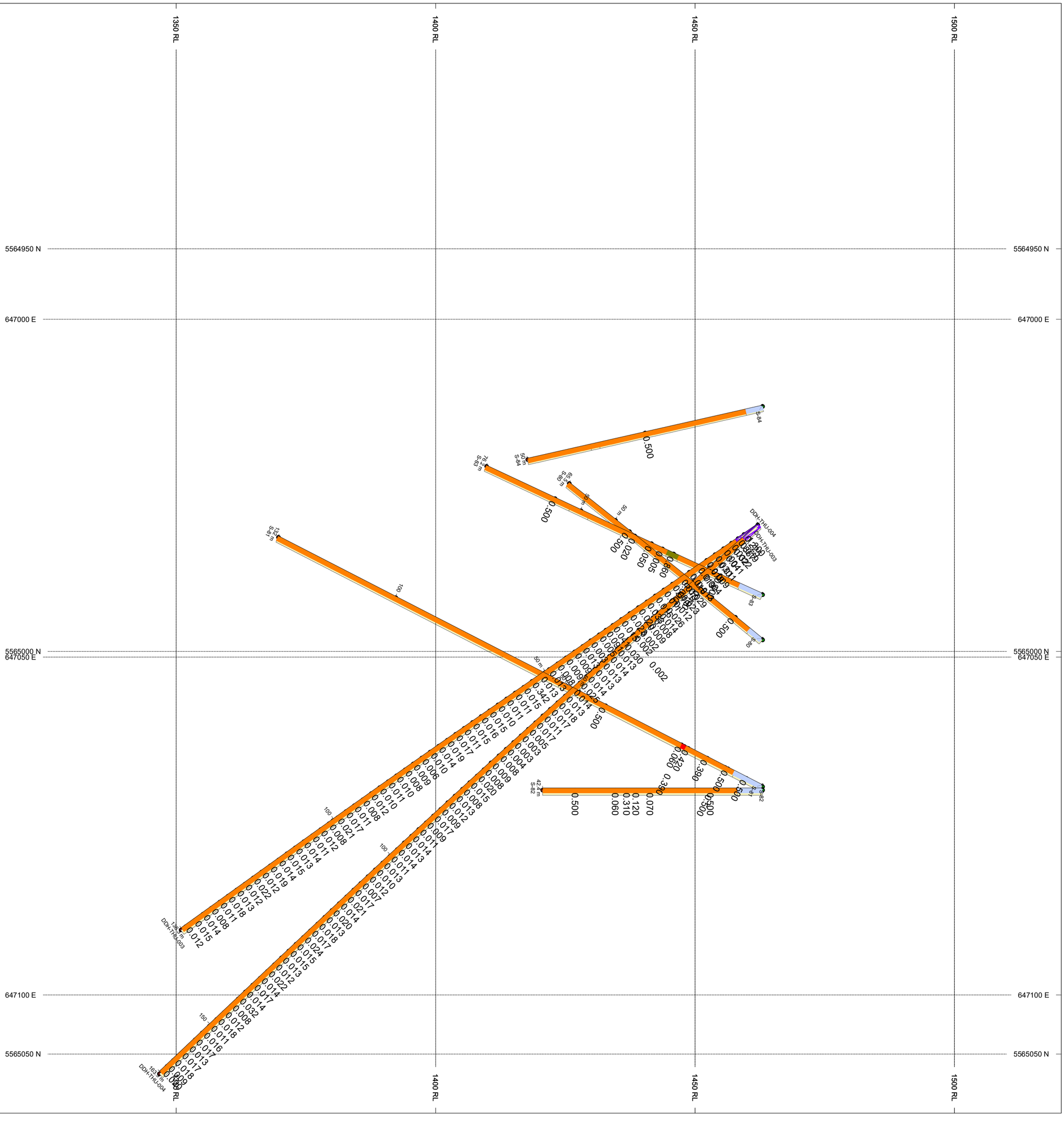
DDH-TSU-003Y
DDH-TSU-003Z
DDH-TSU-004A




1350 RL
1400 RL
1450 RL
1500 RL
5564950 N
647000 E
5565000 N
647050 E
647100 E
5565050 N
DDH-THU-003
DDH-THU-004

Legend

A
Basaltic-Andesitic

ARG
Argillite

BX
Biotite +/- Magnetite Breccias

C
Carbonate-Rich

FLT
Fault

G
Quartz Diorite (Guichon)

K
Skarn (Undifferentiated)

MO
Monzonite/Pegmatite

OB
Overburden

R
Rhyolitic Volcanics

S
Quartzo-Sedimentary

V
SBG Volcanics

Y
Coyle Stock

Appendix IX

Reclamation Memo

Reclamation Memo – 2016 Thule Copper diamond drilling program

Introduction

This memo was prepared by Brian May on September 24th, 2016 at the request of Warwick Bay, CFO, Nicola Mining Inc. to outline the reclamation work completed on the 2016 Thule Copper diamond drilling program. The reclamation work and re-seeding was completed by Hughmer Conracting of Merritt, B.C. Brian May is the designated mine manager for the 2016 drill program.

Purpose

Nicola Mining Inc. completed 1,084 metres of drilling in 5 holes at 3 zones in 2016. Two of the zones, Titan Queen and Embayment, were located off the Stumbles Forest Service Road. The other zone, Eric, was located close to the currently active Merritt Mill site, on the Craigmont switchback roads. Two other proposed zones, WP and Marb, were not tested during the 2016 drill program, but were part of the original drill plan.

2016 Exploration Program

Diamond Drill Program

The 2016 Diamond Drill Program consisted of 5 drill holes covering 1,084 metres. The drilling program targeted 3 zones: Eric, Embayment, and Titan Queen. The purpose of the drilling program was to target zones of mineralization controlled by major structures (**Figure 1)**.

1) Eric **(Figures 2-4)**
   - Modified pre-existing trail from 1978 drill program off the main Craigmont Mine switchback roads.
   - 2 drill holes from same site location. 1st hole was abandoned at 80.47 metres, 2nd hole was drilled to 235 metres. 1 sump used for the drill holes. Silt fencing was utilized to filter cuttings from sump
2) Embayment **(Figures 5-9)**
   - Used pre-existing road from the 2005 exploration program
   - Located on a partially deactivated road off the Stumbles Forest Service Road
   - Flattened cross-ditches put in place by Aspen Planers during road deactivation in 2016
     - All cross-ditches were flagged and returned to pre-existing condition after the 2016 drill program was complete
3) Titan Queen **(Figures 10-13)**
   - Located on a partially deactivated road off the Stumbles Forest Service Road
   - Flattened cross-ditches put in place by Aspen Planers during road deactivation in 2016
     - All cross-ditches were flagged and returned to pre-existing condition after the 2016 drill program was complete

Figure 1. Proposed 2016 drill sites relative to main trails and roads within the Thule boundary, Marb was not drilled in 2016.

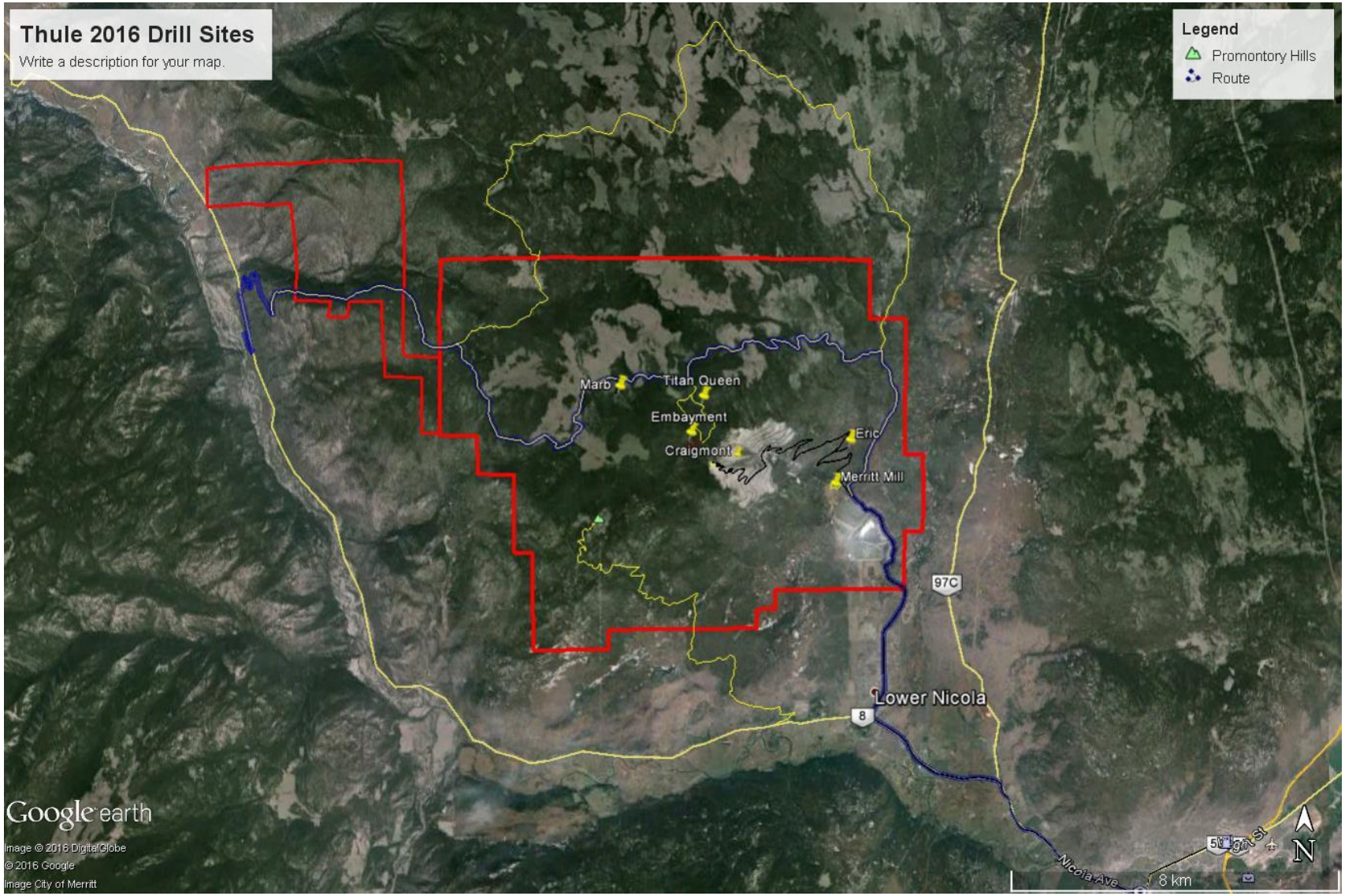


Figure 2. Eric Trail prior to Existing Access Modification (March 2016)

Figure 3. DDH-THU-001 and DDH-THU-001A (Eric) drill site (July 2016). Note silt fencing used to filter drill cuttings.

Figure 4. DDH-THU-001 and DDH-THU-001A (Eric) drill site after reclamation (August 2016).

Figure 5. Embayment drill site prior to drilling (May 2016).

Figure 6. Drill at DDH-THU-002 – Embayment drill site (July 2016).

Figure 7. Reclaimed drill site DDH-THU-002 – Embayment (August 2016).

Figure 8. DDH-THU-002 (Embayment) drill sumps (July 2016).

Figure 9. DDH-THU-002 (Embayment) sumps reclaimed (August 2016).

Figure 10. DDH-THU-003 & DDH-THU-004 (Titan Queen) drill sites (July 2016).

Figure 11. DDH-THU-003 & DDH-THU-004 (Titan Queen) reclaimed (August 2016).

Figure 12. DDH-THU-003 & DDH-THU-004 (Titan Queen) sumps during drilling (July 2016).

Figure 13. DDH-THU-003 & DDH-THU-004 (Titan Queen) sumps reclaimed (August 2016).