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ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]	**TOTAL COST**
2016 Assessment Report on Drilling at the Red Dog Property	$378,447.75

AUTHOR(S) John McClintock P.Eng SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-8-282 YEAR OF WORK 2016

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 5625153 7 November 2016

PROPERTY NAME Red Dog

CLAIM NAME(S) (on which work was done) 231682, 231684, 231686, 2311687, 231688, 231689, 231690,231691, 231704,513909513910,501677

COMMODITIES SOUGHT copper and gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN

MINING DIVISION Nanaimo NTS 92L 12

LATITUDE 42.5 N ° ' " LONGITUDE 127 ° 57.75 W ' " (at centre of work)

OWNER(S)

1) North Island Mining Corp. 2)

MAILING ADDRESS

15th Floor 1040 West Georgia Street
Vancouver, BC, V6E 4H1

OPERATOR(S) [who paid for the work]

1) Northisle Copper and Gold Inc 2)

MAILING ADDRESS

as above

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

Jurassic Bonanza Group andesites, Jurassic island Intrusions, Red Dog Stock, copper, gold and molybdenum porphyry mineralization, advanced argillic alteration, intermediate argillic alteration.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS

12027, 18023, 20610, 21,352

(OVER)

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			
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)		231686, 231704, 231684	297,377.85
Core	7 holes totalling: 1112.07 m NTW & HTW		
Non-core			
RELATED TECHNICAL			
Sampling/assaying	Drill core assays including QA/QC	231686,231704, 231684	38,370.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)		231704, 231682, 231686, 231684 513910	
Legal surveys (scale, area)	Drill holes plus road intersection	~~Same as Road~~ see list below	1,985.90
Road, local access (kilometres)/trail	3.55 km	231690, 23691, 231689, 231688 231687, 231684, 231682, 231704 231686, 513910, 513909, 51677	40,714.00
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	$378,447.75

2016 Assessment Report On Drilling At The Red Dog Property

Nanaimo Mining Division
British Columbia

NTS 94D/11E 50 42.5' N/127 58' W

Event # 5625153

Work on Tenure #'s :
231682, 231684, 231686, 2311687, 231688, 231689,

231690, 231691, 231704, 513909, 513910, 501677

Prepared for:
Northisle Copper and Gold Inc.

Prepared by:
John McClintock, P.Eng,

December 2016

Tables

Figures

Plates

Appendices

1.0 SUMMARY

The Red Dog mineral property is held under option by Northisle Copper and Gold (Northisle) from William Botel and Tanya Veerman.

The drilling Program at Red Dog program was carried out from June 22 through August 18, 2016. The purpose of the 2016 drilling was to validate the results of earlier exploration drilling programs of the 1980s and 1990s. In addition to confirming the results of earlier drilling, an attempt was made to test for a deep porphyry system to the immediate south east of the Red Dog Zone where mapping and Terra Spec analysis of the 2015 work program suggested such a body might exist at depth. A total of 3.55 kilometres of abandoned logging roads were reconstructed to provide access for drilling and 1112.07 metres in 7 holes were drilled. Location of the holes are shown on figure 7 with UTM co-ordinates of the drill holes listed in Appendix III.

The drilling this year confirmed the results of the four historical drill holes providing confirmation of the reliability of the historical exploration results and allowing the previously drilled holes to be used in a revised resource calculation. Additionally, the drilling results assisted with the understanding of the relationships between the mineralization and various phases of intrusive rocks on the property. The main intrusive phase associated with the mineralization was noted to be the Rose Porphyry. Unlike the other intrusive phases associated with the Red dog Intrusion, the Rose Porphyry is not a tonnalite, but rather a granite porphyry characterized by phenocrysts of orthoclase and rounded quartz eyes in a felsic groundmass. Quartz Magnetite Breccia, the main host of higher and copper and gold grades is best described as a pseudo breccia composed of fine to very fine grained saccharoidal quartz surrounding fragments of Bonanza Volcanic rock now altered to fine grained mixture of inter grown magnetite, chlorite, lesser sericite, chalcopyrite and pyrite. On its margins, the breccia is transitional into a quartz stockwork hosted by chlorite- magnetite (CMG) altered Bonanza Volcanic rocks or Rose Porphyry.

The test for a deeply buried porphyry system to the south and southeast of the Red Dog historical resource was inconclusive. All three attempts to drill a 400 to 500 metre deep hole were unsuccessful with each attempted drill-hole being lost in a major fault. These holes did confirm the presence of a major, westerly striking fault zone located south of the Red Dog Knoll and that this fault juxtaposes mid-level porphyry type alteration against high level advanced argillic alteration. The fault zone consists of at least four fault strands separating panels of less deformed and differently altered rocks. The fault zone is -70 degree dipping to the south and has mainly normal movement. On the south side of the fault zone is high level SCP alteration (advanced argillic), in the middle panel is intermediate argillic alteration (chlorite – sericite) and on the north side CMG (chlorite, sericite, magnetite). The possibility for a deeply buried porphyry system remains to be tested. Any future test should place the collar of the hole a minimum distance of 200 metres to the south of drill-hole RD16-04.

Recommendations going forward include the calculation of a current resource using both the historical and current drilling results. A second attempt to test for a deeply buried porphyry system is

recommended. Any such test should take in account the presence of the major fault system that thwarted this year's attempt and the hole should be collar 200 metres south of RD16-04.

2.0 INTRODUCTION AND TERMS OF REFERENCE

The Red Dog mineral property was optioned by Northisle Copper and Gold (Northisle) in March 2015 from William Botel and Tanya Veerman. Subsequently to optioning the property, Northisle carried out a limited program of geochemical and reconnaissance geological mapping on the Red Dog Property and in the fall of 2015, a second program of geological mapping was carried out with the objective of better defining the contacts between the alteration types identified by the initial program and to extend mapping to the east on to the Slide Showing.

Historical work on the property identified a copper-gold and molybdenum resource on the Red Dog Property. These historical estimates pre dated National Instrument 43-101 guidelines for current resource classification. To update the historical resource, four drill-holes from the pre 1993 drilling were selected for verification by drilling adjacent diamond drill holes. Concurrently with the drilling, historical holes pertinent to the confirmation of the resource were located by hand held GPS instrument and for further accuracy selected historical and current drill holes were located by differential GPS.

The 2015 work program on the Red Dog identified a broad area of advanced argillic alteration to the south and east of the historical resource. This area of alteration has many of the characteristics of the upper levels of a porphyry copper system suggesting that a deeply buried copper – gold porphyry system might lie at depth. To test this theory, an attempt was made to drill a deep, 400 to 500 metre hole to test the target.

About 3.55 kilometres of deactivated logging roads required rebuilding to provide access. The extent of deactivation of the roads combined with slides and sloughing over the 30 years since the roads were last used made full reactivation costly and in the end it was decide to only reactivate the roads to the extent where they could be used by ATVs and excavators.

This report quotes from historical assessment reports of the area. A list of the referenced reports is provided in the Bibliography.

3.0 PROPERTY DESCRIPTION AND LOCATION

3.1 LOCATION AND ACCESS

The Red Dog property is located at the northern end Vancouver Island, in British Columbia, Canada. Geographic coordinates are 50° 42.5'north latitude and 127° 57.75' west longitude. The claims are surrounded by Northisle's North Island Claim Block.·

Access to the claim block is from Port Hardy by the Holberg Road to a point about 45 kilometres from Port Hardy where forestry access road NE 62 leads northward to the property. A number of now reclaimed forestry roads provided access to historical drill sites on the property. Prior to this work program, the roads were largely overgrown and required significant work to rehabilitate them for use by vehicular traffic. On completion of this year's program, the access road was deactivated so that vehicular traffic is no longer possible. Tide water is 15 km away by road at Holberg.

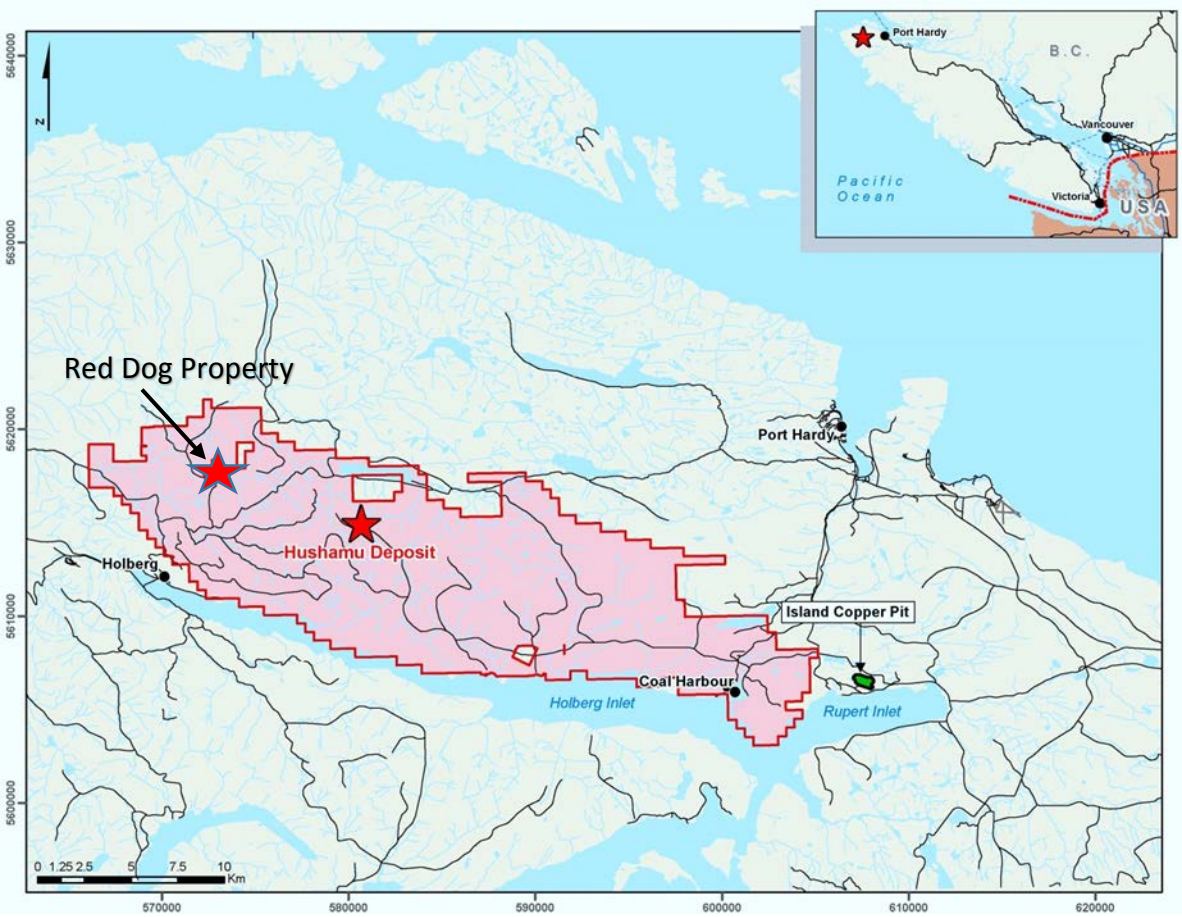
3.2 MINERAL TENURE INFORMATION

The Red Dog property consists of sixteen (16) mineral claims totaling 400 ha (Table 1). The property is located on NTS map sheet 94L/12W in the Nanaimo Mining Division, approximately 45km west of Port Hardy, BC, Vancouver Island B.C. The geographic coordinates of the approximate property centre are 50 42.5' N latitude 127 57.75' W longitude (Figures 1, 2 and 2A).

Table 1: Mineral Tenures

Record No.	Claim Name	Issue Date	Good to Date	New Good to Date	Area Hec.
231680	Red Dog 1	1966/Dec/13	2021/May/23	2026/May/23	25
231681	Red Dog 2	1966/Dec/13	2021/May/23	2026/May/23	25
231682	Red Dog 3	1966/Dec/13	2021/May/23	2026/May/23	25
231683	Red Dog 4	1966/Dec/13	2021/May/23	2026/May/23	25
231684	Red dog 5	1966/Dec/13	2021/May/23	2026/May/23	25
231685	Red Dog 6	1966/Dec/13	2021/May/23	2026/May/23	25
231686	Red Dog 7	1966/Dec/13	2021/May/23	2026/May/23	25
231687	Red Dog 8	1966/Dec/13	2021/May/23	2026/May/23	25
231688	Red Dog 9	1966/Dec/13	2021/May/23	2026/May/23	25
231689	Red Dog 10	1966/Dec/13	2021/May/23	2026/May/23	25
231690	Red Dog 11	1966/Dec/13	2021/May/23	2026/May/23	25
231691	Red Dog 12	1966/Dec/13	2021/May/23	2026/May/23	25
231703	Red Dog 14	1967/May/23	2020/May/23	2026/May/23	25
231704	Red Dog Fr.	1967/May/23	2020/May/23	2026/May/23	25
232212	Red Dog 29 Fr.	1967/Dec/01	2020/May/23	2026/May/23	25
232271	Red Dog 13 Fr.	1968/Jun/17	2020/May/23	2026/May/23	25

The claims are currently registered in the name of North Island Mining Corp., a wholly owned subsidiary of Northisle Copper and Gold Inc.



Location Map Red Dog Property, Fig. 1

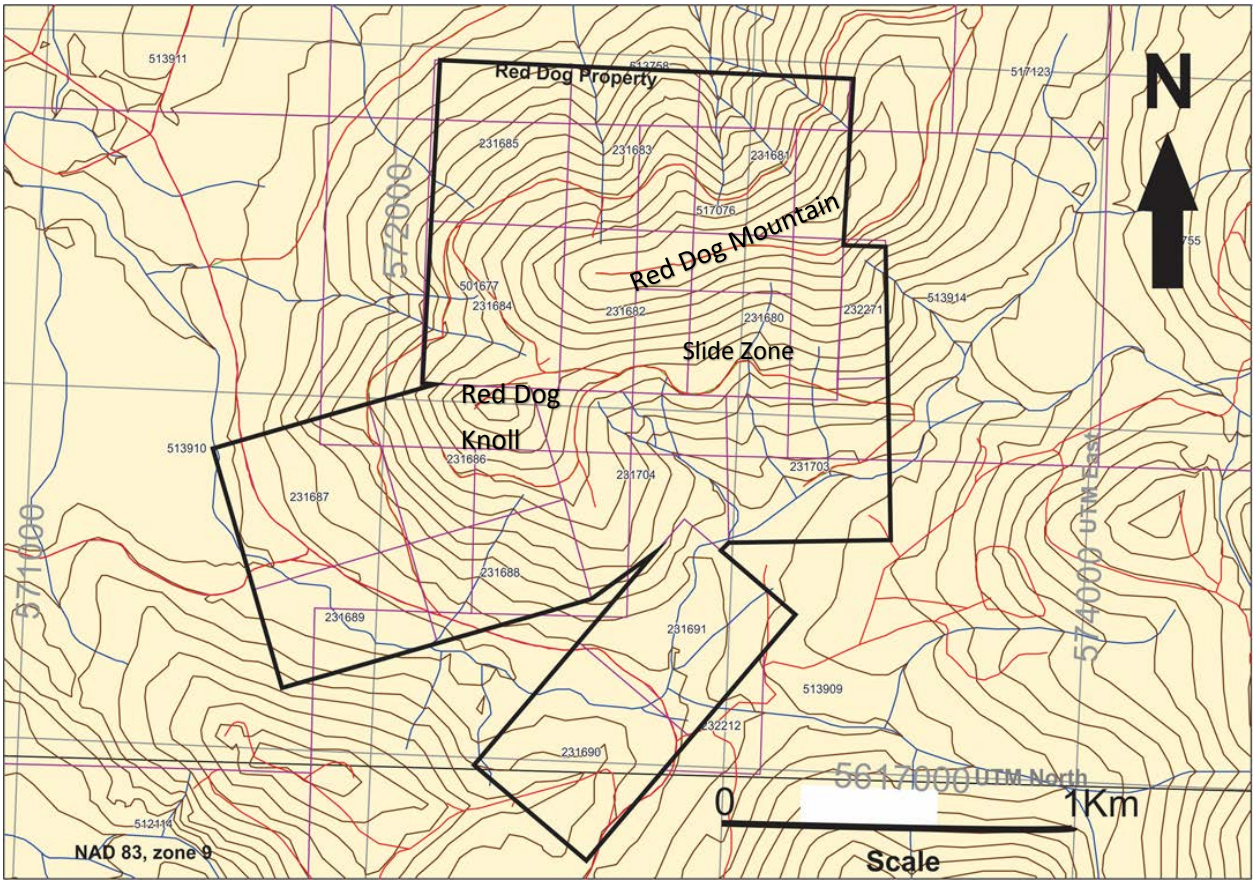


Fig. 2 Claim Location Map

3.3 PHYSIOGRAPHY AND CLIMATE

The area is characterized by moderate relief in the order of 360 metres between valley bottoms and hill tops. Slopes are generally moderate although some areas of the west and south slope of Red Dog Hill are precipitous. The main Red Dog mineralization crops out on the summit of Red Dog Knoll at an elevation of 470 metres.

With the exception of small areas adjacent to the Goodspeed River, the entire area of interest was clear-cut logged and replanted at various times over the past 60 years. Secondary growth is very dense, and movement through the bush away from abandoned roads or creek beds can be difficult particularly in areas of the most recent logging.

Climate in the area of the Property is typical of coastal areas of British Columbia with an annual precipitation of 3,911mm, and a daily average temperature of 8.8°C (Environment Canada, 1971-2000). Winters are very wet, with 75% of the annual precipitation occurring from October to March, mostly as rainfall at lower elevation (Holberg is at sea level), but with significantly increasing percentage of snowfall accumulation above 300 m elevation. Generally, exploration and development work is possible for most of the year, allowing for a long exploration field season.

4.0 HISTORY

The following history of exploration of the Red Dog Claims is modified from Richards (1990):

The Red Dog property is a geochemical find, having been first detected by a regional program in 1962. Follow-up on a 1962 anomaly during the 1966 field season led to the discovery of the mineralization in the bed of a creek and the subsequent staking of the Red Dog claims. Three holes were drilled with a Winkie drill in 1967 but core recovery was very poor.

In 1968, a two stage drilling program was carried out; 1,722 metres in 20 holes, with a soil geochemistry survey run in between stages. In 1970 very-low frequency electromagnetic (VLF- EM) and ground magnetic surveys were completed. Four anomalies located in by the geophysical surveys were tested by 4 diamond drill holes totalling 453 metres. The roads and creeks were geologically mapped. In 1972 the claims were optioned to Cities Services who remapped the property, re-logged the previous drilling and drilled three holes totalling 903 metres. In 1973 Cities Services was joined by Westminex Development. A program of rock geochemistry and 7.7 km. of road l.P. survey were done. Three deep core drill holes were recommended as well as a line l.P. survey, but were not done.

In 1974 Westminex Development drilled the three core holes recommended in 1973, totalling 613 metres as well as 2 Winkie holes.

The property was not worked again until 1982 when Utah Mines optioned it and completed the line I.P. work over the Red Dog Knoll as recommended in 1973, and 664 meters of core drilling in 6 holes in the first stage and 1,059 metres in 6 more holes plus one earlier one deepened. The final work program on the property by Utah Mines was a program of five core holes drilled in the fall of 1983, totalling 779 metres, to test various I.P. anomalies on the south slope of Red Dog hill. The I.P. anomalies were all found to be caused by a zone of advanced argillic alteration with associated pyrite.

In 1988 Crew Capital Corp. drilled 4 holes on Red Dog hill totalling 1041.8m to test the depth and eastern extent of the mineralization.

In 1989 Moraga Resources Ltd drilled 1850.6 m in 10 new holes, and in deepening one old hole, with the objective delineating the quartz-magnetite breccia on the Red Dog Hill zone.

A final drilling program was undertaken by Moraga in 1990 with the drilling of an additional 1240.88 m. Based on all of the previous drilling in the Red Dog Mineralized body, Richards estimated a resource for the Red Dog Deposit of 20 million tonnes grading 0.30% copper, 0.5 gpt gold and 0.012% molybdenum. This resource estimated pre dates National Instrument 43-101 and does not meet current standards of reporting resources. Additional work including re drilling of some holes was required to confirm the

estimate. Moraga completed a scoping study on the mineralization and concluded that the deposit might be feasible as a small open pit mine, but decided to return the property to its owner.

After Moraga relinquished its option, no work was carried out on the property until Northisle acquired an option on the property.

In March 2015, subsequently to optioning the property, Northisle carried out a program of soil and rock sampling and reconnaissance geological mapping on the property. Later in 2015, detailed mapping and TerraSpec analysis was carried out in September to November.

In 2016 Northisle designed a program of confirmation drilling aimed at verifying the historical resource at Red Dog. As part of the process of confirming the historical resource, four drill holes were selected from the previous drill programs for re-drilling. Two of the selected holes were from 1980s programs and two were from the drilling programs of the 1990s. In addition to the re-drilling of historical holes, an attempt was made to test for deep porphyry copper and gold mineralization to the south east of the historical resource.

5.0 GEOLOGY

5.1 REGIONAL GEOLOGY

The regional geology of the Rupert area was mapped by Nixon et al. (2006) and the following summary is a synopsis of Nixon's paper. Figure 3 shows the bedrock geology of northern Vancouver Island. Vancouver Island is comprised of Upper Paleozoic to Lower Mesozoic rocks of Wrangellia – a tectonostratigraphic terrane that occurs discontinuously northward as far as central Alaska. This terrane was amalgamated to the Alexander Terrane of the Alaskan Panhandle (together comprising the Insular Superterrane) by Late Carboniferous time. Subsequently, these terranes were accreted to North America between the Middle Jurassic and the mid-Cretaceous. Thus, Vancouver Island records an early allochthonous history, and a later history with commonality to the North American margin.

The pre-accretion history of Wrangellia is represented by the Paleozoic Sicker Group and the Middle Triassic Karmutsen Formation. The Sicker Group comprises marine Devonian to Early Permian volcanic and sedimentary rocks that host VMS deposits such as at Myra Falls. The Karmutsen conformably overlies the Sicker Group and comprises basaltic and minor sedimentary rocks that underlie about 50% of Vancouver Island. This unit is up to 6000 m thick. Richards et al. (1991) argued that the Karmutsen was initiated by, and extruded above a mantle plume and recent geochemical data support an oceanic plateau origin for the Karmutsen (Greene et al., 2006). The Karmutsen is in turn conformably overlain by the Quatsino Formation of limestone consistent with a period of quietude following impingement of a mantle plume.

The Bonanza Arc (DeBari et al., 1999) formed along the length of Vancouver Island during accretion of Wrangellia. Owing to later tiling, products of this arc from various crustal depths are all preserved. These include the Westcoast Crystalline Complex, Island Intrusions and the Bonanza Group volcanic rocks. DeBari et al. (1999) argue that all these components have similar ages and geochemical signatures and that they are therefore all products of a single arc. Ages for these rocks range from ca 190 to 169 Ma. Intrusive rocks of the Island Intrusions are responsible for porphyry copper mineralization on Vancouver Island.

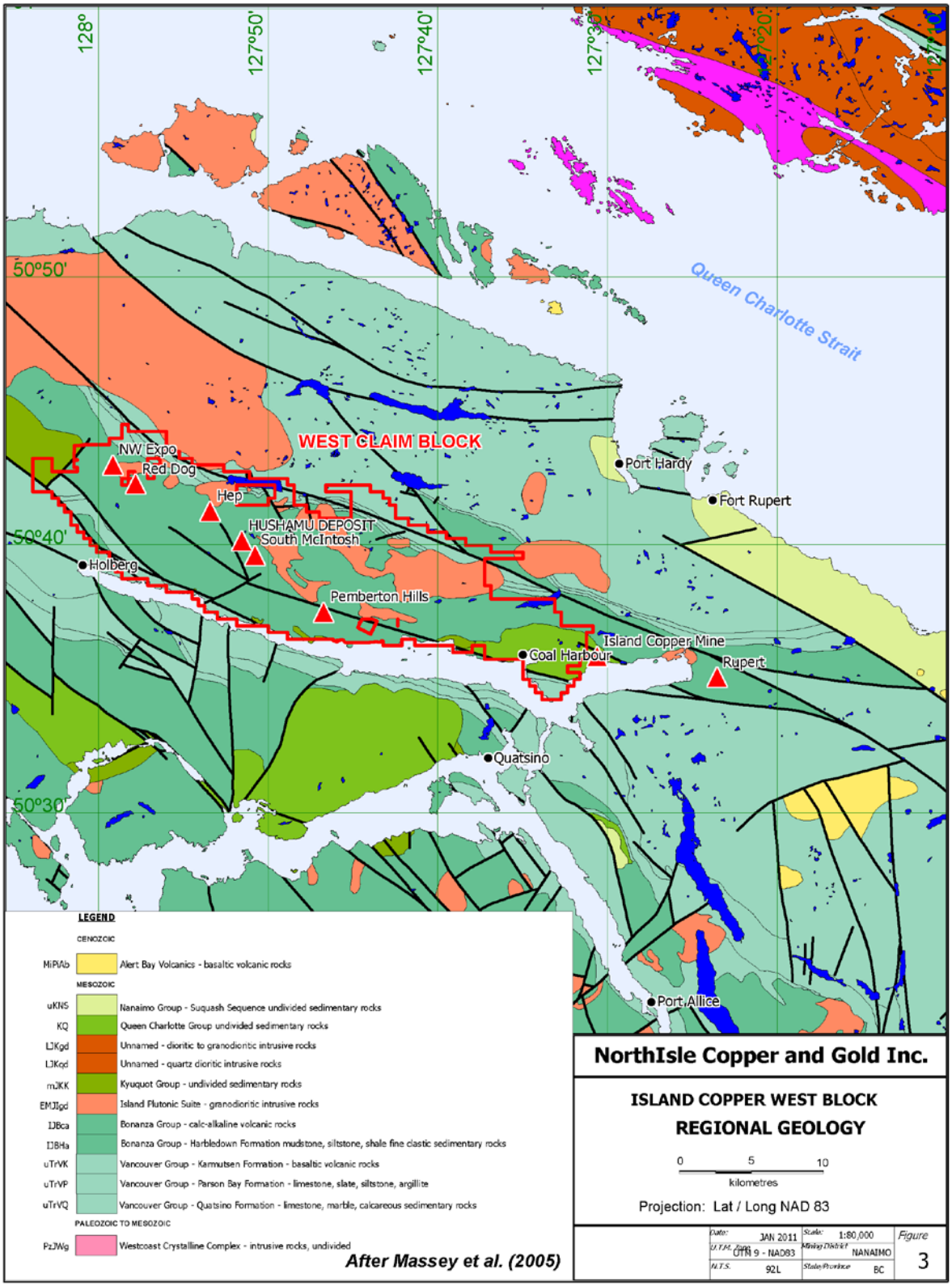
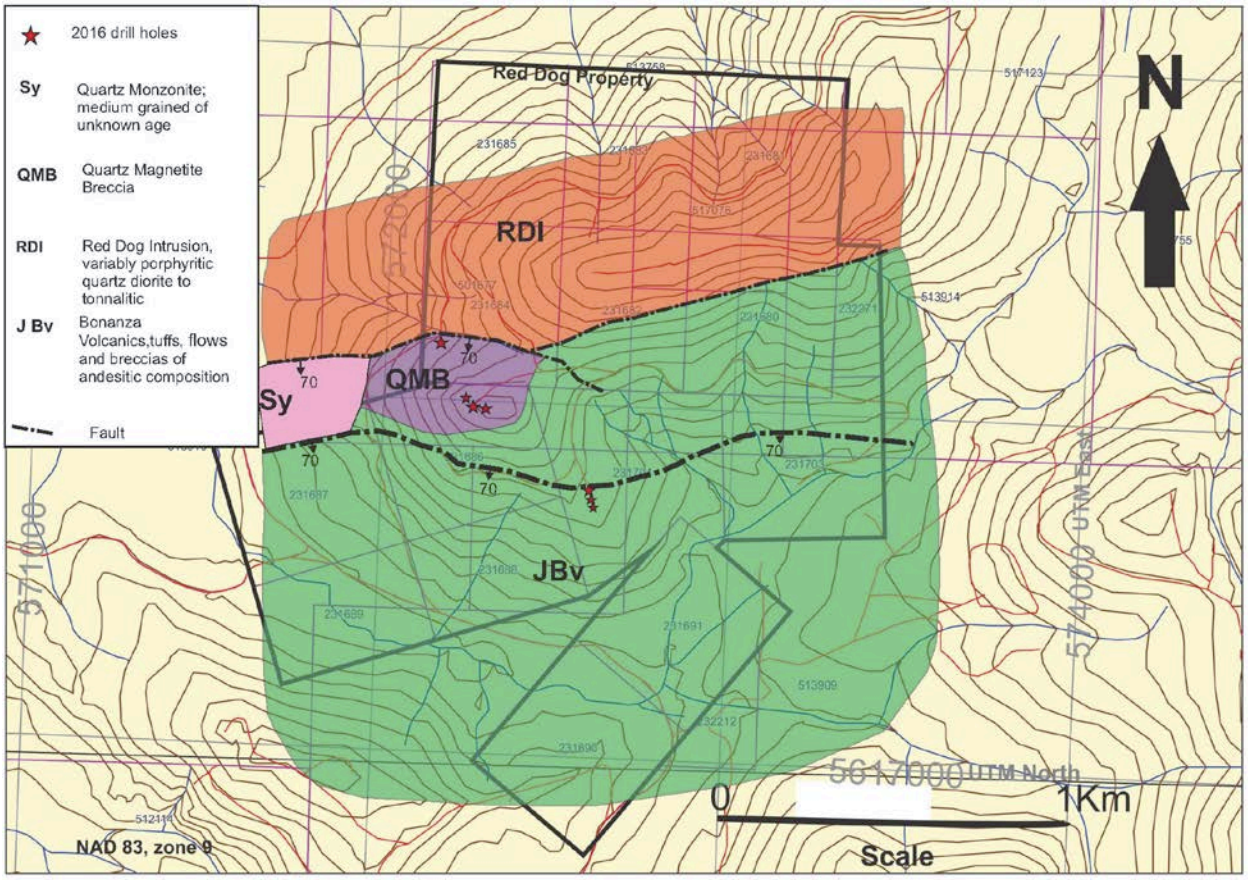


Fig. 3 Regional Geology

5.2 RED DOG GEOLOGY

5.2.1 Geology

The oldest rocks exposed on the Red Dog property are the lower Jurassic age Bonanza Group. These rocks underlie most of the southern portion of the claims and prior to alteration were dominantly of andesitic to basaltic andesitic composition (Fig. 4). Most of the volcanic rocks are auto brecciated flows, tuff-breccia and much lesser fine tuffs and very fine grained sills. Due to later alteration and the general monotonous makeup of the Bonanza Group rocks subdivision of the volcanic package was not possible at property scale mapping. Mapping carried out in 2015 found no conclusive bedding attitudes. Based on mapping by Nixon et. al. 2006, the Bonanza Group rocks in the area of Red Dog dip gently to the southwest.



Geology Map

Figure 4: Property Geology

This year's drilling program resulted in the confirmation of a fifth intrusive event in addition to the four identified by last year's mapping. It also modified the relative ages of the intrusions as well as a better

insight in to the complex timing and relationship of the Red Dog Intrusive suite with respect to the emplacement of mineralization.

The oldest intrusive rock is the Red Dog Intrusion of likely Jurassic age. This rock type crops out on Red Dog Mountain and forms a westerly trending elongate stock occupying the northern half of the property. Additionally to the main body, there are numerous porphyry dykes compositionally similar to the main Red Dog Intrusion. Rather than pre mineralization, these dykes are only weakly altered, rarely copper bearing except at their immediate contacts with the surrounding altered and mineralized Bonanza Volcanic rocks. From the relationship with the mineralized wall rocks, these dykes appear to be a late mineralization phase intrusions. The dykes, referred to a Red Dog Porphyry, range from a few metres to 10s of metres thick, strike westerly and dip steeply to the north. Where little altered, it consists of tabular phenocryst of plagioclase to 4mm, lesser finer grained hornblende and rounded quartz phenocrysts in a fine grained felted matrix of the same minerals. The rock contains less than 10% Kspar and best fits the tonalite classification. The contact of the main Red Dog Intrusion with the Bonanza Group rocks is near vertical in the eastern part of the property; however, west of the prominent gully separating the main part of Red Dog Mountain and Red Dog Knoll, the contact is a southwest dipping fault based on drill results reported by J. B. Richards in his 1991 and 1990 reports and on this year's drilling.

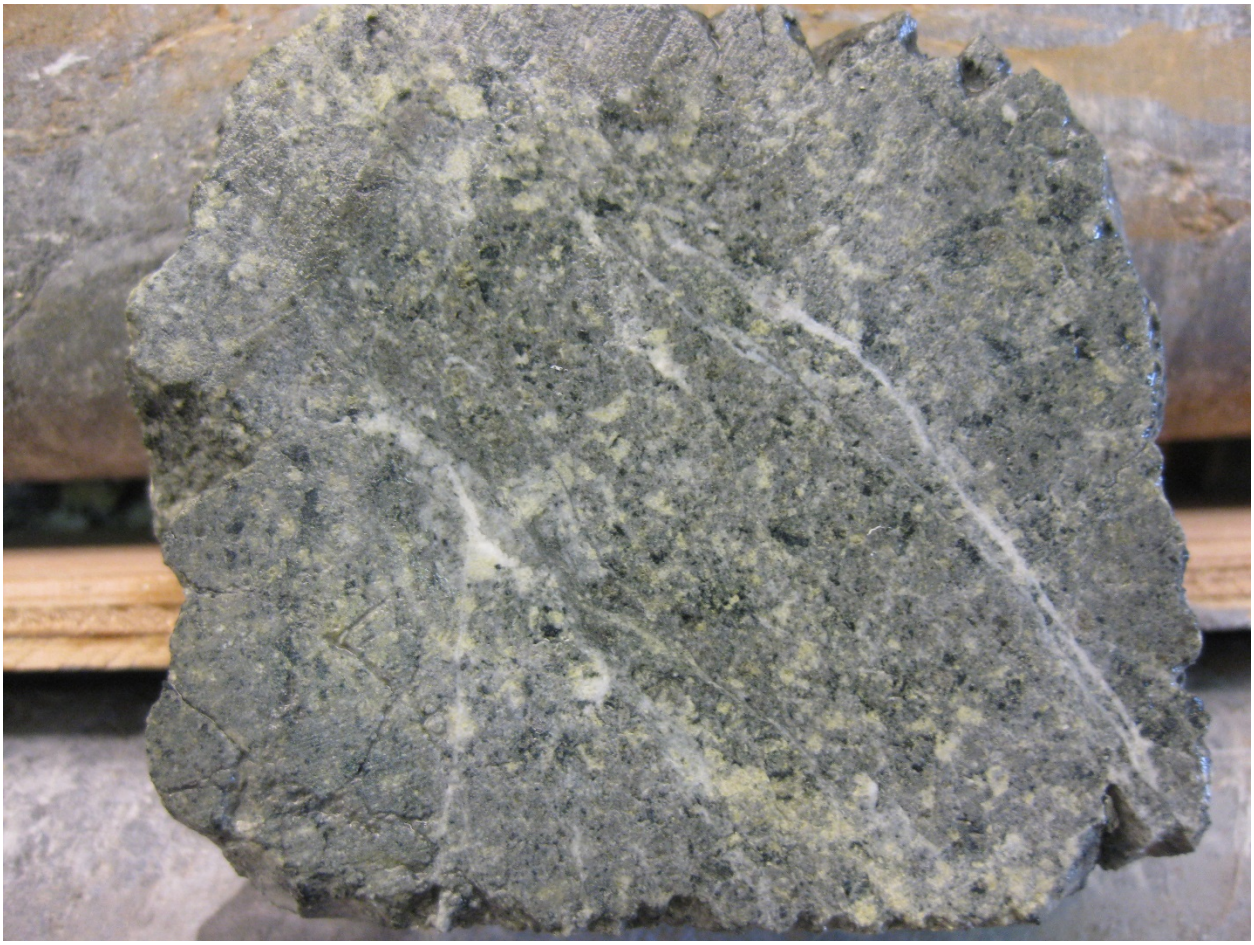


Plate A Red Dog Porphyry with late carbonate – zeolite alteration

The new intrusion noted in this year's drilling is referred to as the Rose Porphyry. Originally named for its distinctive pale greyish pink colour, it is characterized by its coarse porphyritic texture of rounded quartz eyes and medium to coarse grained feldspar in a felsic groundmass of the same minerals. Any original mafic minerals are altered to sericite and chlorite. A well-developed quartz vein stock work is everywhere present and rock is well to moderately mineralized with magnetite, chalcopyrite, pyrite and lesser molybdenite. It has only been observed in contact with the Quartz Magnetite Breccia. Often the contacts are brecciated and obscured by intense silicification. The relationship of the Rose Porphyry to the Red Dog Intrusions requires further study. It may represent a phase of the Red Dog intrusions that is intermediate in age between the main stock and the younger Red Dog Porphyry dykes or be related to another intrusion not present within the near surface of the deposit.

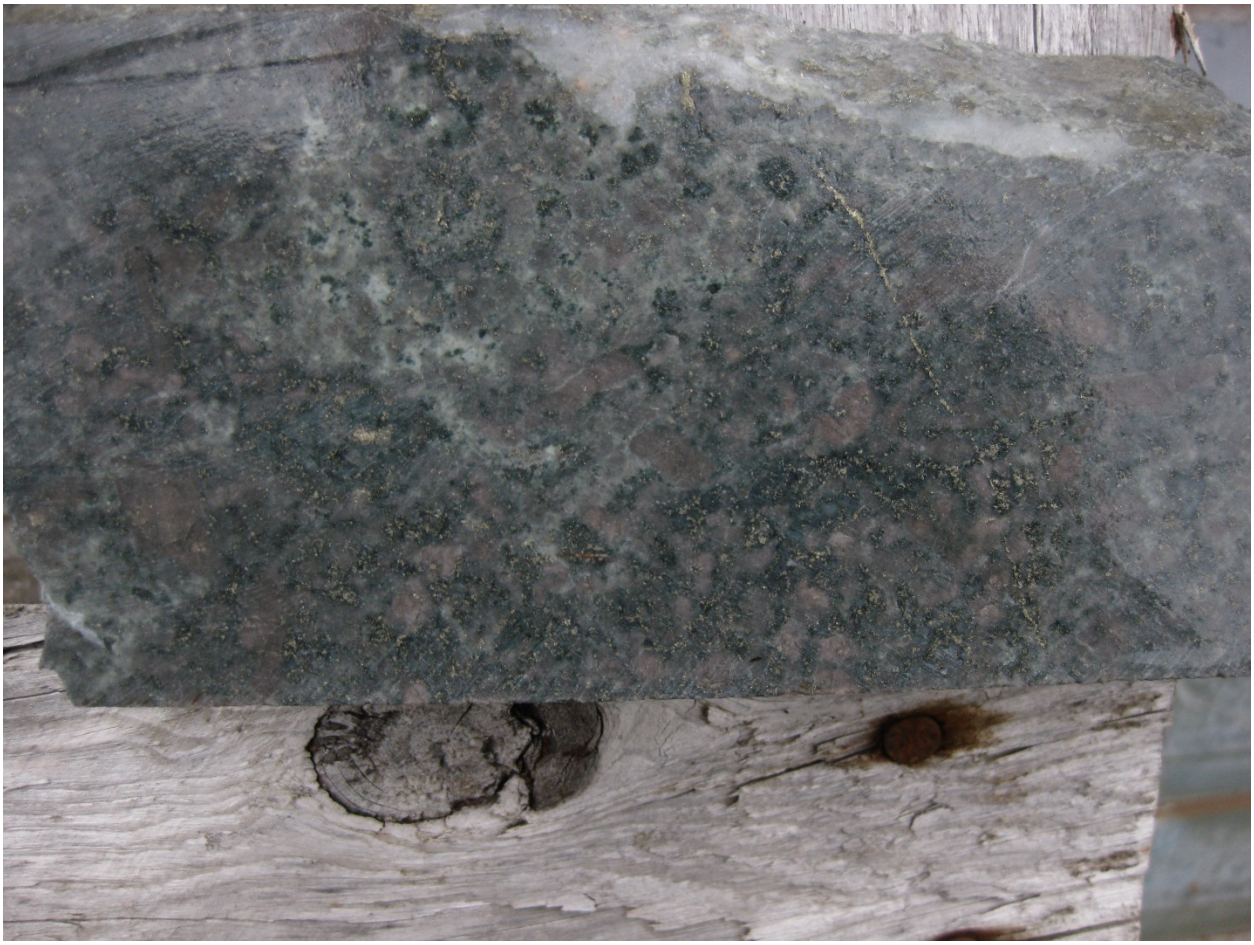


Plate B Rose Porphyry

A third intrusion occurs in the south eastern part of the property. The rock is given the generic name Feldspar Porphyry as everywhere it is altered and occurs as a white to pale grey coloured rock comprised of tabular, 2 to 3 mm plagioclase phenocrysts in a fine grained felsic ground mass. The mafic mineral,

which forms both 1-2m phenocrysts and part of the groundmass are completely altered to chlorite. Fine grained disseminated pyrite forms about 3% and is often oxidized to limonite. Quartz forms about 5% of the rock and is confined to the matrix. Based on the low Kspar content, the rock is classified as a diorite porphyry. Dykes related to this intrusion were cut in drill holes RD16-05 and RD16-05A.

The Feldspar Porphyry is poorly exposed except in one creek where it forms a continuous outcrop for over 50 metres. Much of its assumed areal extent is covered by Quaternary lacustrine and sandy sedimentary rocks. Based on this year's drilling to the southeast of the Red Dog Knoll, it is probable that the Feldspar Porphyry is not a single body, but rather a dyke swarm cutting Bonanza Group rocks.

The fourth intrusion is located in the western part of the property on the flank of Red Dog Mountain. It forms a small stock like body that extends to the southeast under Red Dog Knoll based on historical drill logs. The intrusion is a medium grained hypidiomorphic granular textured quartz monzonite, which has in the past been referred to as syenite due to its pink coloured feldspars. It is un-altered and postdates the mineralization. The contact between the quartz monzonite and Red Dog Intrusion is covered by Quaternary Sedimentary rocks and thus the relationship between the two intrusions is unclear. It may be that the fault identified in historical drilling separating the Bonanza Group from the Red Dog Intrusion also separates the quartz monzonite from the Red Dog Intrusion

The fifth and youngest of the intrusions are basalt dykes that for the most part trend westerly and are near vertical to steeping dipping both to the north and south. They are rarely more than 3 metres thick. The basalt dykes are very fine grained, dark grey to black in colour. Examination of thin section of one of these dykes cut in RD 16-02 determined the dyke is in fact of andesitic composition. The dykes cut all rock types, but are not common and volumetrically unimportant.

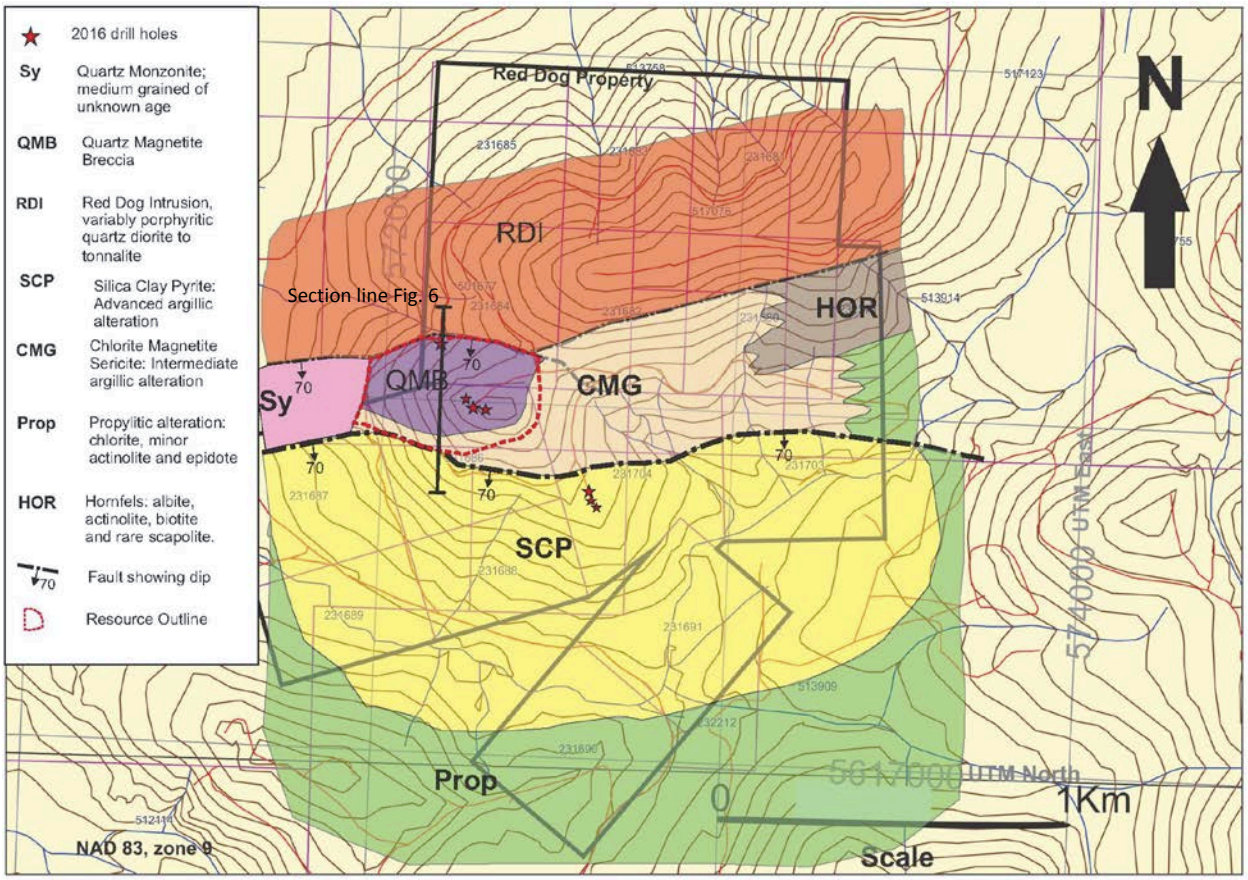
The youngest unit is Quaternary semi consolidated siltstones, sandstones, conglomerates breccia and lacustrine clay. This unit rests on the basement units and is in turn overlain by younger glacial till. It forms apron-like benches on the lower to mid slopes of Red Dog Mountain and Knoll. Higher on the hillsides it is dominantly interbedded clast supported conglomerate, breccia, coarse sandstone with finer siltstone. The siltstones are clay rich and are probably responsible for the numerous slide events that have occurred both recently and in the past. The thickest sections occur in the stream basin of the northwest side of Red Dog Knob and the upper and lower southeast slopes of Red Dog Knob. The thickness of the Quaternary Sedimentary rocks is variable ranging from a few metres to over 10 metres.

5.2.2 Alteration and Mineralization

Mapping in 2015 identified six principal alteration types on the property (Fig. 5). These are from oldest to youngest: Hornfels (H); Intermediate Argillic (CMG); Quartz- Magnetite Breccia (QMB); Advanced Argillic (SCP); Propyllitic (PROP); and Zeolite- Carbonate.

The Hornfels facies alteration forms a band of alteration within the Bonanza Group rocks approximately 300 metres wide parallel to the contact with the Red Dog Intrusive. Within the contact metamorphic band the andesite has been thermally altered to an assemblage of albite, actinolite, biotite and lesser chlorite. Spectral analysis found minor amounts of scapolite. Magnetite primarily as disseminated grains is ubiquitous. Minor pyrite is present as hairline width fracture filling. The rock is very fine grained, very well indurated and most primary textures are destroyed.

The Hornfels is best developed in the eastern part of the Red Dog intrusive – Bonanza Group contact. To the west, the hornfels becomes overprinted with intermediate argillic alteration referred to by its property name as CMG. The transition zone is marked by inter fingering of the CMG alteration along more porous volcanic units such as tuff and breccia as well as along fracture zones. Remnants of the earlier hornfels alteration persist to the west side of the property within more massive and less fractured units of the Bonanza. On figure 5, the contact between the two units is marked where CMG dominates over hornfels as the prominent alteration type.



Red Dog Alteration Map

Figure 5: Red Dog Alteration

The CMG alteration is characterized by pervasive replacement of the primary mafic minerals and plagioclase by sericite, chlorite, quartz and secondary magnetite. Quartz occurs both as pervasive replacement and as veins. Magnetite occurs as pervasive alteration and as secondary veins. Associated with the CMG alteration is pyrite with variable amounts of chalcopyrite. Chalcopyrite is generally in areas of the most intense alteration especially where secondary quartz is present as veins. For the most part, CMG alteration is restricted to the Bonanza Group rocks and does not extend into the Red Dog Intrusion dykes more than a few metres. Based on observations from this year's drilling the dykes are late phase with respect to the mineralizing event.

The Quartz Magnetite Breccia forms a 350 metre by 150 metre wide, west north-west trending body plunging moderately westerly. To the south and east the breccia is gradational into intense CMG alteration. To the north, the Quartz Magnetite Breccia is in fault contact with the Red Dog Intrusion. To the west, the breccia is terminated by the post mineralization quartz monzonite (syenite). The Quartz Magnetite Breccia is hosted in the Bonanza andesite, but does extend in to dyke margins of the Rose Porphyry dykes.

Drilling this year provided better insights in to its composition and relationships with the other alteration types and intrusive rocks. The Quartz Magnetite Breccia is best described as a pseudo breccia composed of fine to very fine grained saccharoidal quartz surrounding fragments of magnetite, chlorite, lesser sericite chalcopyrite and pyrite (Plate C). On its margins, the breccia is transitional into a quartz stockwork hosted by CMG altered Bonanza Volcanic rock or Rose Porphyry (Plate D). The Quartz Magnetite Breccia has the following para-genesis: Initial formation of magnetite rich rock (skarn) followed by quartz flooding forming initially a stockwork and intensifying in to a massive quartz replacement of most of the rock leaving only disconnected fragments of magnetite; accompanying the silicification, the magnetite was replaced by hematite and lesser chalcopyrite. Any pre-existing silicate minerals associated with the earlier phase magnetite mineralization was altered to chlorite and sericite. A final phase of alteration is pyritization of the magnetite and hematite. This pyrite alteration did not bring any additional copper or gold mineralization with it, but did result in the destruction of chlorite and formation of additional sericite (pyrophyllite). The relationship of the mineralizing events is shown in Plate C.

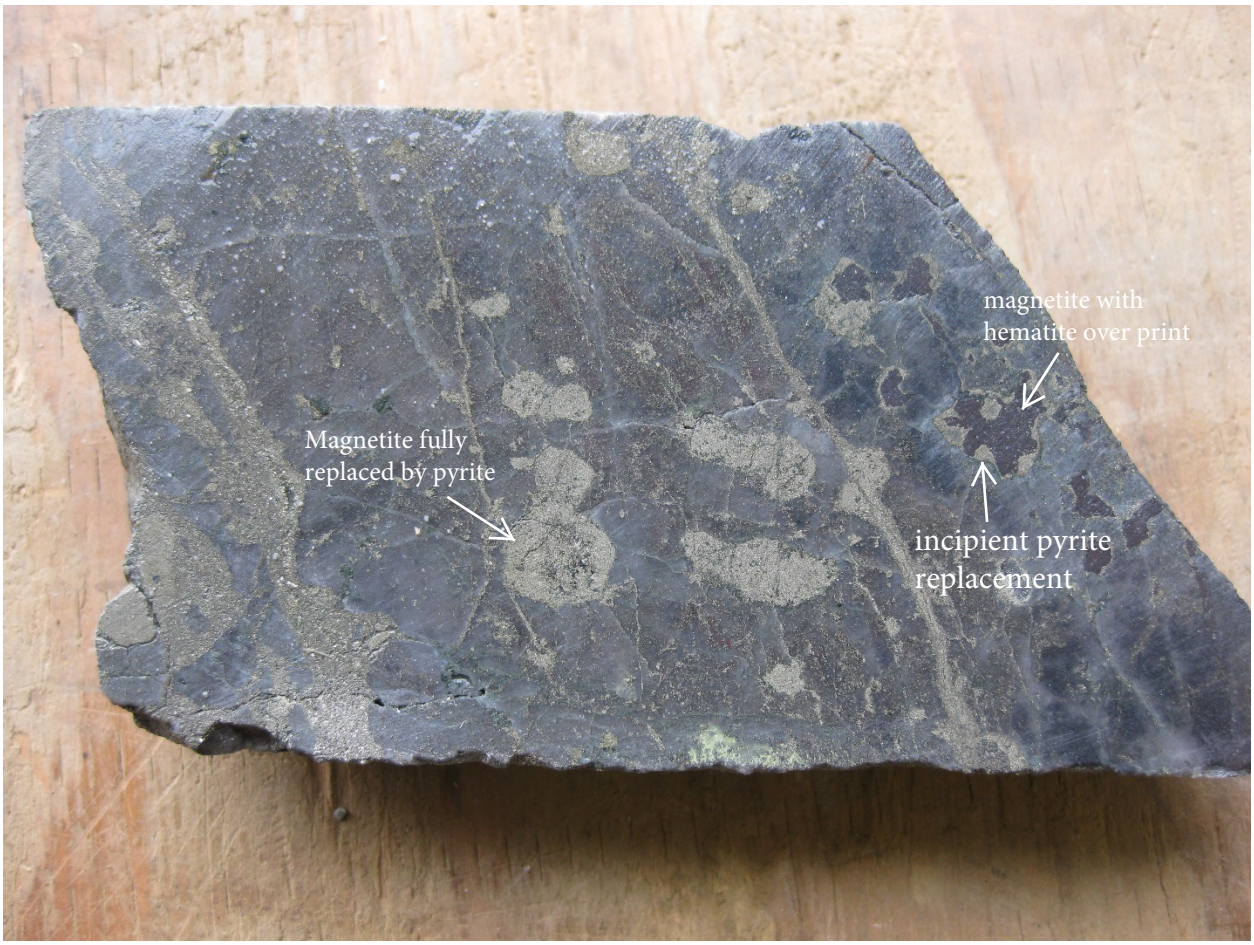


Plate C: Quartz Magnetite Breccia showing late pyrite overprinting.

Plate D Quartz Stockwork in CMG altered Bonanza Volcanic rocks.

Advanced Argillic alteration referred to as SCP forms a large area mainly to the south of the CMG alteration. This alteration is primarily hosted in the Bonanza rocks although it locally extends into dykes of the Red Dog Intrusion and into the contact areas of the Feldspar Porphyry. This year's drilling shows clearly that the contact between the CMG is a major westerly trending fault with a steep southerly dip. The fault is complex and consists of several strands with alternating slivers of CMG and SCP. Movement based on slickensides observed in core show both normal and strike-slip movement. Normal movement is indicated by dominant slickensides present in the fault zones and these indicate a -70 degree plunge to the west. Slickensides with strike-slip movement were more variable in relative movement indication and no firm conclusion could be determined.

Based on last year's TerraSpec analysis and thin section examination of SCP samples, the main alteration minerals are pyrophyllite, diaspore, pervasive silicification, kaolinite and pyrite. Topaz and alunite are also noted. The alteration is typical of advanced argillic alteration found in the upper parts of a porphyry copper system. As such, the area south of the Red dog Knoll and south of the fault separation the SCP and CMG alteration suggests a deeply buried porphyry system may lie at depth.

The SCP is transitional to the south and southwest in to Propyllitic alteration. Propyllitic alteration on the property varies in composition depending on the host rock. It the Bonanza Group rocks is consists of extensive chloritization of the primary mafic minerals, epidote and pyrite generally occurring in cross cutting fractures. In the intrusions, it consists of incipient to complete chloritization of the mafic minerals and incipient sauceritization and sericitization of the plagioclase phenocrysts. Intensity of the alteration is dependent on the distance from the contact with the Bonanza Group rocks. Pyrite in the intrusions is generally as disseminations with minor dry fracture fillings.

The youngest alteration is a zeolite – carbonate alteration consisting of late veins cutting all rock types. The principal zeolite is laumontite with lesser stilbite. The carbonate mineral occurring with the zeolite is often pale pink in colour.

5.2.3 Structure

The dominant structure on the Red Dog Property is normal south facing faults having normal and / or strike slip movement (Fig XX). This has resulted in a series of west northwest blocks. Within the area of the current report, there are two such major faults. The northern most of these faults lies north of the Red Dog Knoll and separates the Red Dog Intrusion from the Quartz Magnetite Breccia and CMG altered Bonanza Volcanic rock. The fault has a steep 70 degree dip to the south southwest. The fault was confirmed by this year's drilling as observed in drill hole RD16-06.

The second major fault located south of Red Dog Knoll. This fault separates the CMG to the north from SCP alteration to the south. Drill-holes RD16-04, RD16-05 and RD16-05A all intersected this fault system. In detail, the fault consists of 3 parallel strands over a north-south horizontal distance of 30 metres. Each fault is from 5 to 10m thick consisting of alternating gouge and crushed rock. Movement on the fault is primarily normal with some strike slip component.

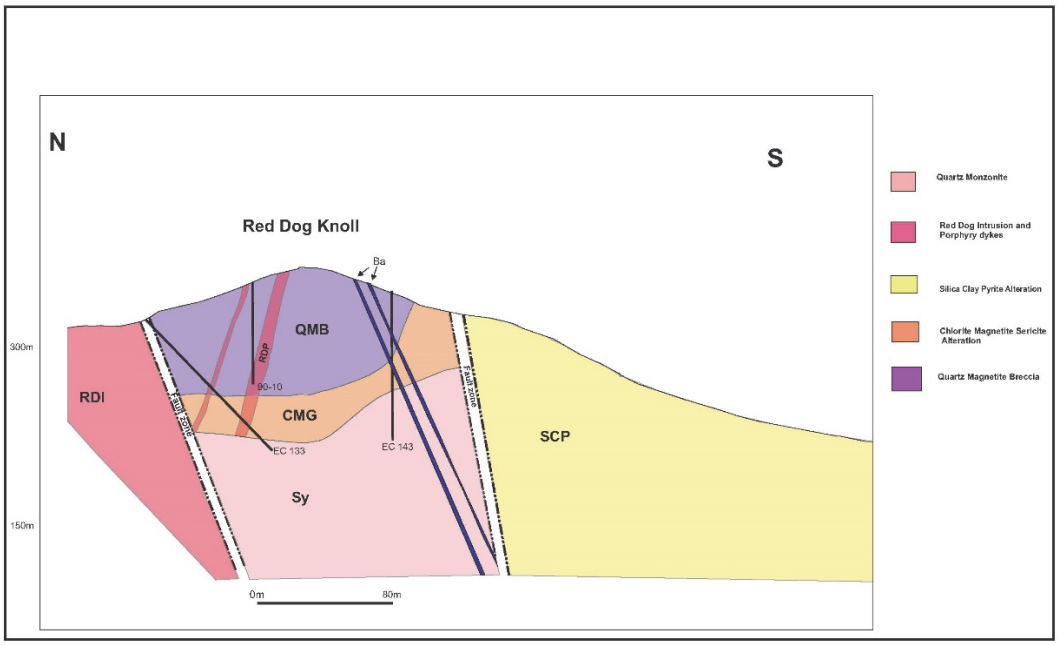


Figure 6: North-south Cross Section

6.0 DRILLING

The 2016 drill program had two components. The primary one was to verify the results of historical drilling by twinning four previously drilled holes. This drilling was required because all of the core from the historical drilling had been lost. The secondary purpose was to test for deeply buried porphyry mineralization beneath the high level alteration south of the Red Dog Knoll. Here, the plan was to drill a 400 to 500 metre hole as a proof of concept test. The location of the drill holes are shown on Fig. 7. Drill and strip logs are provided in Appendix I and II and assay certificates are in Appendix VI. Core from the 2016 drill program is stored at Northisle's core logging facility located in the Quatsino Industrial Site near Coal Harbour BC. Sections with the drill holes plotted are shown in Figures 9 through 13.

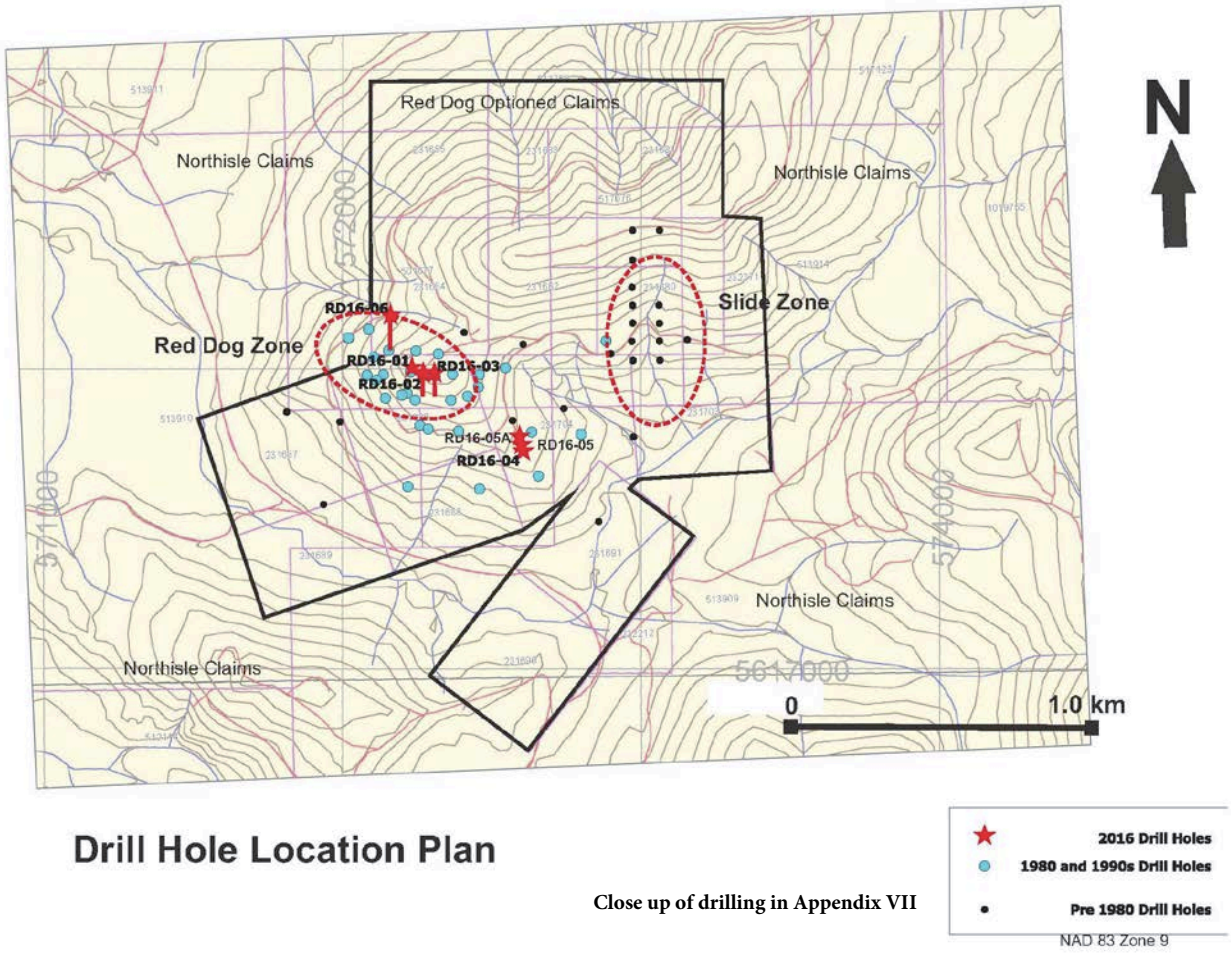


Figure 7: Drill Hole Location Plan

To provide access to the drilling sites, 3.55 kilometres of abandoned logging roads were rehabilitated (Fig 8). At the end of the program the access road was deactivated.

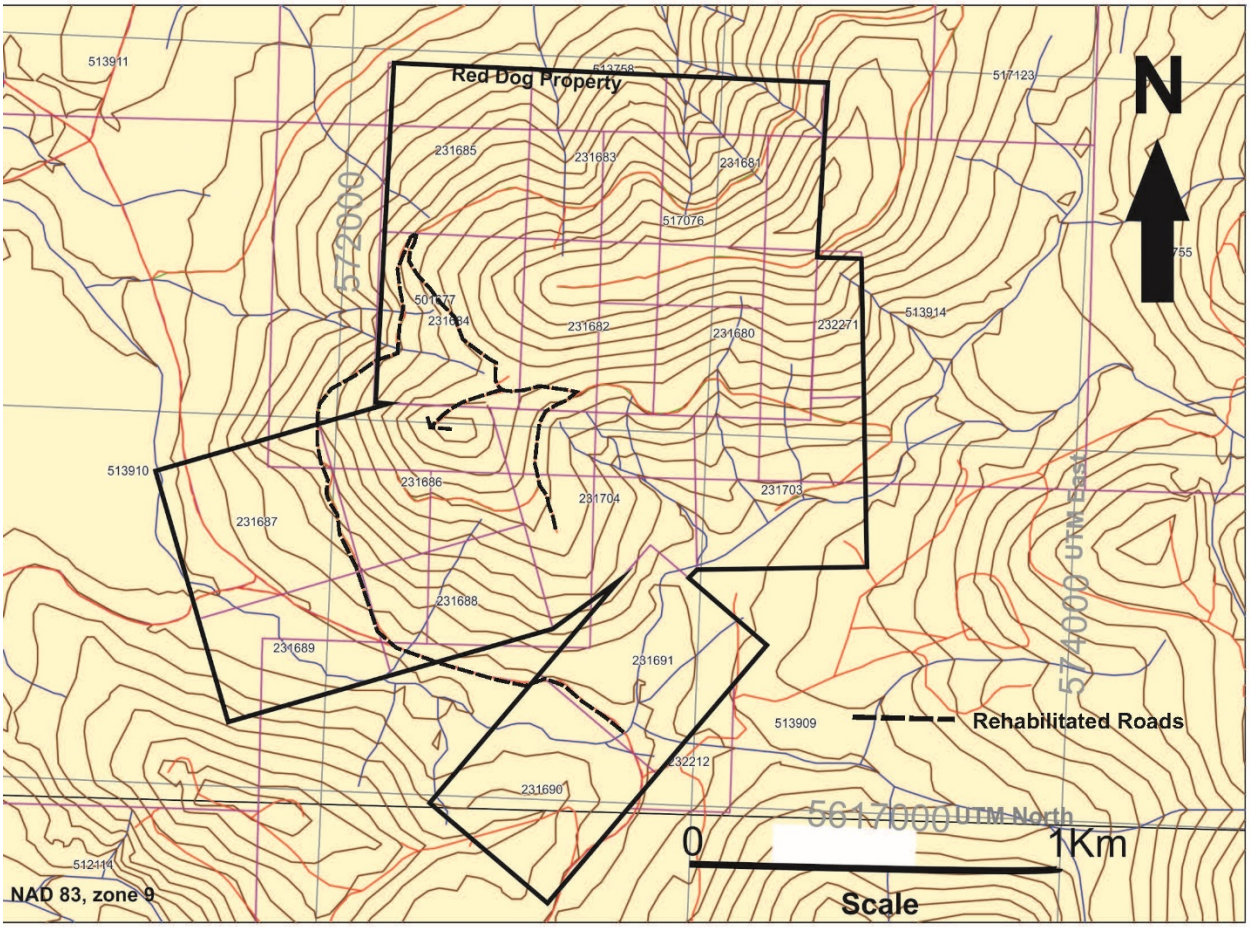


Figure 8, Road Rehabilitation Plan

6.1 Confirmation Drilling

Four holes, two from the 1980s drilling by Utah Mines and two holes from the 1990s Moraga drilling were selected for twinning. The 2016 drill holes were placed from 2 to 7 metres from the respective historical drill hole.

Original Drill Hole	Paired Hole 2016
DDH 90-03 (Moraga)	RD16-01
EC 132A (Utah)	RD16-02
DDH 91-03 (Moraga)	RD16-03
EC 133 (Utah)	RD16-06

The results of the 2016 drill-holes compare closely with their paired historical drill-hole as evidenced in the table below:

Results Historical Holes						2016 Drill-hole Results					
Hole ID	**From**	**To**	**Width**	**Cu %**	**Au gpt**	**Hole ID**	**From**	**To**	**Width**	**Cu %**	**Au gpt**
90-03	3	201	198	0.36	0.61	RD16-01	1.5	200	198.5	0.31	0.47
EC 132 &132A	9.1	155.1	146	0.31	0.51	RD16-02	8	154	146	0.33	0.52
91-03	1.2	71.1	69.9	0.33	0.50	RD16-03	1.2	72	70.8	0.30	0.55
EC 133	30.5	152.4	121.9	0.31	0.46	RD16-06	30	152	122	0.30	0.41

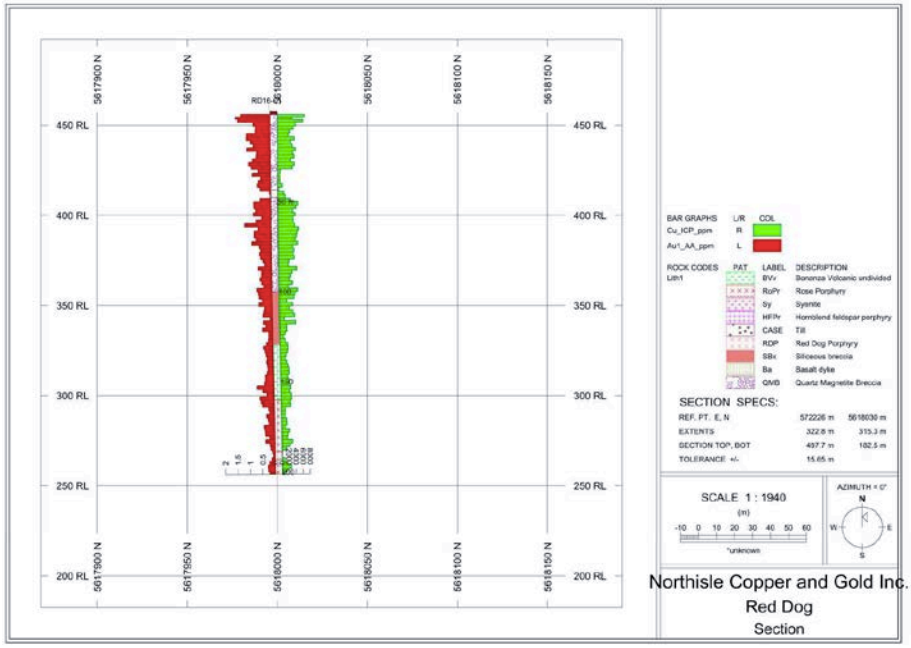


Figure 9, Section RD16-01

Expanded Figure in Appendix VII

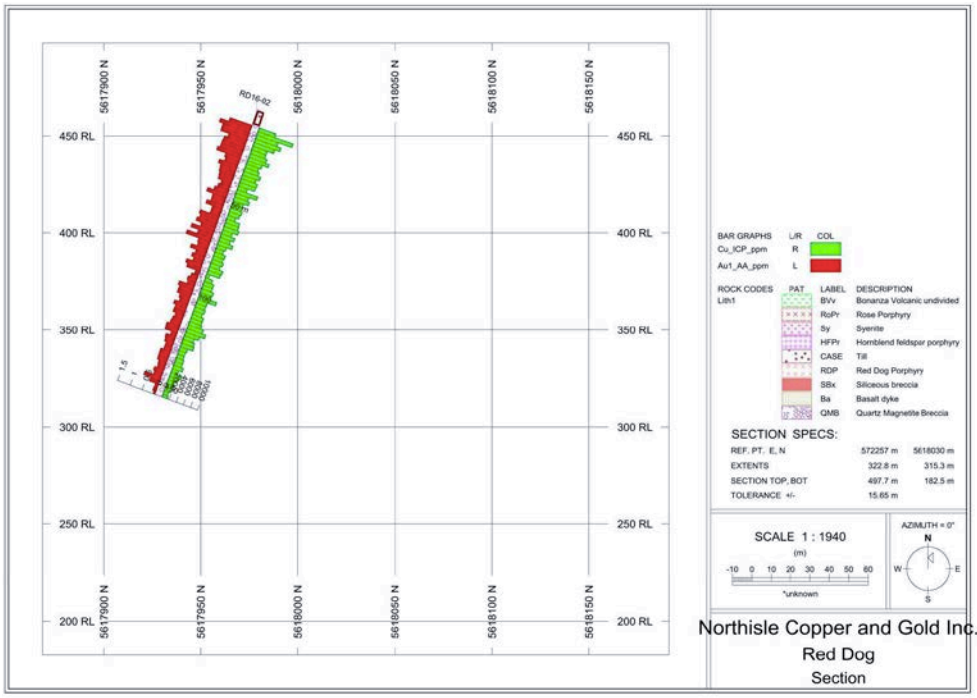


Figure 10: Section RD16-02 **Expanded Figure in Appendix VII**

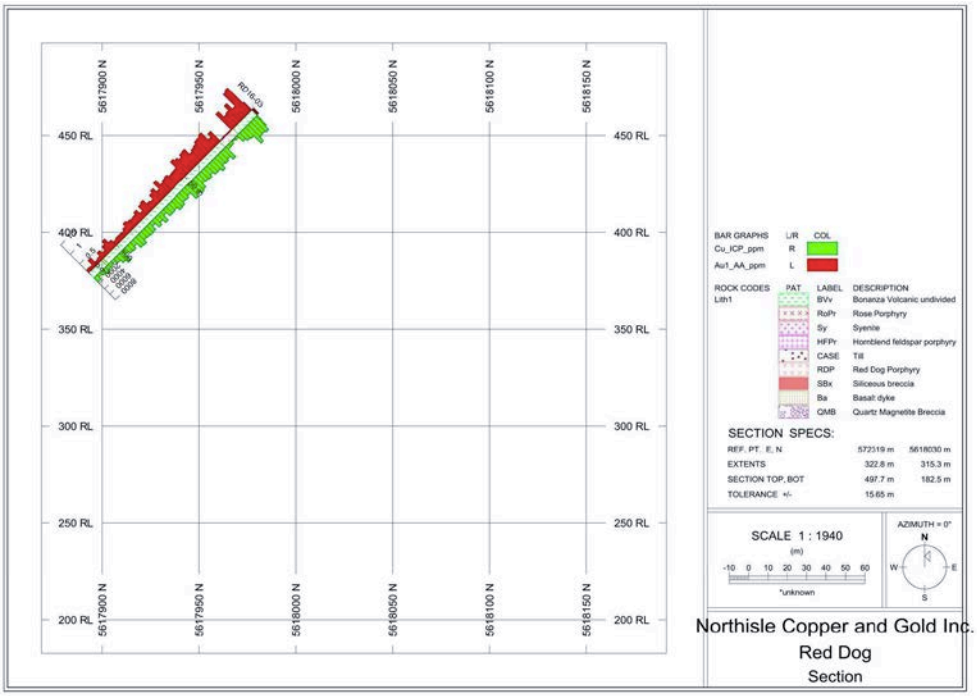
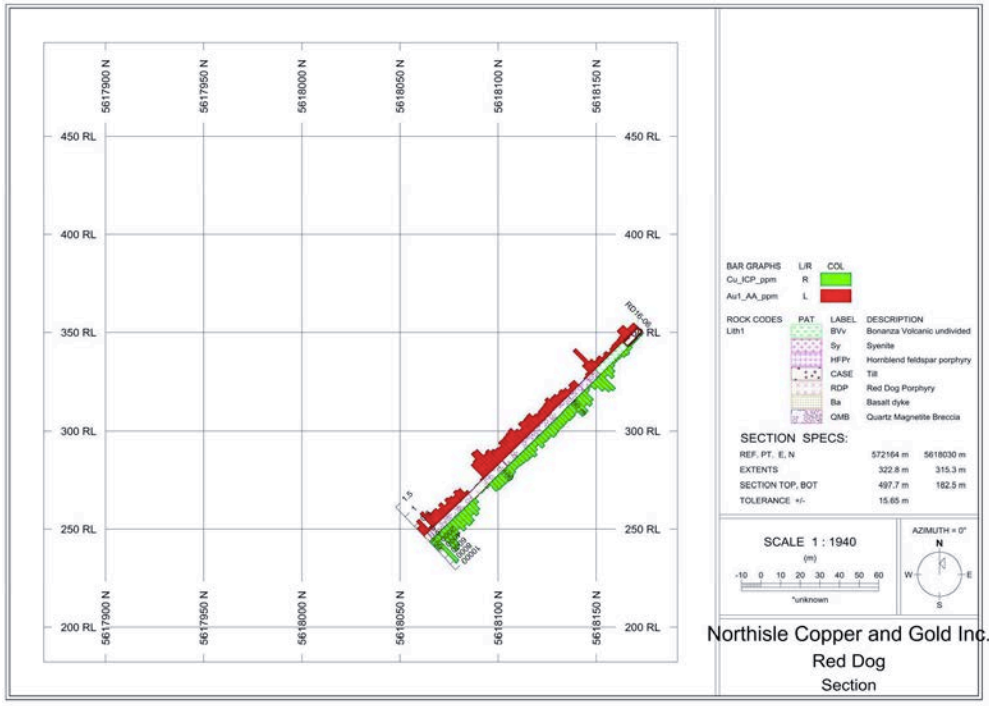


Figure 11: Section RD16-03 **Expanded Figure in Appendix VII**



Expanded Figure in Appendix VII

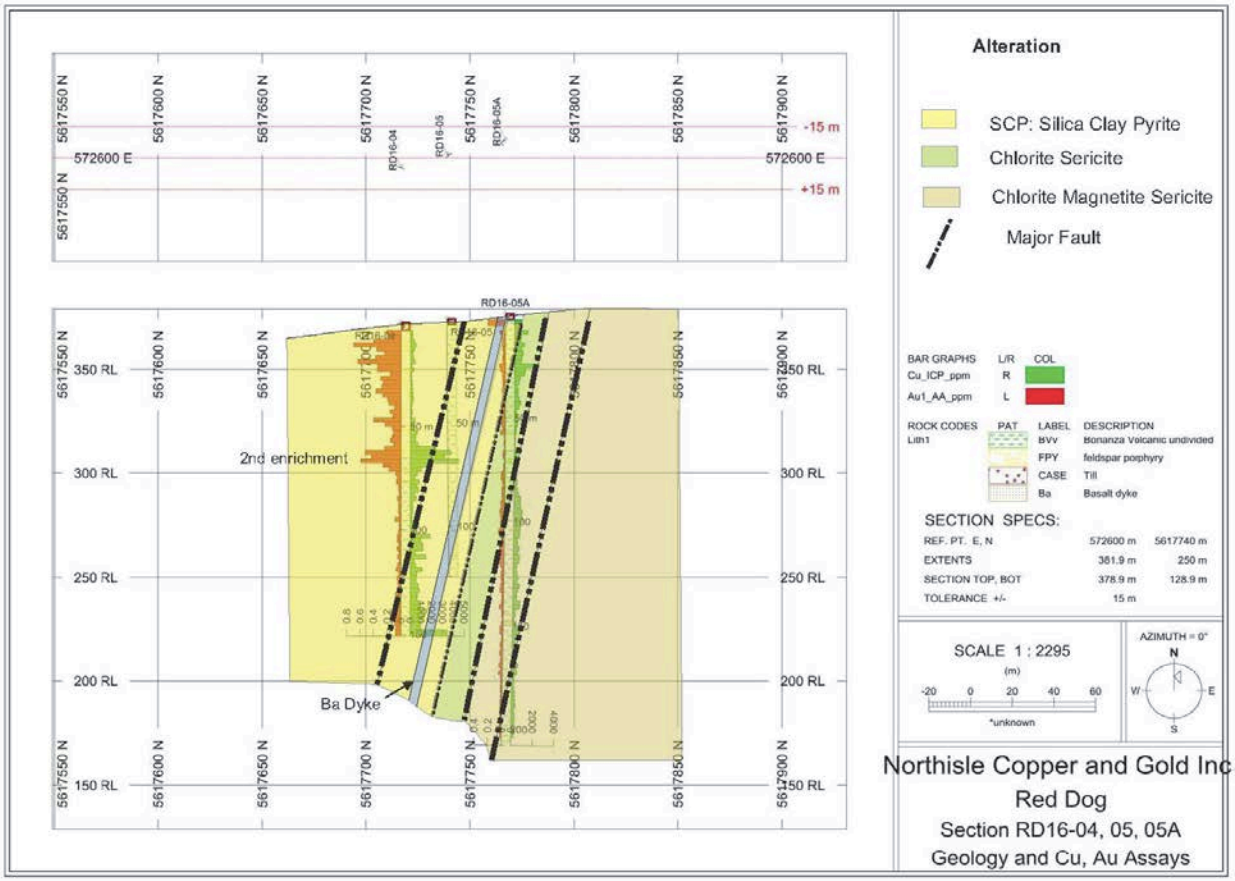
Figure 12: Section RD16-06

6.2 DEEPLY BURIED PORPHYRY TEST

Three attempts were made to drill a 400 to 500 metre deep vertical drill hole to test for a deeply buried porphyry system. Each of the holes was lost due to very poor ground conditions. The initial hole RD16-04 was lost at 150.88 metres. The second attempt was no more successful and lost at 124 metres. The final try, RD16-05A was abandoned at 207.77 metres again due to very poor ground conditions. Holes RD16-04 and RD16-05A were assayed while RD16-05 was not as it was collared close to RD16-04, did not reach the depth of RD16-04 and encountered similar rock types and alteration to RD16-04.

The three holes were drilled in to a complex fault zone containing at least four parallel fault strands. The individual faults in the fault zone range in thickness from 5 to 15 metres separated by 10 to 20 metres of more or less competent rock (Figure xxx). All the faults consist of gouge, crushed rock and breccia. Measurement of fault to core axis gives a -70 degree dip to the faults. Across two of the fault strands there is a significant change in rock alteration. It is believed that the fault system intersected by the three holes is part of a major structural break separating the QMB and CMG alteration on Red Dog Knoll from the higher level alteration SCP alteration on the southern slopes of the Red Dog Knoll.

Drill-hole RD16-04, the most southerly of the hole was collared in strongly argillically altered tuff and tuff-breccia of the Bonanza Volcanic unit. The rock is pervasively silicified with lesser quartz veining and is classified as Advanced Argillic alteration with the property name of SCP. The original silicate minerals are



Expanded Figure in Appendix VII

Figure 13, Section RD16-04, 05, 05A

now altered to pyrophyllite, kaolinite (dickite) and pyrite. The upper parts of RD16-04 is deeply weather and leached of sulphides in the upper 50 metres of the hole. At the base of the leach capping, is a 12 m thick zone of secondary copper enrichment consisting of chalcocite and lesser covellite. Below the enriched zone copper values decrease significantly before slowly increasing in values with depth. The spike high copper at the end of the hole was caused by a fragment of the drill bit crown contaminating the final sample of the hole.

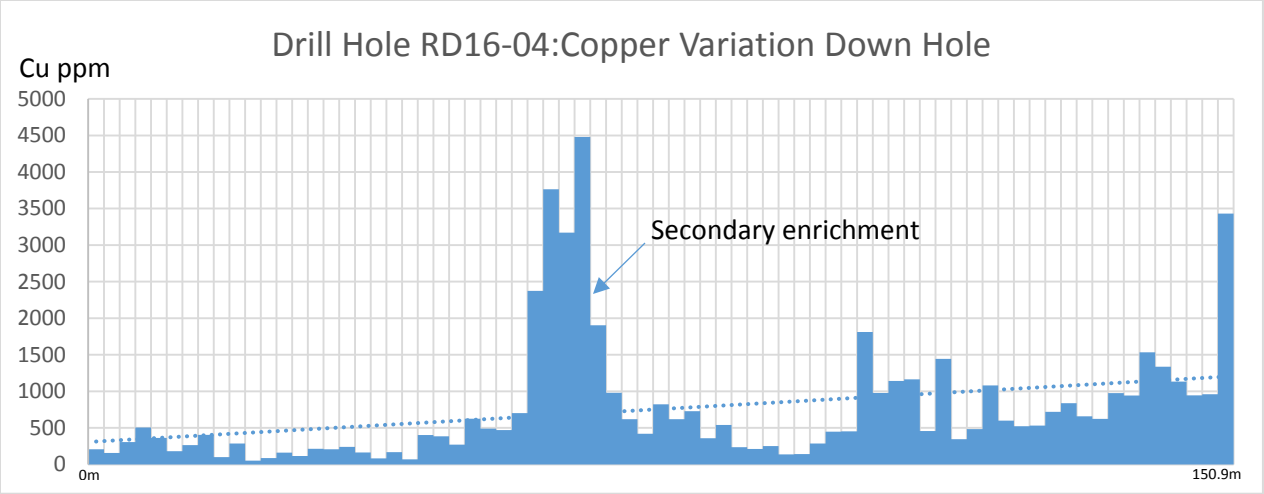


Figure 14: Variation of copper with depth in RD16-04

Drill-hole RD16-05 was collared approximately 30 metres north of RD16-04. The top of the hole cut the projected up dip extension of the fault at the end of RD16-04. In the foot wall of this fault, rocks and alteration is similar to RD16-04 as is the presence of an upper leach capping and weak secondary enrichment beneath the capping. RD16-05 encountered a second major fault zone immediately beneath a narrow basalt dyke. Where the hole was lost at about 124 metres, rock fragments in the gouge were noted with chlorite and sericite alteration, but lacking magnetite. This alteration could be classified as Intermediate Argillic, a type of alteration not previously noted on the Red Dog Property. Because of its close proximity to RD16-04 and similar alteration and mineralization, it was decided not to analyze the core in this hole.

Drill-hole RD16-05A was a further step out of just over 35 metres to the north of RD 16-05. This hole was collared in the up dip projection of the fault, in which, RD16-05 was lost. The rock in RD16-05A is mainly Bonanza Group rock and the alteration is similar to that observed at the very end of RD16-05: intermediate argillic alteration. At 112 metres in the hole, a second major fault zone was cut. In the footwall of this fault there is an abrupt change to CMG – type alteration. This CMG altered rock persisted to the third major fault in the hole at 198.5 metres. This fault zone marked another change in alteration back to SCP (Advanced Argillic alteration).

RD16-05A has only a short section of leaching of sulphides in the first few metres of the hole and the enriched zone likewise is significantly thinner. In part, this may be due to the lower pyrite content of the rock in the top of this hole. Copper grades in RD16-05A are low through the main area of faulting at 112 metres, but pickup once through the fault. Unlike RD16-04, there is no obvious trend of increasing copper grades with depth rather the content of copper appears to weaken.

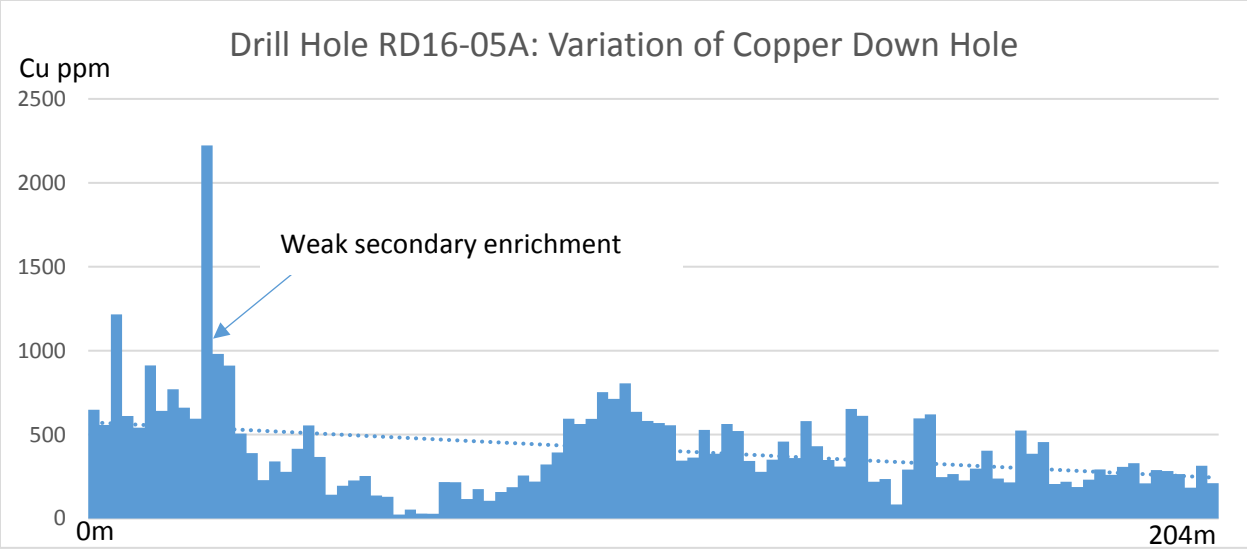


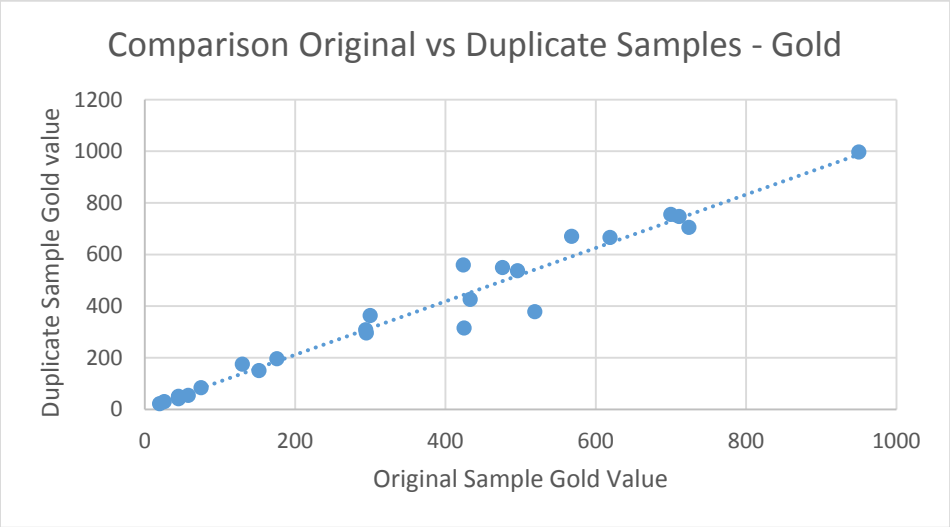
Figure 15: Variation of copper with depth in RD16-05A

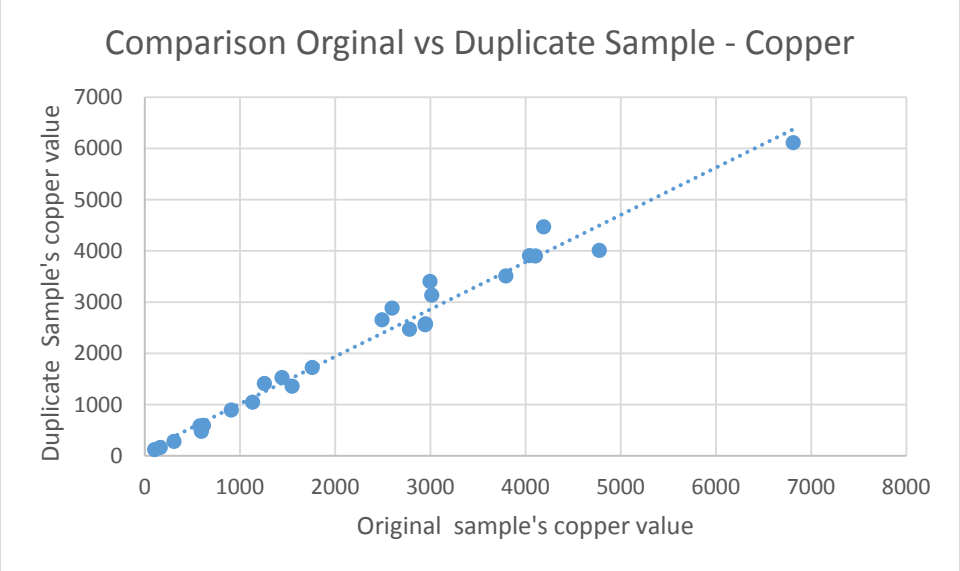
6.3 Quality Control and Quality Assurance.

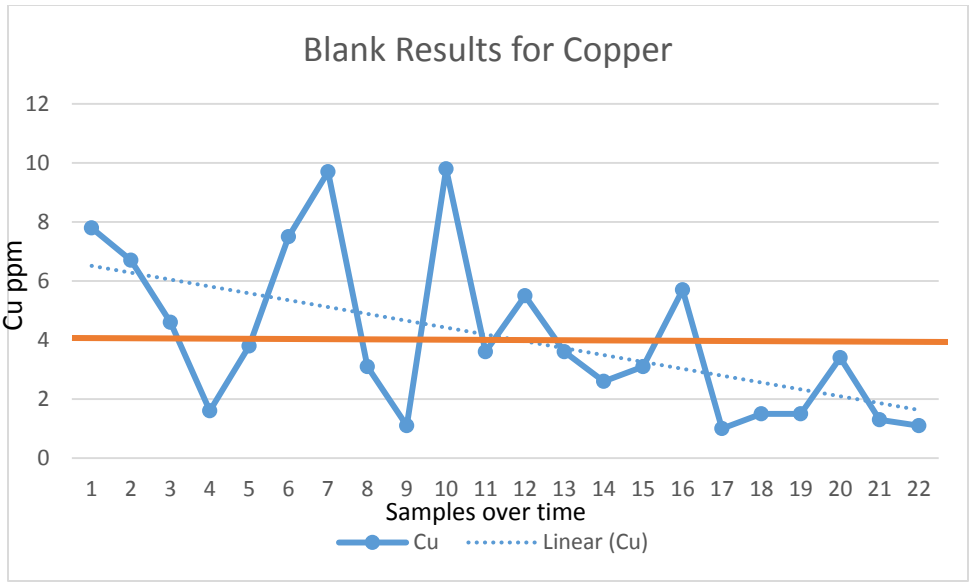
Core from this year's program was placed by the drillers in to plywood boxes carefully marked with box number, sample interval and with wooden blocks to show the start and finish of runs. Lids were nailed on the top of the boxes and a geologist then transported the core first by ATV and then by truck to Northisle's core facility at the Quasino Industrial Site near Coal Harbour. At the core facility, the box lids were removed and the core carefully cleaned, logged for geotechnical information, geology and assay intervals marked out. A cut line was marked down the core for the core cutters to follow. One half of the cut core was placed in a plastic bag with a sample number and the other half returned to the core box. Five samples bags were placed in rice bags and once four such rice bags were accumulated they were placed on a palette and wrapped in cellophane. Once a week, the samples were picked up by VanKam Freight for shipment to BLV laboratories in Vancouver for analysis. At BLV laboratories, the samples were analysed for gold and 45 other elements. Gold analysis was by fire assay preparation with ICP finish. The other elements were analysed by ICP mass spectrometry.

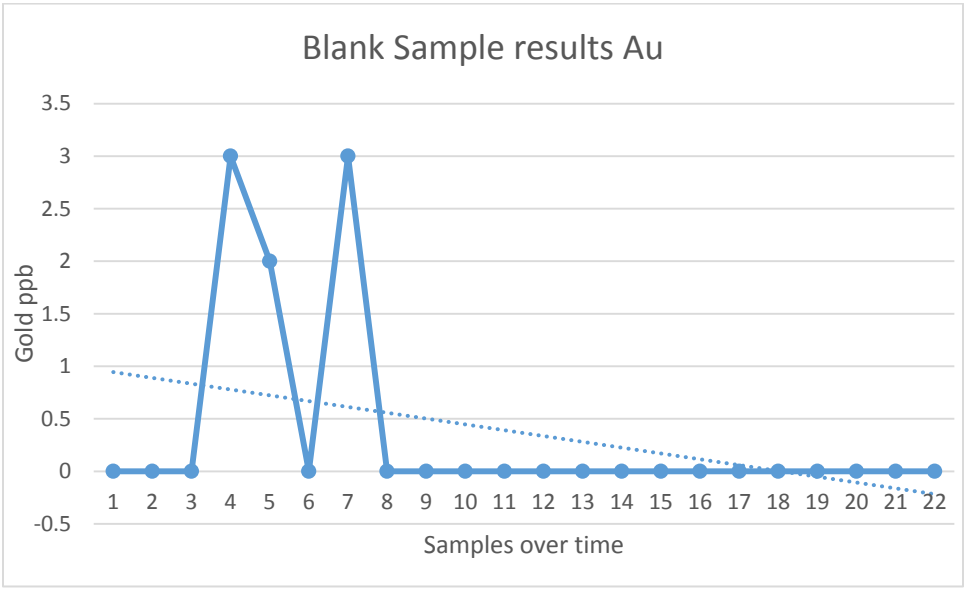
To ensure quality control on the analysis of samples of core standards and blank pulps were inserted into the sample stream. The standard pulps consisted of a low standard and a high standard. One of each was inserted with every 20 core samples. In addition, a coarse blank sample was included with each group of 20 samples. A further check on quality and reliability was done by sending in duplicate samples. The duplicates consisted of quartering rather than halving the core. One quarter was shipped with the other samples while the other quarter was held back and sent to the laboratory in a later shipment. A final check on assaying was reanalyses of sample pulps by an independent laboratory, ALS laboratories in North Vancouver.

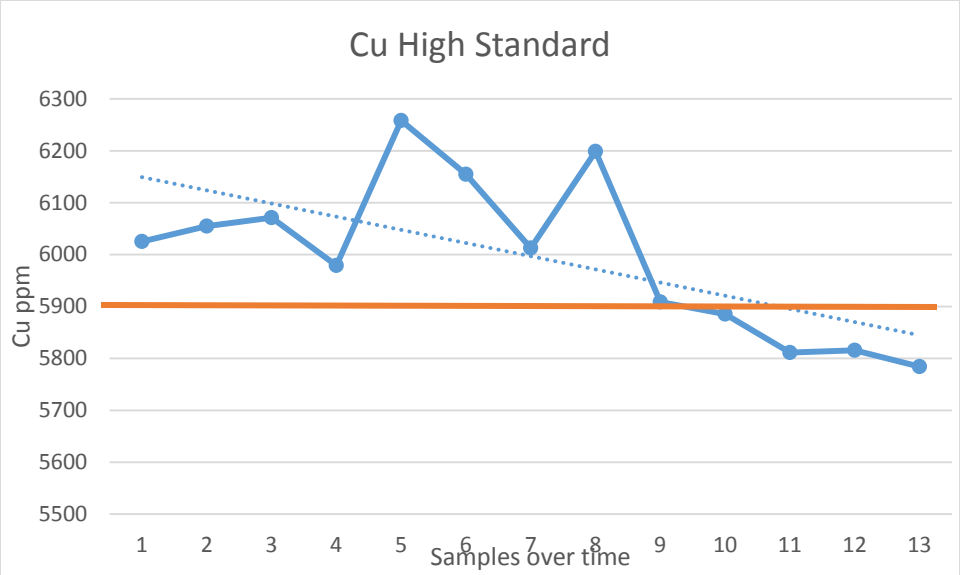
The QA / QC program did not identify any problems or inconsistency in the analyses of samples. There was a slight drift with time in copper values and a slight, but not significant bias in copper and gold between BLV and ALS. Plots showing the results of the check sampling are presented below:

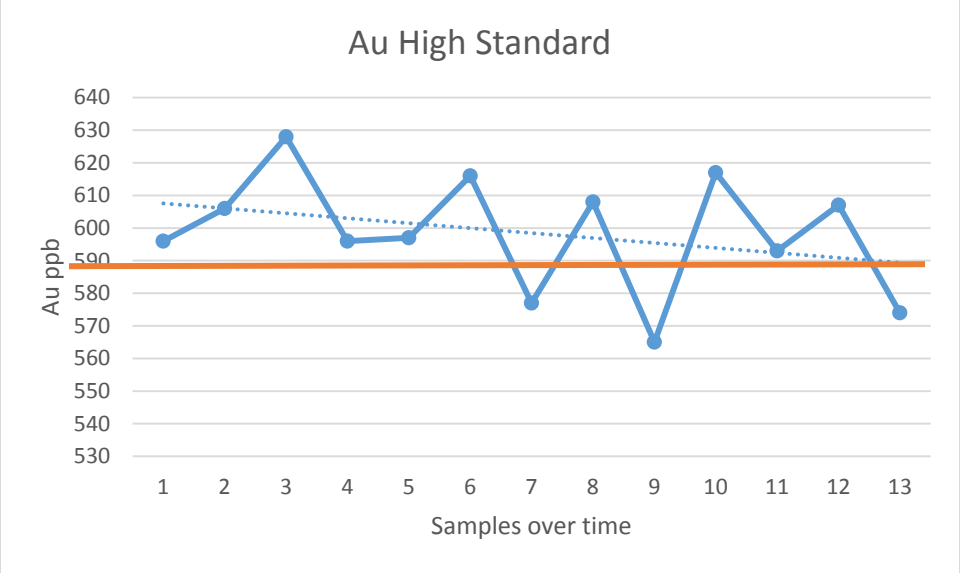


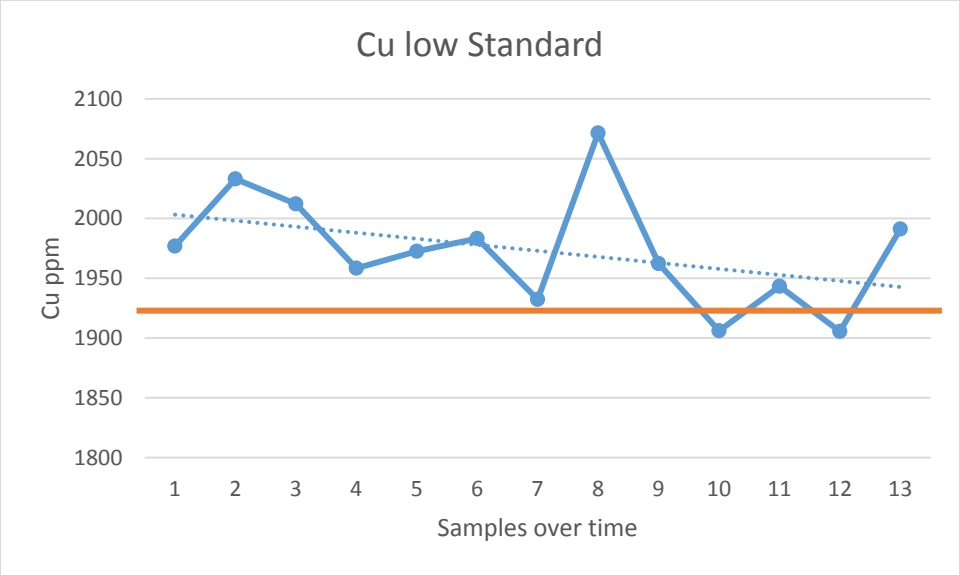


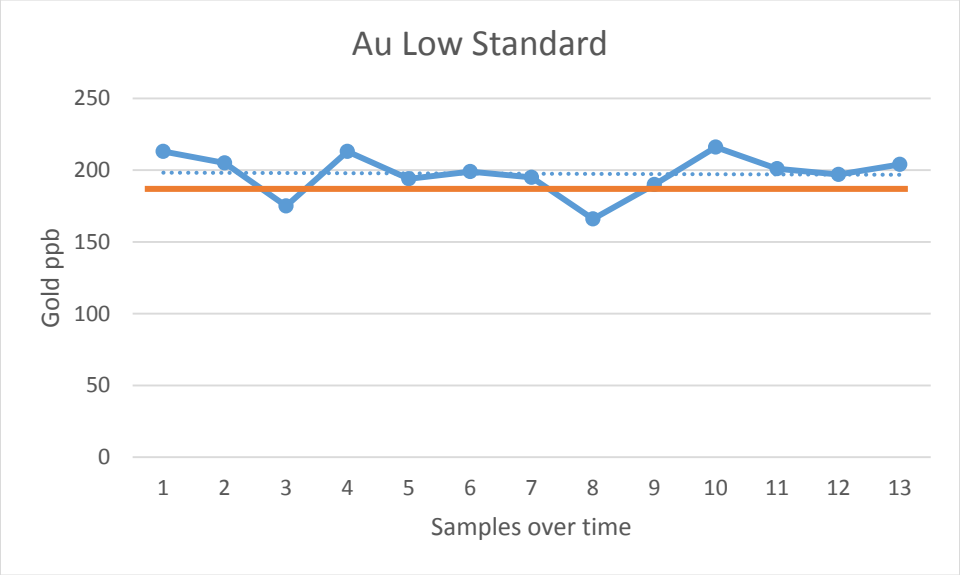

Blank Results for Copper
Cu ppm
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Samples over time
Cu
Linear (Cu)

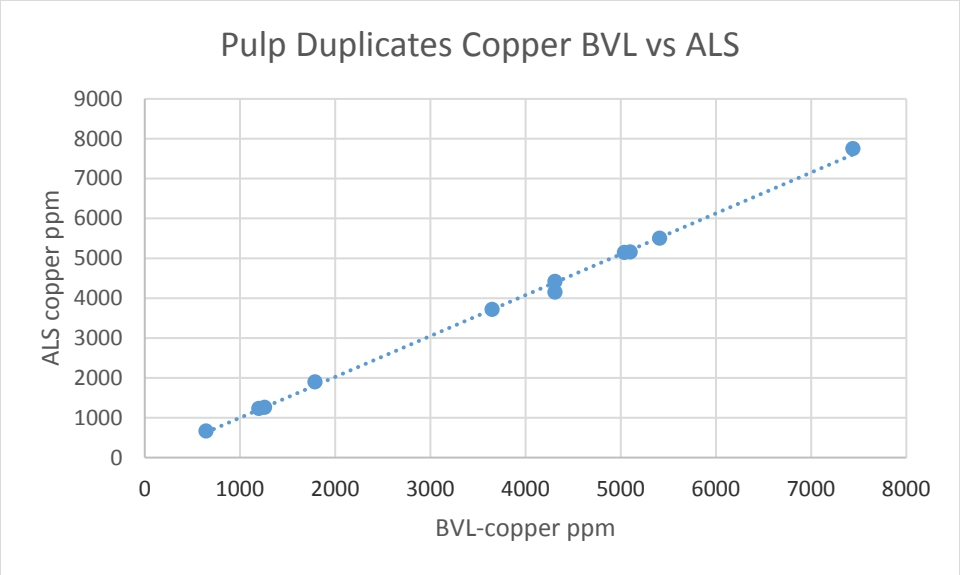

Blank Sample results Au
Gold ppb
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Samples over time

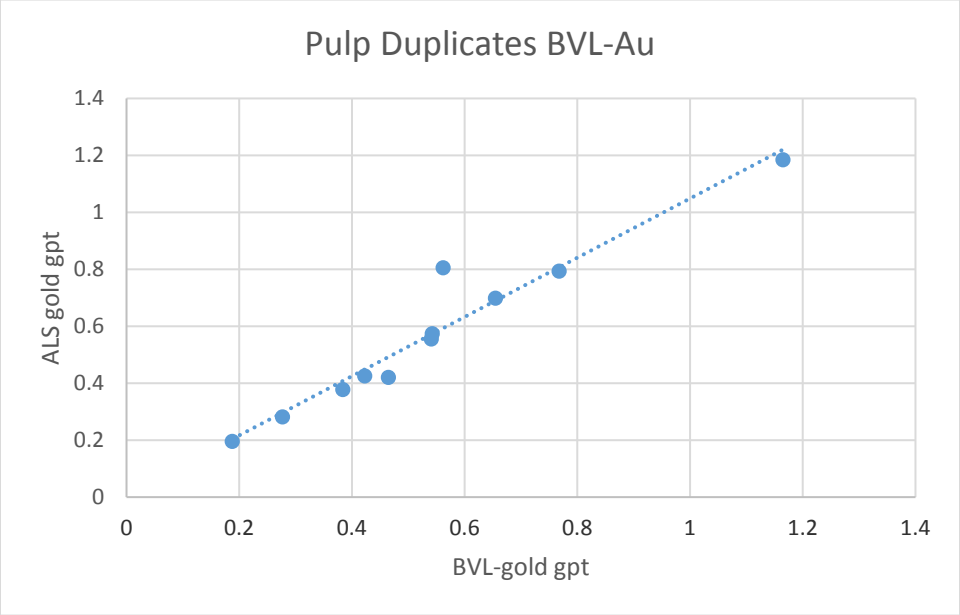

Cu High Standard
6300
6200
6100
6000
5900
5800
5700
5600
5500
Cu ppm
1 2 3 4 5 6 7 8 9 10 11 12 13
Samples over time


Au High Standard
640
630
620
610
600
590
580
570
560
550
540
530
Au ppb
1 2 3 4 5 6 7 8 9 10 11 12 13
Samples over time


Cu low Standard
2100
2050
2000
1950
1900
1850
1800
Cu ppm
1 2 3 4 5 6 7 8 9 10 11 12 13
Samples over time


Au Low Standard
250
200
150
100
50
0
Gold ppb
1 2 3 4 5 6 7 8 9 10 11 12 13
Samples over time





7.0 CONCLUSIONS

The drilling this year confirmed the results of the four historical drill holes providing verification of the reliability of the historical exploration results and allowing the previously drilled holes to be used in a revised resource calculation.

The test for a deeply buried porphyry system to the south and southeast of the Red Dog historical resource was inconclusive. All three attempts to drill a 400 to 500 metre deep hole was unsuccessful with each

attempted drill-hole being lost in a major fault. These holes did confirm the presence of a major, westerly striking fault zone located south of the Red Dog Knoll and that this fault juxtaposes mid-level porphyry type alteration against high level advanced argillic alteration. The fault zone consists of at least four fault strands separating panels of less deformed and differently altered rocks. The fault zone is -70 degree dipping to the south and has mainly normal movement. On the south side of the fault zone is high level SCP alteration (advanced argillic), in the middle panel is intermediate argillic alteration (chlorite – sericite) and on the north side CMG (chlorite, sericite, magnetite). The possibility for a deeply buried porphyry system remains to be tested. Any future test should place the collar of the hole a minimum distance of 200 metres to the south of RD16-04.

8.0 RECOMMENDATIONS

The calculation of a current resource is a priority and should go forward.

A second attempt to test for a deeply buried porphyry system is recommended. Any such test should take in account the presence of the major fault system that thwarted this year's attempt and the hole should be collar 200 metres south of RD16-04.

9.0 STATEMENT of COSTS

Preparatory Work

June 1 through 17

J. McClintock P.Eng: Planning / Maps / Supplies 24hrs@ $125/ hr	**$ 3,000.00**

Field Related

Wages		
	John McClintock P. Eng: Supervision, logging and data management	
	June 20 through Aug 20: 309 hrs @ $125 / hr	$38,750.00
	Blake Macdonald BSc. Site logistics, set up and demob	
	June 30 through July 29: 40 days @ $600 / day	$24,000.00
	Aug 20 to 23: 4 days @ $600 / day	$2,400.00
	Michael McClintock BSc. Core Logging, geotech	
	July 7 through Aug 17: 39 days@450 / day	$17,550.00
	Santiago Seiler BSc. Geotech, core management	
	July 15 through 18 and July 29 through Aug 1	$4,500.00
Accommodation Port Hardy June 20 through Aug 24		$8,017.50
Travel /transportation / meals		$4,775.78
Core facility rental/ sanitation/ electrical / security / core cutting		$17, 828.00
Truck (two), fuel and maintenance		$4,405.16
Misc field supplies inc. saw blades, flagging, tapes		$2,551.62
Groceries		$1,340.96
ATV rentals, metal detector		$2919.76
Road use fee: Western forest Products		$500.00
Drilling Charges Klhane Drilling		$139,915.70
Fuel for drill		$15,094.80
Core boxes and transport		$6,172.77
Analyses BVL and ALS Labratories		$38,370.00
Road reconstruction, drill pads and drill moves North Island Rockpro		$40,714.00
Surveying drill sites Bazett Land Surveying		$1,985.90
Helicopter		$1156.50

$372,947.75

Report Preparation

J. McClintock P.Eng Nov 11 through Nov 30, 20hrs@$125/hr **$2,500.00**

Total Expenditures **$378,447.75**

10.0 REFERENCES

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11.0 CERTIFICATION

I, John McClintock, residing at 902 – 1470 Pennyfarthing Drive, Vancouver, British Columbia, do hereby certify that:

1. I am a consulting Geologist;
2. I obtained a BSc (Hons) from the University of British Columbia in 1973 and an MBA from Simon Fraser University in 1989;
3. I have continually practised my profession as a geologist since 1973;
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia registration number 12078;
5. I visited the property from June 18 to August 20, 2016 and supervised the work carried out on the property;
6. I own shares and have share options in Northisle Copper and Gold Inc. and am the President of the company.

Dated at Vancouver, British Columbia, December 1, 2016

Appendix 1

Drill Logs

NORTHISLE COPPER AND GOLD INC.

GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-01**

Prospect:		Survey Type:	DGPS	Logged By:	MM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	09/07/2016
Easting:	572231.76	Azimuth:	360	Date Completed:	13/07/2016
Northing:	5617996.41	Dip:	-90	Drill Company:	Kluane
Elevation (m):	457.56	Length (m):	201.17	Drill Rig:	
Hole Type:	DD			Drill Started:	09/07/2016
Hole Diameter:				Drill Completed:	13/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑	Twin hole of historical hole 90-03			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-88.8	296.8	17.25	314.05	ReflexEZS	Unknown	14/07/2016	5710	☑	Measurement taken in quartz magnetite breccia. Reading suspect
40	-89.1	303.4	17.25	320.65	ReflexEZS	Unknown	14/07/2016	6057	☐	Reading suspect due to magnetitc unit
60	-88.9	277.7	17.25	294.95	ReflexEZS	Unknown	14/07/2016	5639	☑	Reading suspect due to magnetic wall rock
80	-88.6	290	17.25	307.25	ReflexEZS	Unknown	14/07/2016	5370	☑	Reading suspect
100	-89.1	316.3	17.25	333.55	ReflexEZS	Unknown	14/07/2016	5461	☑	Reading suspect
120	-88.7	320.2	17.25	337.45	ReflexEZS	Unknown	14/07/2016	5416	☑	Reading suspect
160	-88.3	296	17.25	313.25	ReflexEZS	Unknown	14/07/2016	5363	☑	Reading suspect due to magnetic wall rock
180	-88.9	305.1	17.25	322.35	ReflexEZS	Unknown	14/07/2016	5361	☑	\magnetic wall rock. Reading suspect.
200	-89.1	290.8	17.25	308.05	ReflexEZS	Unknown	14/07/2016	5340	☑	Measurement in quartz magnetite breccia. Reading suspect.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	
0.00	**1.50**	**CASE Drill casing/overburden**								

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
1.50	**43.50**	**QMP** **Quartz Magnetite Breccia: grey FG Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	1.52	3.05	N252938	1.5	1.184	7752.3	109.9
		1.5 - 43.5: Breccia of magnetite fine grained replacing original mafic volcanic rock with matrix of light pinkish coloured fine grained quartz. Some later breaking and rotation of fragments.							
		<<Min: 1.52 - 18: 3% pyrite / 10% magnetite / 15% hematite / 1% chalcopyrite / 3% limonite>> Magnetite replacement of primary rock, hematite overprinting magnetite. Pyrite is as diseminations and along fractures. Limonite is weathering product of pyrite. Chalcopyrite mainly as disseminated grains where hematite has replaced magnetite.	3.05	4.00	N252939	1.6	1.414	4164.2	298.4
		<<Min: 18 - 24: 5% pyrite / 10% magnetite / 15% hematite / 1% chalcopyrite>>	4.00	6.00	N252940	2.1	1.325	7373	118.1
		<<Min: 24 - 30: 1.5% pyrite / 10% magnetite / 15% hematite / 0.5% chalcopyrite>>	6.00	8.00	N252941	0.7	0.704	5309	62.7
		<<Min: 30 - 44.2: 0.1% pyrite / 5% magnetite / 5% hematite / 0.1% chalcopyrite>>	8.00	10.00	N252942	0.5	0.593	4622	91.3
		<<Alt: 1.52 - 43.5: intense Chlorite-Magnetite (+/- Si) / weak Argillic (fault related)>> Primary alteration is magnetite replacement of mafic volcanic fragements and quartz floding / veining. This is overprinted by redish hematization of the magnetite and chloritization of the remenant volcanic material. Minor sericitization also present.	10.00	12.00	N252944	1	0.605	3596.6	229.1
		<<Vein: 1.52 - 43.5: 2% Carbonate-Chlorite>> Late carbonate / zeolite veining. Locally, takes on a salmon pink colour.	12.00	14.00	N252945	0.7	0.962	3238.6	257.3
		<<Struc: 1.8 - 1.82: moderate to strong Fracture 55 deg. >> Small fracture zone	14.00	16.00	N252946	0.6	0.979	4925.2	66.2
		<<Struc: 4 - 4.1: moderate Brittle Fracture 15 deg. >>	16.00	18.00	N252947	0.5	0.814	3754.9	75.6
		<<Struc: 6 - 6.5: strong Gouge 36 deg. >>	18.00	20.00	N252948	0.6	0.711	4191.2	98.5
		<<Struc: 9 - 9.75: strong Gouge 65 deg. >>	18.00	20.00	N252949	0.5	0.747	4466.7	102.1
		<<Struc: 13.75 - 15: moderate to strong Gouge 50 deg. >> Mixed gouge and fault rubble	20.00	22.00	N252950	1.1	0.951	5226.2	81.9
		<<Struc: 18.35 - 18.65: moderate to strong Fault Zone 55 deg. >>	22.00	24.00	N252951	0.8	0.562	4309.6	52.9
		<<Struc: 24.38 - 25.1: moderate to strong Fault Zone 45 deg. >>	24.00	26.00	N252952	0.6	0.582	4822.4	41.5
			26.00	28.00	N252954	0.3	0.746	3640.3	28.9
			28.00	30.00	N252955	0.6	0.889	4858.4	29.7
			30.00	32.00	N252956	0.7	0.793	4148.6	67.5
			32.00	34.00	N252957	0.6	0.517	820.3	35.4
			34.00	36.00	N252958	0.8	0.765	633.7	41.6
			36.00	38.00	N252959	0.9	0.42	666	28
			38.00	40.00	N252960	0.5	0.511	703.8	30.1
			40.00	42.00	N252961	0.4	0.553	1265.5	20.6
			42.00	44.00	N252963	1	0.45	325.3	16.7

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
43.50	**47.50**	**RDP** **Red Dog Porphyry: Crowded porphyritic textured tonnalite.** **leucocratic** **MG**	44.00	46.00	N252964	0.3	0.075	1614.6	8.1
43.5 - 47.5: Hornblende feldspar porphyry, lacks quartz eyes. Late mineral, minor disseminated pyrite.									
<<Min: 44.2 - 47.5: 1% pyrite>>			46.00	48.00	N252965	0.2	0.022	2178.3	2.4
<<Alt: 43.5 - 47.5: moderate Propylitic>> Moderate propylitic alteration with minor dis pyrite and dry fracture fillings									
<<Vein: 43.5 - 47.5: 2% Calcium carbonate/Carbonate>> late carbonate veining as above									
<<Struc: 43.5 - 43.7: strong Gouge 55 deg. >>									
<<Struc: 44.6 - 44.8: strong Gouge>>									
47.50	**100.00**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **grey** **FG**	48.00	50.00	N252966	0.4	0.457	3481.6	15.8
47.5 - 100: As above. From 32 to 44.2 m sulphides leached and rock has a vuggy texture. This leach zone is associated w a steeply dipping fracture zone.									
<<Min: 47.5 - 58: 3% pyrite / 10% magnetite / 10% hematite / 1% chalcopyrite>>			50.00	52.00	N252967	0.5	0.718	5627.6	30.5
<<Min: 58 - 61: 6% pyrite / 5% magnetite / 3% hematite / 0.75% chalcopyrite>> Increased pyrite associated with SCP overprint at expense of magnetite and hematite.			52.00	54.00	N252968	0.5	0.698	5146.2	23.9
<<Min: 61 - 78: 3% pyrite / 13% magnetite / 7% hematite / 1% chalcopyrite>>			54.00	56.00	N252969	0.3	0.619	4106.1	25.3
<<Min: 78 - 83: 4% pyrite / 15% magnetite / 8% hematite / 0.3% chalcopyrite>>			54.00	56.00	N252970	0.3	0.666	3899	32.6
<<Min: 83 - 89: 8% pyrite / 6% magnetite / 5% hematite / 1% chalcopyrite>>			56.00	58.00	N252971	0.4	0.735	4942.1	27.8
<<Min: 89 - 93: 3% pyrite / 8% magnetite / 4% hematite / 1% chalcopyrite>>			58.00	60.00	N252972	0.3	0.402	4195.1	53
<<Min: 93 - 134: 8% pyrite / 7% magnetite / 4% hematite / 1% chalcopyrite>>			60.00	62.00	N252973	0.4	0.609	4411.9	24.6
<<Alt: 47.5 - 201.17: intense Chlorite-Magnetite (+/- Si) / trace Silica-Clay-Py>> As above, SCP over print localized in fault and gouge zones and emanates outward from fractures			62.00	64.00	N252974	0.5	1.084	4743.7	30.8
<<Vein: 47.5 - 123: 3% Pyrite / 2% Calcium carbonate/Carbonate>> Late dry fracture filling pyrite. Generally fine graine some crystals to 1mm. Increase with depth and in areas with SCP overprint of primary C|mG alteration.			64.00	66.00	N252975	0.6	0.537	5783.5	37.7
<<Struc: 93 - 96.3: moderate Brittle Fracture 35 deg. >>			66.00	68.00	N252976	0.3	0.685	5431.1	35.8
			68.00	70.00	N252978	0.3	0.695	5173.4	55.1
			70.00	72.00	N252979	0.4	0.611	4880	53.9
			72.00	74.00	N252980	0.3	0.805	5503.3	50.5
			74.00	76.00	N252981	0.4	0.506	4066	38.3
			76.00	78.00	N252982	0.5	0.456	4495.2	33.7

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
					78.00	80.00	N252983	0.4	0.503	4215.2	23.5
					80.00	82.00	N252984	0.4	0.46	4519.8	28.8
					82.00	84.00	N252985	0.2	0.352	3011.5	38.6
					84.00	86.00	N252987	0.2	0.289	2801.2	38.3
					86.00	88.00	N252988	0.5	0.555	5155	45.7
					88.00	90.00	N252989	0.3	0.428	3741.9	39.9
					90.00	92.00	N252990	0.2	0.436	3328.3	47.9
					92.00	94.00	N252991	0.2	0.494	2969.8	86.8
					94.00	96.00	N252992	0.2	0.433	3795.3	41.2
					94.00	96.00	N252993	0.2	0.426	3508.9	46.5
					96.00	98.00	N252994	0.2	0.331	2770.6	51.1
					98.00	100.00	N252995	0.3	0.614	5314.4	57.3
100.00	**123.45**	**SBx**	**Siliceous Breccia: Silica and pyrite forms matrix and partially replaces breccia clast of Bonanza Volcanic and RDP. Differs from QMB in the absence of magnetite.**	**leucocratic FG**	100.00	102.00	N252996	0.3	0.56	4620	40.1
					102.00	104.00	N252997	0.3	0.539	4279.8	38.1
					104.00	106.00	N252998	0.2	0.393	2205.1	60.9
					106.00	108.00	N252999	0.3	0.55	3768.2	33.2
					108.00	110.00	N253001	0.1	0.315	2886.9	117.5
					110.00	112.00	N253002	0.2	0.343	3868.1	38.5
					112.00	114.00	N253003	0.3	0.377	4417.6	80
					114.00	116.00	N253004	0.1	0.096	1342.8	54.9
					116.00	118.00	N253005	0.3	0.369	4656.3	45.5
					118.00	120.00	N253006	-0.05	0.283	2077	60.2
					120.00	122.00	N253007	0.1	0.41	2109	39.9
					122.00	124.00	N253008	0.1	0.178	1694.7	38.4

100 - 123.45: Magnetite clasts are largely replaced by later pyrite.

<<Vein: 123 - 188.7: 10% Quartz / 3% Pyrite / 2% Calcium carbonate/Carbonate>>

<<Struc: 100.96 - 101.1: strong Gouge 62 deg. >>

<<Struc: 103.35 - 103.45: strong Gouge 50 deg. >>

<<Struc: 114.15 - 118.9: moderate to strong Fault Zone 41 deg. >> Fault / fracture zone with local sections of gouge

<<Struc: 121 - 121.1: strong Gouge 45 deg. >>

<<Struc: 122 - 123.44: moderate Fracture 45 deg. >> Fracture zone

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
123.45	**129.40**	**SBx** **Siliceous Breccia: Silica and pyrite forms matrix and partially replaces breccia clast of Bonanza Volcanic and RDP. Differs from QMB in the absence of magnetite.**	**green**	**FMG**	124.00	126.00	N253009	-0.05	0.18	1001	54.3
123.45 - 129.4: Transitional zone between siliceous breccia and altered \bonanza Volcanic andesite tuffs											
<<Struc: 124.45 - 124.55: moderate Fracture 60 deg. >>					126.00	128.00	N253010	0.1	0.194	1573.4	55.4
					128.00	130.00	N253012	0.2	0.277	2212.7	45.7
129.40	**160.00**	**BVv** **Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs**		**MG**	130.00	132.00	N253013	0.2	0.386	2315.7	56.4
129.4 - 160: Grey green andesite alteration obliterates the primary rock features.											
<<Min: 134 - 150: 5% pyrite / 12% magnetite / 7% hematite / 1% chalcopyrite>>					132.00	134.00	N253014	0.1	0.334	2174.8	80.4
<<Min: 150 - 158: 10% pyrite / 8% magnetite / 5% hematite / 1% chalcopyrite>>					134.00	136.00	N253015	0.1	0.295	1761.2	96.3
<<Min: 158 - 170: 10% pyrite / 4% magnetite / 2% hematite / 1% chalcopyrite>>					134.00	136.00	N253016	0.1	0.296	1723.1	112.4
<<Struc: 129.4 - 129.45: weak Contact 90 deg. >> Contact with BVv gradational					136.00	138.00	N253017	-0.05	0.258	1437.3	30.7
<<Struc: 143.24 - 143.3: moderate to strong Fracture 60 deg. >>					138.00	140.00	N253018	0.1	0.281	1895.2	71.1
<<Struc: 144.78 - 146.3: moderate Fault Zone 60 deg. >>					140.00	142.00	N253019	0.2	0.253	2229.5	41.8
<<Struc: 148.8 - 148.85: moderate Fracture 34 deg. >>					142.00	144.00	N253021	0.2	0.236	2449.4	63.7
<<Struc: 149.2 - 149.35: strong Gouge 35 deg. >>					144.00	146.00	N253022	0.5	0.267	2490.6	33.6
<<Struc: 150.9 - 150.95: strong Gouge 21 deg. >>					146.00	148.00	N253023	0.2	0.339	2059.6	30.5
<<Struc: 153.9 - 153.95: strong Gouge 45 deg. >>					148.00	150.00	N253024	0.2	0.343	2379.7	44.4
<<Struc: 155.4 - 157.3: moderate Fault Zone 29 deg. >>					150.00	152.00	N253025	0.2	0.378	2357.6	37.9
					152.00	154.00	N253026	0.2	0.681	2792.7	37.7
					154.00	156.00	N253027	0.2	0.446	2442.8	26
					156.00	158.00	N253028	0.2	0.295	2871	172
					158.00	160.00	N253029	0.2	0.586	2927.2	20.4

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
160.00	**188.70**	**RoPr** **Rose Porphyry: Quartz feldspar porphyry. Differs from RDP in distict rose colour caused by hematization of feldspars.**	**grey**	**MCG**	160.00	162.00	N253030	0.2	0.54	2578	19
160 - 188.7: Pinkish grey colour caused by hematization of feldspar phenocryst. Large phenocrysts of feldspar and quartz a felsic ground mass. Rock is strongly altered and mineralized with pyrite and magnetite.											
<<Min: 170 - 188.7: 10% pyrite / 2% magnetite / 3% hematite / 1% chalcopyrite>>					162.00	164.00	N253031	0.2	0.466	2657.5	21.8
<<Struc: 164 - 164.05: moderate to strong Gouge 25 deg. >>					164.00	166.00	N253032	0.1	0.243	1238.5	15.7
<<Struc: 175.26 - 175.56: moderate Shear zone 20 deg. >>					166.00	168.00	N253033	-0.05	0.195	1232.3	15.7
<<Struc: 176.5 - 177.8: moderate Fault Zone 45 deg. >> Crushed zone of rock					168.00	170.00	N253035	0.1	0.328	1104.9	19.3
<<Struc: 182.2 - 182.58: moderate Fault Zone 30 deg. >>					170.00	172.00	N253036	-0.05	0.268	1561.7	37.5
<<Struc: 187.6 - 188.3: strong Fault Zone 35 deg. >> Sections of gouge					172.00	174.00	N253037	-0.05	0.238	1616.8	44.2
<<Struc: 188.3 - 188.31: intense Contact 40 deg. >> Contact with RDP.					174.00	176.00	N253038	0.2	0.425	1257.9	64.2
					174.00	176.00	N253039	0.1	0.315	1410	98.2
					176.00	178.00	N253040	0.1	0.392	2266.5	29
					178.00	180.00	N253041	0.2	0.377	1848.8	51.4
					180.00	182.00	N253042	0.2	0.221	1693	57.1
					182.00	184.00	N253044	0.3	0.375	3100.5	48.1
					184.00	186.00	N253045	0.1	0.186	2309.1	33.4
					186.00	188.00	N253046	0.4	0.158	1342.8	71.9
					188.00	190.00	N253047	-0.05	0.096	114.1	3.6
188.70	**192.90**	**RDP** **Red Dog Porphyry: Crowded porphyritic textured tonnalite.**	**leucocratic**	**MG**	190.00	192.00	N253048	-0.05	0.069	48.4	1.4
188.7 - 192.9: As above											
<<Min: 188.7 - 192.9: 0.2% pyrite>>					192.00	194.00	N253049	0.2	0.124	895.1	18.8
<<Vein: 188.7 - 192.9: Calcium carbonate/Carbonate>>											
192.90	**201.17**	**RoPr** **Rose Porphyry: Quartz feldspar porphyry. Differs from RDP in distict rose colour caused by hematization of feldspars.**	**grey**	**MCG**	194.00	196.00	N253050	0.3	0.228	1691.9	23.6
192.9 - 201.17: As above											

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-01**

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Min: 192.9 - 201.17: 10% pyrite / 0.3% magnetite / 2% hematite / 1% chalcopyrite>>	196.00	198.00	N253051	0.2	0.29	2620.1	38.3
		<<Vein: 192.9 - 201.17: 10% Quartz / 2% Calcium carbonate/Carbonate>> Quartz is salmon pink coloured due to hematization. Also contains very fine grained pyrite and chalcopyrite. Veins can be up to 8cm thick. Identical to section above. The transition from breccia to stockwork is gradational.	198.00	200.00	N253052	0.2	0.278	1595.1	29.3
		<<Struc: 192.9 - 192.91: intense Contact 40 deg. >> Contact with chilled margin in RDP	200.00	201.00	N253053	0.1	0.208	774.5	37.5
		<<Struc: 195.5 - 195.51: strong Gouge 20 deg. >>							

End of Hole @ 201.17

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GeoSpark Logger ~ Drill Log

Project: Red Dog **Hole Number:** RD16-02

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	14/07/2016
Easting:	572269.32	Azimuth:	180	Date Completed:	19/07/2016
Northing:	5617979.12	Dip:	-71	Drill Company:	Kluane
Elevation (m):	463.1	Length (m):	155.45	Drill Rig:	
Hole Type:	DD			Drill Started:	09/07/2016
Hole Diameter:				Drill Completed:	16/09/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
19.81	-70.4	161.3	17.25	178.55	ReflexEZS	Unknown	14/07/2016	5774	☑	\magnetic wall rock. Reading suspect
40	-70.9	169.1	17.25	186.35	ReflexEZS	Unknown	14/07/2016	5127	☐	Reading suspect
80.77	-70.6	154.2	17.25	171.45	ReflexEZS	Unknown	14/07/2016	6003	☐	Reading suspect.
100.58	-70.2	153.6	17.25	170.85	ReflexEZS	Unknown	14/07/2016	5453	☐	Reading suspect due to magnetic wall rock
120	-70.1	163.4	17.25	180.65	ReflexEZS	Unknown	16/07/2016	5439	☑	Reading suspect.
155.45	-69.8	160.6	17.25	177.85	ReflexEZS	Unknown	16/07/2016	5708	☑	Measurement in highly magnetic unit. Reading suspect

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
0.00	**7.20**	**CASE** **Drill casing/overburden**							
0 - 7.2: Overburden contains pebbles of magnetite breccia, andesite replaced by magnetite and fragments of quartz vein material.									
<<Min: 0 - 7.3: >> overburden, no minerallization									
7.20	**14.00**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **melanocratic** **FG**	8.00	10.00	N253054	0.5	0.87	4854.1	82.9
7.2 - 14: Limonite on fracture surfaces									

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Min: 7.3 - 20: 3% pyrite / 15% magnetite / 5% hematite / 1% chalcopyrite>>	10.00	12.00	N253055	2	1.202	10000	73.8
		<<Alt: 7.3 - 73.5: strong Chlorite-Magnetite (+/- Si) / weak Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>> Chlorite magnetite and sericite alteration pervasive through out section. Early magnetite is replace partially by hematite. CMG is over printing an earlier alteration either potassic or albitic hornfels. Silicification in the form of matrix replacement and veining appears closely related to copper mineralization and early pyrite deposition. Later pyrite is associated with the sericite - pyrite alteration that over prints the CMG alteration.	12.00	14.00	N253056	0.7	1.048	6234.3	164.6
		<<Vein: 7.3 - 12.5: 2% Pyrite / 2% Calcium carbonate/Carbonate>>							
		<<Vein: 12.5 - 50: 10% Quartz / 2% Pyrite / 2% Calcium carbonate/Carbonate>> Quartz veins have pale rose colour from very finely disseminated hematite. Pyrite is a later mineralization event replacing earlier magnetite and hematite. Carbonate - zeolite veining post dates all earlier veining.							
		<<Struc: 9 - 9.7: moderate to strong Fault Zone 45 deg. >> Rubble zone.							
		<<Struc: 9.7 - 10.2: No Structures >>							
		<<Struc: 10.2 - 13: moderate to strong Fault Zone 45 deg. >> Rubble							
		<<Struc: 13 - 18.29: No Structures >>							
14.00	**18.00**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **melanocratic** **FG**	14.00	16.00	N253057	0.6	1.044	7362	127.1
		14 - 18: Consists of dark green grey BVv fragments replaced by magnetite in a matrix of pinkish grey fg quartz. Some later brecciation as fragments of quartz veins present locally. Appears to be transitional between QMP and BVv with quartz vein stockwork. Local BVv with stockwork at 44 to 48 m							
			16.00	18.00	N253059	0.5	0.716	5996.2	99.4
18.00	**18.30**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **melanocratic** **FG**	18.00	20.00	N253060	0.7	0.841	4257.8	82
		18 - 18.3: Limonitic fractures in fracture zone in QMP							
		<<Struc: 18.29 - 18.39: intense Gouge 70 deg. >>							

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
18.30	**20.00**	**QMP Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining. melanocratic FG**							
18.3 - 20: Limonite on fracture surfaces									
<<Struc: 18.39 - 19.81: No Structures >>									
<<Struc: 19.81 - 20.34: moderate to strong Local Gouge 46 deg. >> gouge and broken rock									
20.00	**138.00**	**QMP Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining. melanocratic FG**	20.00	22.00	N253061	0.9	0.86	4239.7	88.9
20 - 138: As above becoming transitional to a quartz vein stockwork in BVv by the end of the section.									
<<Min: 20 - 50: 4% pyrite / 13% magnetite / 5% hematite / 1% chalcopyrite>> Chalcopyrite early and associated closel with hematite replacement of magnetite. \pyrite later replacement of magnetite and hematite.			22.00	24.00	N253062	0.9	0.862	4912.7	159.8
<<Min: 50 - 71: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>			24.00	26.00	N253063	0.8	0.948	5911.2	79.1
<<Min: 71 - 118.5: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>> Increasing py at expense of magnetite			26.00	28.00	N253064	0.6	0.579	4170.7	157.4
<<Min: 118.5 - 119: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>> Pyrite alteration accompanied by sericite alteration			28.00	30.00	N253065	0.7	0.53	3578.3	76.6
<<Min: 119 - 125: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>			30.00	32.00	N253066	0.8	0.724	4043.3	42.4
<<Min: 125 - 127: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>>			30.00	32.00	N253067	0.7	0.705	3907	39.7
<<Min: 127 - 128.5: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>			32.00	34.00	N253068	1.1	0.613	4796.2	67.7
<<Min: 128.5 - 129: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>>			34.00	36.00	N253069	0.7	0.592	3954.3	96.9
<<Min: 129 - 138: 10% chalcopyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>> Sericite alteration associated with increased pyrite replacement of earler iron oxide species.			36.00	38.00	N253070	0.6	0.552	4661.1	53.1
<<Alt: 73.5 - 79: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>> Section where sericite - pyrite over prints CMG along fractures.			38.00	40.00	N253071	0.6	0.527	4494.7	119.4
<<Alt: 79 - 98.2: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>			40.00	42.00	N253073	0.4	0.378	2566.9	94.5
<<Alt: 98.2 - 99: moderate to strong Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>			42.00	44.00	N253074	0.9	0.448	5805.5	82.8

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GeoSpark Logger ~ Drill Log

Project: Red Dog **Hole Number:** RD16-02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Alt: 99 - 118.5: strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>	44.00	46.00	N253075	0.9	0.543	3693.4	90.2
		<<Alt: 118.5 - 119.3: moderate Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>	46.00	48.00	N253076	0.7	0.772	4237.2	79.5
		<<Alt: 119.3 - 124.8: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>	48.00	50.00	N253077	0.4	0.514	2950.6	120.4
		<<Alt: 124.8 - 126.7: moderate Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>	50.00	52.00	N253078	0.5	0.507	2830	66.2
		<<Alt: 126.7 - 128.6: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>	52.00	54.00	N253079	0.5	0.647	3331.4	45.7
		<<Alt: 128.6 - 129.1: weak to moderate Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>	54.00	56.00	N253080	0.5	0.381	3054.5	30
		<<Alt: 129.1 - 138: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>	56.00	58.00	N253082	0.4	0.375	2309.6	28
		<<Vein: 50 - 155.45: 20% Quartz / 3% Pyrite / 2% Calcium carbonate/Carbonate>>	58.00	60.00	N253083	1	0.753	3711.7	28.4
		<<Struc: 20.34 - 23: No Structures >>	60.00	62.00	N253084	0.6	0.693	3827.2	49.1
		<<Struc: 23 - 23.05: strong Slicks 50 deg. >> Pyrite slickenside	62.00	64.00	N253085	0.7	0.776	4185.4	24.7
		<<Struc: 23.05 - 25.9: No Structures >> Fracture zone	64.00	66.00	N253086	0.4	0.542	2792.1	37
		<<Struc: 25.9 - 26.4: moderate Fracture 70 deg. >>	66.00	68.00	N253087	0.6	0.875	3827.7	34.1
		<<Struc: 26.4 - 27: No Structures >>	68.00	70.00	N253088	0.5	0.568	2997.7	43.5
		<<Struc: 27 - 27.05: intense Slicks 15 deg. >>	68.00	70.00	N253089	0.5	0.67	3402.7	54.1
		<<Struc: 27.05 - 31.1: No Structures >>	70.00	72.00	N253090	0.9	0.96	4012.8	39.9
		<<Struc: 31.1 - 31.15: strong Slicks 15 deg. >>	72.00	74.00	N253091	0.2	0.452	2603.2	37.1
		<<Struc: 31.15 - 33.1: No Structures >>	74.00	76.00	N253092	0.4	0.418	2169.7	23.1
		<<Struc: 33.1 - 33.14: strong Gouge 60 deg. >>	76.00	78.00	N253094	0.5	0.641	3082.1	39.5
		<<Struc: 33.14 - 33.5: No Structures >>	78.00	80.00	N253095	0.8	0.402	2835.4	18.5
		<<Struc: 33.5 - 33.9: moderate to strong Fault Zone 60 deg. >> Fracture / fault zone	80.00	82.00	N253096	1.6	0.488	3218.5	20.6
		<<Struc: 33.9 - 36.5: No Structures >>	82.00	84.00	N253097	0.7	0.384	2726.7	20.5
		<<Struc: 36.5 - 38.1: moderate to strong Fault Zone 50 deg. >> Local gouge zones	84.00	86.00	N253098	0.9	0.61	3809.9	19
		<<Struc: 38.1 - 41.15: No Structures >>	86.00	88.00	N253099	0.9	0.523	3563.4	31.5
		<<Struc: 41.15 - 41.35: moderate to strong Fault Zone 65 deg. >>	88.00	90.00	N253100	0.2	0.161	874.2	38.7
		<<Struc: 41.35 - 43: No Structures >>	90.00	92.00	N253101	0.2	0.263	2058.5	40.2
		<<Struc: 43 - 43.3: strong Gouge 70 deg. >>	92.00	94.00	N253103	0.4	0.347	2765.2	16.1
		<<Struc: 43.3 - 43.9: No Structures >>	94.00	96.00	N253104	0.3	0.301	2735.2	24.3
		<<Struc: 43.9 - 43.95: strong Gouge 70 deg. >>	96.00	98.00	N253105	0.5	0.593	3426.3	26.4
		<<Struc: 43.95 - 44: No Structures >>	98.00	100.00	N253106	0.4	0.526	3206.3	17.9

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
<<Struc: 44 - 48.8: No Structures >>					100.00	102.00	N253107	0.4	0.531	5046.1	42.9
<<Struc: 48.8 - 49.1: moderate Fracture 45 deg. >> Broken rock					102.00	104.00	N253108	0.6	0.407	2811.2	26.7
<<Struc: 49.1 - 65.18: No Structures >>					104.00	106.00	N253109	0.5	0.35	2707.5	24.2
<<Struc: 65.18 - 65.38: strong Gouge 10 deg. >>					104.00	106.00	N253110	0.4	0.378	2557.9	30.3
<<Struc: 65.38 - 70: No Structures >>					106.00	108.00	N253111	0.8	0.519	2945.6	23.8
<<Struc: 70 - 70.2: strong Gouge 80 deg. >>					108.00	110.00	N253112	0.8	0.422	2556.4	41.7
<<Struc: 70.2 - 74.5: No Structures >>					110.00	112.00	N253113	0.7	0.435	3232.8	27.9
<<Struc: 74.5 - 74.55: strong Gouge 35 deg. >>					112.00	114.00	N253114	0.5	0.317	3172.7	18
<<Struc: 74.55 - 76: No Structures >>					114.00	116.00	N253115	0.6	0.371	3536.6	21.9
<<Struc: 76 - 76.15: strong Gouge 25 deg. >>					116.00	118.00	N253116	0.6	0.399	4288.1	62.3
<<Struc: 76.15 - 86.7: No Structures >>					118.00	120.00	N253118	1.1	0.504	5336.5	18.7
<<Struc: 86.7 - 86.9: moderate to strong Local Gouge 50 deg. >>					120.00	122.00	N253119	1	0.49	3922	27.2
<<Struc: 86.9 - 88.3: No Structures >>					122.00	124.00	N253120	0.5	0.226	2835.9	28.2
<<Struc: 88.3 - 90: moderate to strong Local Gouge 60 deg. >>					124.00	126.00	N253121	0.5	0.382	3303.5	22.5
<<Struc: 92.2 - 92.35: strong Gouge 75 deg. >>					126.00	128.00	N253122	0.4	0.348	3506.5	23.6
<<Struc: 92.35 - 119.1: No Structures >>					128.00	130.00	N253124	0.3	0.275	2108.1	28.5
<<Struc: 119.1 - 119.2: moderate to strong Slicks 10 deg. >>					130.00	132.00	N253125	0.6	0.278	1889.3	24.7
<<Struc: 119.2 - 121: No Structures >>					132.00	134.00	N253126	0.5	0.383	1912.6	26.3
<<Struc: 121 - 121.05: moderate to strong Slicks 50 deg. >>					134.00	136.00	N253127	0.4	0.376	2178.3	25.5
<<Struc: 121.05 - 127: No Structures >>					136.00	138.00	N253128	0.2	0.37	2156.2	23.8
<<Struc: 127 - 128.7: No Structures >>											
<<Struc: 128.7 - 129.5: moderate to strong Fault Zone 80 deg. >>											
<<Struc: 129.5 - 140: No Structures >>											
138.00	**146.80**	**QMP**	**Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	**melanocratic** **FG**	138.00	140.00	N253129	0.3	0.294	2783.1	26.3
138 - 146.8: Transitional to quartz vein stockwork in BVv											
<<Min: 138 - 141: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>>					138.00	140.00	N253130	0.2	0.308	2470.1	28.6
<<Min: 141 - 145: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>					140.00	142.00	N253131	0.2	0.268	1843.8	27.1
<<Min: 145 - 146.3: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>>					142.00	144.00	N253132	0.4	0.367	3087.9	26.1
<<Min: 146.3 - 147.9: 6% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>					144.00	146.00	N253133	0.3	0.313	2426	20.4

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Alt: 138 - 141.5: moderate to strong Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / moderate to strong Hematit (Propylitic?)>>	146.00	148.00	N253134	0.4	0.649	1801.1	20.5
		<<Alt: 141.5 - 144: strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>							
		<<Alt: 144 - 146.5: moderate Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>							
		<<Alt: 146.5 - 147.9: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py / moderate to strong Hematite (Propylitic?)>>							
		<<Struc: 140 - 140.15: strong Gouge 75 deg. >>							
		<<Struc: 140.15 - 143: No Structures >>							
		<<Struc: 143 - 143.15: moderate to strong Fault Zone 62 deg. >>							
		<<Struc: 143.15 - 146.8: No Structures >>							
146.80	**155.45**	**QMP Quartz Magnetite Breccia: melanocratic FMG Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	148.00	150.00	N253135	0.2	0.363	2085.9	40.8
		146.8 - 155.45: Increasing sections with sericite-pyrite overprint from 144 m. Strongest in areas of more intense fracturing.							
		<<Min: 147.9 - 155.45: 10% pyrite / 5% magnetite / 2% hematite / 1% chalcopyrite>> Pyrite and sericite increase in faulted zone at end of the hole. In general, the sections of higher pyrite and sericite are localized in fracture and fault zone It may be that the fracture and fault zone are localized in the more sericitically altered rock.	150.00	152.00	N253137	-0.05	0.119	1706.3	16.6
		<<Alt: 147.9 - 155.45: weak to moderate Chlorite-Magnetite (+/- Si) / moderate Silica-Clay-Py / weak to moderate Hematite (Propylitic?)>>	152.00	154.00	N253138	-0.05	0.129	1319.2	17.3
		<<Struc: 146.8 - 155.45: strong Local Gouge 50 deg. >> Fault zone with alternating crushed rock and gouge. Average dip 50 degrees with some as steep as 10 degrees.	154.00	155.45	N253139	-0.05	0.071	1565.4	9.9

End of Hole @ 155.45

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-03**

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	19/07/2016
Easting:	572306.77	Azimuth:	177	Date Completed:	22/07/2016
Northing:	5617978.7	Dip:	-45	Drill Company:	Kluane
Elevation (m):	464.03	Length (m):	120.4	Drill Rig:	
Hole Type:	DD			Drill Started:	17/07/2016
Hole Diameter:				Drill Completed:	19/09/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-44.8	159.2	17.25	176.45	ReflexEZS	Unknown	19/07/2016	5589	☑	Reading suspect
40	-44.8	166.1	17.25	183.35	ReflexEZS	Unknown	19/07/2016	5670	☐	Reading suspect
60	-45.1	159.2	17.25	176.45	ReflexEZS	Unknown	19/07/2016	5396	☑	
80	-45	151.6	17.25	168.85	ReflexEZS	Unknown	19/07/2016	5737	☐	Reading suspect
100	-44.9	157.6	17.25	174.85	ReflexEZS	Unknown	19/07/2016	5490	☑	Reading suspect
120	-45	163.7	17.25	180.95	ReflexEZS	Unknown	19/07/2016	5442	☐	Reading suspect

From (m)	To (m)		Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
0.00	**1.22**	**CASE**	**Drill casing/overburden**							
1.22	**5.10**	**BVv**	**Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	1.22	2.00	N253140	0.8	0.421	3636.6	64.3
1.22 - 5.1: Andesite tuff-breccia with later brecciation. Some fragsments of rose porphyry.										
<<Min: 1.22 - 11: 2% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>> Early alteration is magnetite replacement and veins of magnetite replaced partially by hematite. Chalcopyrite form disseminated grains and impregnations replacing both magnetite and hematite. \pyrite is later and occurs primarily in veins and as disseminations adjacent to the veins associated with sericitic alteration.				2.00	4.00	N253141	1.4	1.232	4936.9	86.7
<<Alt: 1.22 - 15: strong Chlorite-Magnetite (+/- Si) / weak Silica-Clay-Py>> Dominant chlorite - magnetite alteration of primary rock. Magnetite both as massive replacement and in veins and veinlets. Sericite - pyrite overprints the CMG in areas of fracturing and faulting.				4.00	6.00	N253142	1.1	1.169	4558.6	136.7

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Vein: 1.22 - 15: 5% Quartz / 2% Pyrite>> Weak to moderately intense stockwork of early rose coloured quartz veins from centimetre to 10cm thick. Post mineralization faulting has brecciated the veining.							
		<<Struc: 1.22 - 2: moderate Fault Zone>> Rubble of angular rotated clasts. No obvious dip direction on structures.							
5.10	**6.00**	**BVv Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**							
		5.1 - 6: Broken rubbly zone with more limonite and geothite than previous section.							
6.00	**10.30**	**BVv Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	6.00	8.00	N253143	1.4	0.543	4583.3	85.1
		<<Struc: 6.1 - 6.5: moderate Fracture 30 deg. >> Rubble zone.	8.00	10.00	N253144	1	0.834	6015.6	95.7
			10.00	12.00	N253145	0.6	0.598	3245.8	57.6
10.30	**15.00**	**BVv Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	12.00	14.00	N253147	0.8	0.555	2930	66.7
		<<Min: 11 - 15: 0.1% pyrite / 10% magnetite / 5% hematite / 0.05% chalcopyrite / 2% goethite>> Sulphides nearly completely oxidized.	14.00	16.00	N253148	1.5	0.836	2264	95.3
		<<Struc: 10.3 - 15: moderate to strong Fault Zone 60 deg. >>							
15.00	**24.38**	**RDP Red Dog Porphyry: Crowded porphyritic textured tonnalite. leucocratic FMG**	16.00	18.00	N253149	0.1	0.036	716.5	11
		15 - 24.38: Light grey green coloured hornblende feldspar porphyry. Feldspars form tabular phenocrysts with lesser, finer grained hornblende. Weak to moderate propylitic alteration and minor disseminated pyrite and lesser dry fractures filled wi pyrite. Rock previously described as HFPr, but is part of the Red Dog Intrusive suite.							
		<<Min: 15 - 24.38: 1% pyrite / 2% magnetite / 0% hematite / 0% chalcopyrite / 0.5% goethite>> pyrite and magnetite ar replacing primary mafic minerals where not in veins.	18.00	20.00	N253150	0.2	0.042	419	22.5
		<<Alt: 15 - 24.38: weak to moderate Propylitic>> Weak propylitic alteration, minor epidote, weak chloritization of mafics and minor disseminated pyrite.	20.00	22.00	N253151	3.8	0.051	924.9	20.2
		<<Vein: 15 - 24.38: / 1% Pyrite>>	22.00	24.00	N253152	0.4	0.034	1054.3	16.7
		<<Struc: 15 - 15.01: intense Contact 70 deg. >> Contact is zone of broken an fractured rock. Chilled margin in the dyke	24.00	26.00	N253154	0.6	0.525	3769.8	76.1
24.38	**41.80**	**BVv Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	26.00	28.00	N253155	0.5	0.367	2722.6	55.5
		24.38 - 41.8: As above.							

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Min: 24.38 - 48: 3% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite / 0.05% goethite>> Geothite rare and confined to fracture surfaces except from 42 to 44.5m where there is fault zone. Malachite noted on fracture at 34.5m	28.00	30.00	N253156	0.5	0.733	3154.8	78.4
		<<Alt: 24.38 - 65.2: moderate to strong Chlorite-Magnetite (+/- Si) / weak Silica-Clay-Py>> SCP alteration variable and localized along fractures.	30.00	32.00	N253157	0.4	0.681	2960.1	76.2
		<<Vein: 24.38 - 120.4: 10% Quartz / 2% Pyrite>> Quartz veining as above. Pyrite late stringers with associated sericitic alteration of wall rock and pyrite replacement of magnetite and hematitie.General increase of pyrite with depth at the expense of magnetite and hematite.	32.00	34.00	N253158	0.6	0.664	3987.2	74.6
		<<Struc: 24.38 - 24.5: intense Contact 70 deg. >> Sharp contact with chilled margin in the dyke.	34.00	36.00	N253159	0.5	0.58	3222.4	67.5
		<<Struc: 27.43 - 27.63: strong Gouge 45 deg. >>	36.00	38.00	N253160	0.9	0.543	3229.6	61.9
		<<Struc: 32.33 - 32.73: moderate Brittle Fracture>>	38.00	40.00	N253161	0.6	0.476	2493.8	98.1
		<<Struc: 37.8 - 38.1: strong Gouge 58 deg. >>	38.00	40.00	N253162	0.6	0.549	2653.9	69.6
		<<Struc: 38.55 - 38.6: strong Gouge 90 deg. >>	40.00	42.00	N253163	0.4	0.74	3067.6	92.9
41.80	**44.35**	**BVv** **Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	42.00	44.00	N253164	0.5	0.716	2804.2	56.3
		41.8 - 44.35: Tuff-breccia as above.							
		<<Struc: 41.8 - 44.35: moderate to strong Fault Zone 60 deg. >>	44.00	46.00	N253165	0.4	0.614	2651.6	47.1
44.35	**60.00**	**BVv** **Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	46.00	48.00	N253166	0.5	0.703	3889.6	66
		44.35 - 60: As above, becoming increasingly broken and faulted with depth.							
		<<Min: 48 - 49.5: 5% pyrite / 8% magnetite / 4% hematite / 1% chalcopyrite>>	48.00	50.00	N253167	0.7	0.79	4265.4	64.6
		<<Min: 49.5 - 60: 5% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>	50.00	52.00	N253168	0.4	0.478	3546.8	92.2
		<<Struc: 48.75 - 49.5: moderate Fault Zone 60 deg. >>	52.00	54.00	N253169	0.5	0.471	4298.2	68
		<<Struc: 50.8 - 52: moderate to strong Local Gouge 75 deg. >>	54.00	56.00	N253170	0.3	0.449	2179.4	77.5
		<<Struc: 53.2 - 53.5: moderate to strong Local Gouge 55 deg. >>	56.00	58.00	N253171	0.4	0.535	2692.5	27.6
		<<Struc: 55.5 - 56: moderate to strong Local Gouge 65 deg. >>	58.00	60.00	N253172	0.4	0.504	2557.1	36
		<<Struc: 59 - 62: moderate to strong Fault Zone 50 deg. >>							
60.00	**91.00**	**BVv** **Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	60.00	62.00	N253174	0.7	0.444	3193.3	134.8
		60 - 91: Limonite and geothite on fractures in broken and fault zones.							
		<<Min: 60 - 60.96: 3% pyrite / 5% magnetite / 3% hematite / 0.05% chalcopyrite / 2% goethite>> Geothite along fractures in well fracture section of the core.	62.00	64.00	N253175	0.8	0.68	3348.1	69.7

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Min: 60.96 - 66: 5% pyrite / 5% magnetite / 3% hematite / 1% chalcopyrite / 0.2% goethite>>	64.00	66.00	N253176	0.5	0.362	2402.2	64.9
		<<Min: 66 - 68.7: 3% pyrite / 5% magnetite / 3% hematite / 0.1% chalcopyrite / 2% goethite>> Geothite along late fractures in fault zone.	66.00	68.00	N253177	0.4	0.542	2499	24.2
		<<Min: 68.7 - 75: 2% pyrite / 5% magnetite / 3% hematite / 0.1% chalcopyrite / 0.3% goethite>>	68.00	70.00	N253179	0.4	0.451	2480.6	32.3
		<<Min: 75 - 75.5: 2% pyrite / 5% magnetite / 3% hematite / 0.1% chalcopyrite>>	70.00	72.00	N253180	0.3	0.256	1286.7	20
		<<Min: 75.5 - 81: 5% pyrite / 5% magnetite / 3% hematite / 1% chalcopyrite / 0.05% goethite>>	72.00	74.00	N253181	0.3	0.3	2951	61
		<<Min: 81 - 83.2: 2% pyrite / 5% magnetite / 3% hematite / 0.1% chalcopyrite / 2% goethite>> Fault zone with geothite along fractures.	72.00	74.00	N253182	0.3	0.363	2576.4	54.5
		<<Min: 83.2 - 91: 3% pyrite / 5% magnetite / 2% hematite / 0.1% chalcopyrite / 0.3% goethite>> Last appearance of geothite is at 91m.	74.00	76.00	N253183	0.3	0.495	1939.4	30.3
		<<Alt: 65.2 - 66.5: weak to moderate Chlorite-Magnetite (+/- Si) / moderate to strong Silica-Clay-Py>> Localized in well fractured rock and gouge.	76.00	78.00	N253184	0.3	0.446	2588.9	40.1
		<<Alt: 66.5 - 120.4: moderate to strong Chlorite-Magnetite (+/- Si) / weak Silica-Clay-Py>> As above.	78.00	80.00	N253185	0.4	0.232	1194.2	57.9
		<<Struc: 62 - 69: strong Fault Zone 70 deg. >> Fault zone with sections of gouge.	80.00	82.00	N253186	0.5	0.409	2368.2	51.2
		<<Struc: 71.5 - 79: strong Fault Zone 40-55 deg. >>	82.00	84.00	N253187	0.4	0.321	2451.9	42.4
		<<Struc: 82 - 83.5: intense Gouge 20 deg. >>	84.00	86.00	N253188	0.3	0.301	2325.4	18.9
		<<Struc: 88.8 - 100.58: intense Fault Zone 15 deg. >> Rubble and gouge.	86.00	88.00	N253189	0.4	0.332	2183.2	20.8
			88.00	90.00	N253190	0.4	0.395	3109.5	23.8
			90.00	92.00	N253191	0.3	0.268	2931.4	32.5
91.00	**109.73**	**BVv** **Bonanza Volcanic Undivided: green Includes andesitic flows, breccia and tuffs**	92.00	94.00	N253192	0.4	0.195	1518.3	17.5
		91 - 109.73: Fault zone from 88.8 m to 100.58 there after competent rock							
		<<Min: 91 - 120.4: 8% pyrite / 5% magnetite / 0.5% hematite / 0.1% chalcopyrite>>	94.00	96.00	N253193	0.2	0.208	2222.1	20.8
		<<Struc: 100.58 - 106.68: strong Fault Zone 55 deg. >> Less intense than above.	96.00	98.00	N253194	0.2	0.212	2052.8	25.7
			98.00	100.00	N253195	0.2	0.174	1297.3	20.7
			100.00	102.00	N253196	0.3	0.287	3394.3	9
			102.00	104.00	N253197	0.3	0.488	2479.3	12.9
			104.00	106.00	N253198	0.3	0.346	1525.3	8.4
			106.00	108.00	N253199	0.2	0.178	791.1	10.3
			108.00	110.00	N253201	0.3	0.314	951.1	10.8

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
109.73	**110.90**	**Ba** **Basalt: Forms narrow dykes of very fine grained to fine porphyritic texture. Very late intrusive unit. Generally less than 3 metre thick.**	**melanocratic**	**FG**	110.00	112.00	N253202	0.3	0.165	1127.7	7.7
109.73 - 110.9: Dark grey green, fine grained porphyritic with laths of feldspar forming less than 20% of the rock. Chilled margin at lower contact. Upper contact chilled. Fresh except for minor pyrite disseminated near contacts.											
<<Struc: 109.73 - 109.75: intense Contact 45 deg. / intense Gouge>> Upper contact is fault											
110.90	**120.40**	**BVv** **Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs**	**green**	**FG**	112.00	114.00	N253203	0.2	0.133	1843	15.9
110.9 - 120.4: As above section.											
<<Struc: 110.9 - 110.93: intense Contact 45 deg. >> Chilled contact					114.00	116.00	N253205	0.2	0.36	1235.5	10.9
					116.00	118.00	N253206	0.1	0.129	768.1	11.7
					118.00	120.40	N253207	-0.05	0.152	1548.7	11.4
					118.00	120.40	N253208	-0.05	0.15	1358.4	8

End of Hole @ 120.4

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GeoSpark Logger ~ Drill Log

Project: Red Dog **Hole Number:** RD16-04

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	20/07/2016
Easting:	5617717.64	Azimuth:	180	Date Completed:	27/07/2016
Northing:	572604.55	Dip:	-90	Drill Company:	Kluane
Elevation (m):	372.79	Length (m):	150.88	Drill Rig:	
Hole Type:	DD			Drill Started:	19/07/2016
Hole Diameter:				Drill Completed:	24/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

From (m)	To (m)	Rocktype & Description
0.00	**4.27**	**CASE Drill casing/overburden**
		0 - 4.27: Overburden composed of blocks of CMG altered BVv and wood fragments from road fill.
4.27	**49.50**	**FP Feldspar Porphyry buff FMG**
		4.27 - 49.5: White coloured feldspar porphyry consisting of broken to tabular feldspar phenocrysts in a felted matrix of very fine grained feldspar and quartz. Jarositic to limonitic capping due to intense weathering. Strong SCP with Argillic alteration overprinting makes original provinance of the rock difficult to determine. No noticeable quartz eyes.
		<<Min: 4.27 - 11.5: / 3% jarosite>> Strongly leached with abundant yellow limonite, mainly jarosite.
		<<Min: 11.5 - 49.5: 0.5% pyrite / 3% jarosite>> Pyrite starrts as trace increasing at depth at the expense of jarosite.
		<<Alt: 4.27 - 49.5: strong Silica-Clay-Py / strong Leached (Prev. SCZ) / strong Argillic (fault related)>> Primary alteratic is SCP. This is overprinted by leach capping and associated argillic (kaolinite) alteration. All sulphides are 100 to 70% leached in this section.
		<<Vein: 4.27 - 65.5: 10% Quartz / 0.3% Pyrite / 5% Haematite/Iron oxide / 2% Calcium carbonate/Carbonate>> Quartz stock work well developed. Primary pyrite leached with jarosite and geothite pseudomorphs. Traces of pyrite towards end of this interval.
		<<Struc: 4.27 - 4.57: moderate to strong Gouge 35 deg. >>
		<<Struc: 6.38 - 7.2: moderate to strong Fault Zone 27 deg. >>
		<<Struc: 9 - 10.9: moderate Fault Zone 20 deg. >>
		<<Struc: 17.9 - 19.7: moderate Fault Zone 10 deg. >>
		<<Struc: 20.1 - 22.3: moderate to strong Fault Zone 15 deg. >>

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
4.00	6.00	N253209	0.2	0.209	206.7	27.9
6.00	8.00	N253210	0.4	0.197	156.9	24.7
8.00	10.00	N253211	0.4	0.395	306.1	27.2
10.00	12.00	N253212	0.5	0.699	503.5	22.1
12.00	14.00	N253213	0.3	0.353	362.7	23.1
14.00	16.00	N253214	0.4	0.238	180.7	20.9
16.00	18.00	N253215	0.2	0.371	264.8	13.7
18.00	20.00	N253217	0.3	0.641	403.5	15.4
20.00	22.00	N253218	0.1	0.341	100.1	16.8
22.00	24.00	N253219	0.4	0.343	285.3	19.8
24.00	26.00	N253221	0.1	0.153	51.1	13.3

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
<<Struc: 23.2 - 23.5: strong Gouge 20 deg. >>			26.00	28.00	N253222	0.1	0.296	87	10.7
<<Struc: 28.15 - 28.2: moderate to strong Gouge 25 deg. >>			28.00	30.00	N253223	0.2	0.261	159.9	12.3
<<Struc: 28.96 - 29: strong Gouge 23 deg. >>			30.00	32.00	N253224	-0.05	0.279	115.8	7.6
<<Struc: 33.5 - 33.7: moderate Brittle Fracture 30 deg. >>			32.00	34.00	N253225	0.2	0.365	212.7	7
<<Struc: 37 - 37.1: strong Gouge 10 deg. >>			34.00	36.00	N253226	0.2	0.265	206.3	6.4
<<Struc: 38 - 42.5: strong Fault Zone 35 deg. >>			36.00	38.00	N253227	0.3	0.194	239.6	5.8
			38.00	40.00	N253228	0.1	0.176	163.3	8.6
			38.00	40.00	N253229	0.1	0.196	161.3	8.2
			40.00	42.00	N253230	1.3	0.094	82.3	26.5
			42.00	44.00	N253231	0.2	0.159	168.5	39.6
			44.00	46.00	N253232	0.3	0.118	68	19.7
			46.00	48.00	N253233	0.4	0.396	400.9	47.3
			48.00	50.00	N253234	0.5	0.23	384.7	30.5
49.50	**65.50**	**FP Feldspar Porphyry buff FMG**	50.00	52.00	N253235	0.1	0.126	269.6	8.8
49.5 - 65.5: As above except fresh. Lower contact is a fault.									
<<Min: 49.5 - 70.3: 2% pyrite / 0.2% chalcocite / 0.3% jarosite>> Chalcocite occurs as coatings and partial replacemen of pyrite. Minor jarosite replacing pyrite decreasing with depth.			52.00	54.00	N253236	0.2	0.106	624.9	28.3
<<Alt: 49.5 - 65.5: strong Silica-Clay-Py / weak to moderate Argillic (fault related)>> End of quartz stockwork at 65.5m. Lower contact with chlorite - sericite alteration sharp and marked by a fault.			54.00	56.00	N253237	-0.05	0.126	490.2	146.8
<<Struc: 49.9 - 57: strong Fault Zone 10 deg. >> Interval of crushed rock and gouge. Most intense gouge at end of the section.			56.00	58.00	N253238	-0.05	0.155	468.7	102.8
<<Struc: 59.3 - 59.47: strong Gouge 35 deg. >>			58.00	60.00	N253240	-0.05	0.106	701.6	58.8
<<Struc: 60.9 - 61.4: moderate to strong Local Gouge 35 deg. >>			60.00	62.00	N253241	0.2	0.235	2374.3	54.8
<<Struc: 63 - 63.1: strong Gouge 15 deg. >>			62.00	64.00	N253242	0.8	0.52	3763.3	53.4
<<Struc: 64.2 - 64.3: strong Gouge 23 deg. >>			64.00	66.00	N253243	1	0.429	3170	73
65.50	**71.30**	**BVv Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs buff**	66.00	68.00	N253245	2.1	0.583	4480.1	56.9
65.5 - 71.3: Upper contact is fault. Rock is pale green grey Bonanza Volcanic tuff to breccia. Strong alteration makes primary features difficult to recognize. Green colour due to chloritic alteration. Rock looks like chlorite - sericite alteration: intermediate argillic. Non magnetic rock. Lower contact is a fault zone. Quartz stockwork ends at faulted contact.									
<<Min: 70.3 - 149: 5% pyrite>> Pyrite as veins and dry fractures. Rare chalcocite in upper part of the interval.			68.00	70.00	N253246	1.1	0.258	1902.4	60.4
<<Alt: 65.5 - 71.3: moderate to strong Silica-Clay-Py / weak to moderate Chlorite-Magnetite (+/- Si)>> No magnetite, bu noticeable chlorite alteration and sericite impart a greenish colour to the rock. Dominant alteration remains SCP. Best desribed as transitional to CMG.			70.00	72.00	N253247	0.4	0.174	980.5	16.1

From (m)	To (m)	Rocktype & Description
		<<Vein: 65.5 - 71.3: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>
		<<Struc: 68.5 - 73.5: moderate to strong Fault Zone 20 deg. >> Gouge and crushed rock. Competent sections less tha 15 in length.
71.30	**76.50**	**FP Feldspar Porphyry buff FG**
		71.3 - 76.5: Fine grained porphyritic rock. Could be a tuff or a flow within the Bonanza Volcanic unit. Appears to have clast fragments / xenoliths of BVv incorporated in to it. Both contacts are fault breccia.
		<<Alt: 71.3 - 127.5: strong Silica-Clay-Py>>
		<<Vein: 71.3 - 150.88: / 3% Pyrite / 2% Calcium carbonate/Carbonate>>
76.50	**150.88**	**BVv Bonanza Volcanic Undivided: buff Includes andesitic flows, breccia and tuffs**
		76.5 - 150.88: Strong advanced argillic alteration obliterates the primary features of the rock. Mainly fine grained tuff with sections of tuff - breccia.
		<<Min: 149 - 150.88: 5% pyrite / 1% magnetite>> First appearance of magnetite. Fine disseminations.
		<<Alt: 127.5 - 138.42: moderate Silica-Clay-Py / moderate Chlorite-Magnetite (+/- Si)>> Chlorite - sericite altered with SCP over print. No magnetite. Transitional from Advanced Argillic to Intermediate Argillic alteration.
		<<Alt: 138.42 - 150.88: strong Silica-Clay-Py>> Contact is sharp and marked by a zone of faulting.
		<<Struc: 76.5 - 77: intense Contact 20 deg. >> Faulted contact with FP.
		<<Struc: 79 - 81: strong Fault Zone 20 deg. >> Mainly gouge with section of rubble
		<<Struc: 83.3 - 83.35: moderate to strong Gouge 20 deg. >>
		<<Struc: 85.4 - 85.5: strong Gouge 30 deg. >>
		<<Struc: 91 - 91.05: strong Gouge 15 deg. >>
		<<Struc: 99.1 - 103.4: moderate to strong Fault Zone 25 deg. >>
		<<Struc: 105.3 - 105.8: moderate to strong Brittle Fracture 20 deg. >> Rubble zone
		<<Struc: 108.4 - 111.25: strong Fault Zone 20 deg. >>
		<<Struc: 114.8 - 117.35: strong Gouge 15 deg. >>
		<<Struc: 120 - 130: strong Gouge 15 deg. >> Mainly gouge with 10cm or less rare competent sections.
		<<Struc: 132.3 - 134.5: strong Fault Zone 20 deg. >>
		<<Struc: 136.5 - 150.88: intense Fault Zone 20 deg. >> Major fault at 20 degrees to CA.

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
72.00	74.00	N253248	0.2	0.075	617.6	10.3
72.00	74.00	N253249	0.3	0.084	593.7	8.9
74.00	76.00	N253250	0.2	0.05	419.6	14.6
76.00	78.00	N253251	0.1	0.065	821.4	5.9
78.00	80.00	N253252	-0.05	0.034	617.3	4.3
80.00	82.00	N253253	-0.05	0.032	727.4	4.5
82.00	84.00	N253254	-0.05	0.018	358.8	4.1
84.00	86.00	N253255	0.1	0.049	539.1	3.9
86.00	88.00	N253256	0.1	0.036	235.9	9.8
88.00	90.00	N253257	0.1	0.034	212.2	6.4
90.00	92.00	N253258	0.1	0.037	250.6	5.9
92.00	94.00	N253259	-0.05	0.027	136	11.8
94.00	96.00	N253260	-0.05	0.087	140.7	3.7
96.00	98.00	N253262	0.5	0.025	286.4	4.4
98.00	100.00	N253263	-0.05	0.026	448	2.4
100.00	102.00	N253264	0.2	0.035	451.6	8.6
102.00	104.00	N253265	0.2	0.05	1811.2	39.2
104.00	106.00	N253266	0.1	0.051	977.2	22.1
106.00	108.00	N253267	0.1	0.029	1141.6	33.4
108.00	110.00	N253269	0.1	0.055	1164.2	54.9
110.00	112.00	N253270	-0.05	0.029	456.1	27.7
112.00	114.00	N253271	-0.05	0.045	1442.8	79.6
112.00	114.00	N253272	-0.05	0.05	1526.2	80.2
114.00	116.00	N253273	-0.05	0.024	343.7	37.1

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-04**

From (m)	To (m)	Rocktype & Description

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
116.00	118.00	N253274	-0.05	0.049	483.7	46.3
118.00	120.00	N253275	-0.05	0.07	1079.4	8.5
120.00	122.00	N253276	-0.05	0.028	598	10.8
122.00	124.00	N253277	-0.05	0.055	522.7	13.9
124.00	126.00	N253278	-0.05	0.046	531	9
126.00	128.00	N253279	-0.05	0.034	718.3	13.4
128.00	130.00	N253280	0.2	0.055	837.1	32.5
130.00	132.00	N253281	0.1	0.077	656.8	28.7
132.00	134.00	N253282	0.2	0.071	623.6	37
134.00	136.00	N253283	0.2	0.073	974.2	38.7
136.00	138.00	N253285	-0.05	0.097	942.2	28.8
138.00	140.00	N253286	0.2	0.083	1532.8	51.2
140.00	142.00	N253287	0.2	0.075	1336.9	77.9
142.00	144.00	N253289	-0.05	0.13	1133.4	91
142.00	144.00	N253290	-0.05	0.175	1044.4	98.1
144.00	146.00	N253291	-0.05	0.088	944.9	86.8
146.00	148.00	N253292	0.1	0.071	960	43.8
148.00	150.88	N253293	200	0.076	3429.9	50

End of Hole @ 150.88

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-05**

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	25/07/2016
Easting:	5617739.01	Azimuth:	180	Date Completed:	31/07/2016
Northing:	572598.34	Dip:	-90	Drill Company:	Kluane
Elevation (m):	374.43	Length (m):	124	Drill Rig:	
Hole Type:	DD			Drill Started:	24/07/2016
Hole Diameter:				Drill Completed:	28/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
50.29	-89.6	8.6	17.25	25.85	ReflexEZS	Unknown	25/07/2016	5389	☑	
100	-89	34.6	17.25	51.85	ReflexEZS	Unknown	26/07/2016	5425	☑	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	

0.00 3.05 CASE Drill casing/overburden

3.05 36.70 BVv Bonanza Volcanic Undivided: buff
Includes andesitic flows,
breccia and tuffs

3.05 - 36.7: Bonanza Volcanics; tuff-breccia. Texture obscured by intense SCP alteration and subsequent leaching.

<<Min: 3.05 - 36.58: pyrite / magnetite / hematite / chalcopyrite / chalcocite / 5% jarosite / 3% goethite>> Leach cappin
All primary sulphides absent except for transitional zone, which starts at 34m.

<<Min: 36.58 - 60: 7% pyrite / magnetite / hematite / chalcopyrite / 0.2% chalcocite>> Zone of secondary enrichment.
Chalcocite caots pyrite grains and localy replaces very fine grains of pyrite.

<<Alt: 3.05 - 36.58: strong Leached (Prev. SCZ) / strong Silica-Clay-Py / moderate to strong Argillic (fault related)>>
Leach cap with accompanying argillic (kaolinite) alteration over printing advanced argillic alteration (SCP). Earlier alterations such as CMG and POT are not present.

<<Alt: 36.58 - 62: / strong Silica-Clay-Py / weak to moderate Argillic (fault related)>> Secondary enrichment zone.
Argillic alteration present along structures becoming weaker with depth.

<<Vein: 3.05 - 36.58: 5% Quartz / 2% Goethite / 2% Calcium carbonate/Carbonate>>

<<Vein: 36.58 - 60: 5% Quartz / 4% Pyrite / 2% Calcium carbonate/Carbonate>>

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	

<<Struc: 3.05 - 19.5: strong Fault Zone>> Zone of gouge rubble and occational 15cm or competent rock. No distict fabric or dip to structure.

<<Struc: 21.34 - 22.4: strong Gouge 20 deg. >>

<<Struc: 25.5 - 25.8: strong Gouge 20 deg. >>

<<Struc: 27 - 27.35: strong Gouge 25 deg. >>

<<Struc: 36.58 - 37.5: strong Gouge 30 deg. >>

36.70 99.06 BVt Bonanza Volcanic Tuffs: tuff, tuff-breccia of andesitic composition buff FMG

36.7 - 99.06: Fault contact with above unit. Ash tuff, massive, no bedding noted. Some lapilli sized fragments noted. Intens alteration obscures original textures. Lower contact is also a fault.

<<Min: 60 - 99.06: 10% pyrite / magnetite / hematite / chalcopyrite / chalcocite>> Pyrite replaces primary mafic mineral as well as in dry fracutres and veins.

<<Alt: 62 - 99.06: / strong Silica-Clay-Py>>

<<Vein: 60 - 124: / 4% Pyrite / 2% Calcium carbonate/Carbonate>>

<<Struc: 53 - 53.1: intense Slicks 25 deg. >>

<<Struc: 61 - 61.3: moderate Breccia>>

<<Struc: 66 - 68: strong Fault Zone 25 deg. >> Fault zone at geological contact.

<<Struc: 70 - 70.2: strong Gouge 35 deg. >>

<<Struc: 73.15 - 73.25: strong Gouge 35 deg. >>

<<Struc: 74.68 - 76.2: strong Fault Zone 30 deg. >>

<<Struc: 85.34 - 87.5: strong Fault Zone 40 deg. >>

<<Struc: 90.8 - 92: moderate to strong Fault Zone 20 deg. >>

<<Struc: 93.3 - 98.58: strong Fault Zone 15 deg. >> Fault at geological contact.

99.06 102.20 BVv Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs buff

99.06 - 102.2: Tuff breccia as at top of the hole.

<<Min: 99.06 - 102.2: 8% pyrite / magnetite / hematite / chalcopyrite / chalcocite>> Decrease in pyrite in CMG alteratio but no magnetite or hematite.

<<Alt: 99.06 - 102.2: / weak to moderate Silica-Clay-Py / moderate to strong Chlorite-Magnetite (+/- Si)>> CMG formed of chlorite and sericite without magnetite is dominant alteration. SCP overprints outward from structures.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	

102.20 114.00 Ba **Basalt: Forms narrow dykes of very fine grained to fine porphyritic texture. Very late intrusive unit. Generally less than 3 metre thick.** **grey** **FG**

102.2 - 114: Fine grained porphyritic texture. Massive and un-broken. Upper contact chilled, lower contact fault.

<<Min: 102.2 - 114: 0.3% pyrite>>

<<Alt: 102.2 - 114: / weak Propylitic>> Weak chloritization and trace to 1% disseminated pyrite

<<Struc: 102.2 - 102.25: intense Contact 20 deg. >> Dyke contact

114.00 124.00 BVv **Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs** **green**

114 - 124: As above.

<<Min: 114 - 124: 5% pyrite>>

<<Alt: 114 - 124: / moderate to strong Chlorite-Magnetite (+/- Si)>> Chlorite - sericite alteration laking magnetite.

<<Struc: 114 - 115.8: intense Fault Zone 16 deg. >> Fault zone at dyke contact.

<<Struc: 115.8 - 124: intense Fault Zone 16 deg. >> Intense fault zone mostly gouge.

End of Hole @ 124

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-05A**

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	08/08/2016
Easting:	572591.81	Azimuth:	180	Date Completed:	15/09/2016
Northing:	5617767.02	Dip:	-90	Drill Company:	Kluane
Elevation (m):	376.85	Length (m):	207.77	Drill Rig:	
Hole Type:	DD			Drill Started:	06/08/2016
Hole Diameter:				Drill Completed:	13/08/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑	Cave at end of hole. From 205.44 m to E.O.H mostly cave with fractured rock.			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-89.8	93	17.25	110.25	ReflexEZS	Unknown	10/08/2016	5432	☑	
50	-89.5	94.4	17.25	111.65	ReflexEZS	Unknown	10/08/2016	5432	☑	
80	-89.4	149.7	17.25	166.95	ReflexEZS	Unknown	11/08/2016	5422	☑	
150	-88.8	120.4	17.25	137.65	ReflexEZS	Unknown	13/08/2016	5377	☑	
180	-88.7	124.1	17.25	141.35	ReflexEZS	Unknown	14/08/2016	5455	☑	

From (m)	To (m)		Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
0.00	**3.05**	**CASE**	**Drill casing/overburden**							
3.05	**7.62**	**BVv**	**Bonanza Volcanic Undivided: buff Includes andesitic flows, breccia and tuffs**	3.05	6.00	N253379	0.6	0.251	647.9	19.2

3.05 - 7.62: Weathered and leached zone at top of the hole. Host is tuff breccia rebroken and brecciated by faulting.

<<Min: 3.05 - 7.62: / 3% jarosite / 2% goethite>> Leach capping

6.00	8.00	N253380	0.2	0.004	557.2	1.8	

<<Alt: 3.05 - 7.62: moderate to strong Leached (Prev. SCZ) / moderate to strong Silica-Clay-Py / Chlorite-Magnetite (+/- Si) / moderate to strong Argillic (fault related)>> Leach capping. Not as well developed as in holes RD16-04 and 05. Primary alteration is SCP with leaching and associated argillic (kaolinite) alteration over printing the SCP.

<<Vein: 3.05 - 7.62: / Pyrite / 3% Goethite / 2% Calcium carbonate/Carbonate>>

<<Struc: 3.05 - 24: moderate to strong Fault Zone>> No clear dip direction on faulting.

From (m)	To (m)		Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
7.62	**57.61**	**BVv**	**Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs**	**buff**		8.00	10.00	N253381	0.4	0.079	1216.1	99.7
7.62 - 57.61: As above without leaching and oxidation.												
<<Min: 7.62 - 12: 5% pyrite / magnetite / hematite / chalcopyrite / 0.2% chalcocite>> Traces chalcocite coating pyrite grains.						10.00	12.00	N253382	0.3	0.056	610.6	12.2
<<Min: 12 - 38: 8% pyrite>>						12.00	14.00	N253384	0.2	0.047	541.4	45.6
<<Min: 38 - 57.61: 5% pyrite>>						14.00	16.00	N253385	0.2	0.039	911.9	54.1
<<Alt: 7.62 - 57.61: Leached (Prev. SCZ) / strong Silica-Clay-Py / trace Argillic (fault related)>> Weak secondary zone at upper contact.						16.00	18.00	N253386	0.2	0.036	641.3	47.8
<<Vein: 7.62 - 124: / 4% Pyrite / 2% Calcium carbonate/Carbonate>>						18.00	20.00	N253387	0.2	0.027	770.2	33.4
<<Struc: 29 - 29.1: Slicks 26 deg. >> Slickensides plunge 70 degrees to SW. Assumes south facing fault.						20.00	22.00	N253388	0.7	0.04	660.4	29.8
<<Struc: 34 - 34.1: strong Slicks 20 deg. >> Slickensides plunge 70 degrees SW. Based on south dipping fault.						22.00	24.00	N253389	0.2	0.041	594.5	16.7
<<Struc: 38.5 - 57.61: strong Fault Zone 25 deg. >> Fault contact at 20 degrees to CA						24.00	26.00	N253390	1.3	0.083	2223	22.4
						26.00	28.00	N253391	0.2	0.071	981	71.3
						28.00	30.00	N253392	0.2	0.045	910.9	20.9
						28.00	30.00	N253393	0.2	0.047	892.4	18
						30.00	32.00	N253394	0.2	0.038	505.9	18.8
						32.00	34.00	N253395	0.1	0.034	390	15.1
						34.00	36.00	N253396	-0.05	0.034	228.6	13.1
						36.00	38.00	N253397	0.1	0.047	340.3	22.3
						38.00	40.00	N253399	0.2	0.034	277.9	16.4
						40.00	42.00	N254000	0.1	0.043	415.8	39.7
						42.00	44.00	N254001	0.2	0.054	554.5	32.3
						44.00	46.00	N254002	0.1	0.063	367.3	130.6
						46.00	48.00	N254003	-0.05	0.035	141.5	17.4
						48.00	50.00	N254004	-0.05	0.045	195.7	13.9
						50.00	52.00	N254005	-0.05	0.058	226.6	21.4
						52.00	54.00	N254006	-0.05	0.054	253	47.9
						54.00	56.00	N254007	-0.05	0.035	137.5	6.8
						56.00	58.00	N254009	0.8	0.068	129.2	17.2
57.61	**66.20**	**FP**	**Feldspar Porphyry**	**buff**	**FMG**	58.00	60.00	N254010	-0.05	0.012	23.5	6.3
57.61 - 66.2: Sparse porphyry with tabular to broken feldspar forming about 30% of the rock in a fine grained felted groundmass of feldspar and quartz.												

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
		<<Min: 57.61 - 60: 7% pyrite / 0.2% chalcocite>> Trace chalcocite coating pyrite grains.	60.00	62.00	N254011	-0.05	0.013	53.1	14.4
		<<Min: 60 - 66: 7% pyrite>>	62.00	64.00	N254012	-0.05	0.017	29	5.7
		<<Min: 66 - 72: 10% pyrite>>	64.00	66.00	N254013	-0.05	0.007	28.7	6.9
		<<Alt: 57.61 - 66.2: / moderate to strong Phyllic>> Quartz sericite alteration of feldspar and groundmass. Rare tourmaline noted. Pyrite mainly as disseminations lesser as dry fracture fillings.	66.00	68.00	N254014	-0.05	0.029	217.1	5.3
66.20	**70.30**	**BVv Bonanza Volcanic Undivided: buff Includes andesitic flows, breccia and tuffs**	68.00	70.00	N254015	-0.05	0.028	216.3	6.5
		66.2 - 70.3: As above. Alteration sericitic with incipient chlorite alteration.							
		<<Alt: 66.2 - 70.3: / weak to moderate Silica-Clay-Py / moderate to strong Chlorite-Magnetite (+/- Si)>> Transitional between SCP and CMG. No magnetite, but chlorite alteration is prominent. Best called intermediate argillic alteration as it is dominantly sericite and chlorite altered.	70.00	72.00	N254017	-0.05	0.008	116.6	3.6
		<<Struc: 66.2 - 66.5: intense Contact 62 deg. >> Chilled margin. No fault							
70.30	**71.50**	**FP Feldspar Porphyry buff FMG**							
		70.3 - 71.5: As above							
		<<Alt: 70.3 - 71.5: / moderate to strong Phyllic>>							
		<<Struc: 70.3 - 70.35: intense Contact 70 deg. >>							
71.50	**144.70**	**BVv Bonanza Volcanic Undivided: buff Includes andesitic flows, breccia and tuffs**	72.00	74.00	N254018	-0.05	0.019	175.1	3.8
		71.5 - 144.7: As above							
		<<Min: 72 - 80: 12% pyrite>>	74.00	76.00	N254019	0.4	0.02	105.2	5.4
		<<Min: 80 - 83: 10% pyrite>>	74.00	76.00	N254020	-0.05	0.022	122	6.7
		<<Min: 83 - 88: 5% pyrite>>	76.00	78.00	N254021	-0.05	0.048	157.8	9.3
		<<Min: 88 - 104: 7% pyrite>>	78.00	80.00	N254022	-0.05	0.056	186.4	7.6
		<<Min: 104 - 112: 7% pyrite / 0.5% hematite>> Hematite likely after original magnetite.	80.00	82.00	N254023	-0.05	0.037	256.1	6.2
		<<Min: 112 - 148: 5% pyrite / 0.5% hematite>>	82.00	84.00	N254024	-0.05	0.027	219.7	5.8
		<<Alt: 71.5 - 140.2: / weak to moderate Silica-Clay-Py / moderate to strong Chlorite-Magnetite (+/- Si)>> As above intermediate argillic alteration.	84.00	86.00	N254025	-0.05	0.043	322.3	7.7
		<<Alt: 140.2 - 178: / moderate to strong Chlorite-Magnetite (+/- Si)>> True CMG. Magnetite is present in significant amounts as mafic replacementment and stringers.	86.00	88.00	N254026	-0.05	0.039	393.3	12.3
		<<Vein: 124 - 150.2: / 3% Pyrite / 2% Calcium carbonate/Carbonate>> First appearance of pink carbonate veining at 124m.	88.00	90.00	N254027	-0.05	0.039	594.4	67.6
		<<Struc: 71.5 - 71.55: intense Contact 50 deg. >>	90.00	92.00	N254028	-0.05	0.056	563.3	13.9

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
<<Struc: 83 - 88.5: strong Fault Zone 25 deg. >>			92.00	94.00	N254029	-0.05	0.046	593.5	25.4
<<Struc: 91.3 - 91.4: strong Gouge 45 deg. >>			94.00	96.00	N254030	-0.05	0.067	753.3	24
<<Struc: 112 - 148: strong Fault Zone 25 deg. >> to core axis.		Intense fault zone with abundant gouge section. Consistent -25 angle	96.00	98.00	N254031	-0.05	0.059	712.7	18.2
			98.00	100.00	N254032	-0.05	0.053	804.9	10.6
			100.00	102.00	N254034	-0.05	0.056	636.1	12.8
			102.00	104.00	N254035	-0.05	0.058	581	10.7
			102.00	104.00	N254036	-0.05	0.054	582.6	10.3
			104.00	106.00	N254037	-0.05	0.087	568.9	16.9
			106.00	108.00	N254038	-0.05	0.046	555.1	8.8
			108.00	110.00	N254039	-0.05	0.038	344.7	6
			110.00	112.00	N254040	-0.05	0.04	362.8	6.9
			112.00	114.00	N254041	0.7	0.063	527.6	13.6
			114.00	116.00	N254043	1.4	0.038	385.5	19.6
			116.00	118.00	N254044	0.1	0.054	563.2	25.8
			118.00	120.00	N254045	-0.05	0.06	521.6	15.7
			120.00	122.00	N254046	-0.05	0.05	342.6	17.5
			122.00	124.00	N254047	-0.05	0.026	277.9	25.8
			124.00	126.00	N254048	-0.05	0.041	350.2	25.2
			126.00	128.00	N254049	-0.05	0.037	458.1	32.7
			128.00	130.00	N254051	-0.05	0.029	359.9	27
			130.00	132.00	N254052	0.1	0.041	580.1	35.3
			132.00	134.00	N254053	0.1	0.052	430.3	23.9
			134.00	136.00	N254054	-0.05	0.024	348.7	21.4
			136.00	138.00	N254055	3.4	0.021	309.7	22.8
			138.00	140.00	N254056	121.9	0.028	653.2	23.9
			140.00	142.00	N254057	0.2	0.057	612	25.7
			142.00	144.00	N254059	0.2	0.021	218.7	17.3
			144.00	146.00	N254060	4.4	0.02	234.9	22.6
144.70	**147.80**	**FP** **Feldspar Porphyry** **grey** **FMG**	146.00	148.00	N254061	-0.05	0.013	83.6	15.6
144.7 - 147.8: As above. Contact is a fault.									

From (m)	To (m)		Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
147.80	**148.10**	**BVv**	**Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs**	**buff**		148.00	150.00	N254062	0.2	0.026	291.4	21.7
147.8 - 148.1: As above. Very broken, small fragments and rubble.												
<<Min: 148 - 160: 10% pyrite / 3% magnetite / 0.3% hematite / 0.5% epidote>> Minor epidote as fine grains and cluste												
148.10	**149.00**	**FP**	**Feldspar Porphyry**	**grey**	**FMG**							
148.1 - 149: Both contacts are faults.												
149.00	**206.00**	**BVv**	**Bonanza Volcanic Undivided: Includes andesitic flows, breccia and tuffs**	**green**		150.00	152.00	N254063	0.2	0.045	596.4	42.8
149 - 206: Bonanza Volcanic tuff - breccia.												
<<Min: 160 - 170: 6% pyrite / 3% magnetite / 1% hematite / 1% epidote>>						150.00	152.00	N254064	0.2	0.041	478.1	54.6
<<Min: 170 - 174: 3% pyrite / 7% magnetite / 4% hematite>>						152.00	154.00	N254065	0.3	0.046	620.6	35.9
<<Min: 174 - 178: 5% pyrite / 7% magnetite / 3% hematite>>						154.00	156.00	N254066	-0.05	0.016	246.5	22.2
<<Min: 178 - 179.5: 10% pyrite>>						156.00	158.00	N254067	-0.05	0.022	264.5	8.4
<<Min: 179.5 - 188: 5% pyrite / 3% magnetite / 0.5% hematite>>						158.00	160.00	N254068	-0.05	0.037	226.9	18.2
<<Min: 188 - 190: 6% pyrite / 3% magnetite / 0.5% hematite / 0.5% epidote>>						160.00	162.00	N254069	0.1	0.029	297.7	16
<<Min: 190 - 198: 7% pyrite / 3% magnetite / 0.5% hematite>>						162.00	164.00	N254070	0.1	0.044	403.9	22.7
<<Min: 198 - 206: 9% pyrite>>						164.00	166.00	N254071	0.2	0.028	238.4	20.4
<<Alt: 178 - 179.5: / moderate to strong Silica-Clay-Py>>						166.00	168.00	N254072	0.1	0.028	214.9	34.7
<<Alt: 179.5 - 198: / moderate to strong Chlorite-Magnetite (+/- Si)>> As above. Magnetite bearing.						168.00	170.00	N254074	0.2	0.051	524.4	21.1
<<Alt: 198 - 206: / moderate to strong Silica-Clay-Py>> Coincides with an intense fault zone. Non magnetic with little chlorite.						170.00	172.00	N254075	-0.05	0.024	386.3	19.4
<<Vein: 150.2 - 178: / 3% Pyrite / 2% Calcium carbonate/Carbonate / 2% Magnetite>> magnetite as dry fracture fillings						172.00	174.00	N254076	0.1	0.055	455.4	24
<<Vein: 178 - 179.5: / 4% Pyrite / 2% Calcium carbonate/Carbonate>>						174.00	176.00	N254078	0.3	0.023	206.2	13.3
<<Vein: 179.5 - 198: / 2% Pyrite / 2% Calcium carbonate/Carbonate / 2% Magnetite>> Sericitic selveges around pyrite stringers.						176.00	178.00	N254079	0.2	0.021	219.2	9.7
<<Vein: 198 - 206: / 3% Pyrite / 2% Calcium carbonate/Carbonate>>						178.00	180.00	N254080	0.2	0.021	187.7	14.4
<<Struc: 175.6 - 175.65: strong Gouge 35 deg. >>						180.00	182.00	N254081	-0.05	0.024	231.8	6.4
<<Struc: 177.5 - 177.55: strong Gouge 20 deg. >>						182.00	184.00	N254082	-0.05	0.019	292.7	14.2
<<Struc: 178.6 - 178.75: strong Gouge 30 deg. >>						184.00	186.00	N254083	-0.05	0.019	259.7	20.7
<<Struc: 190 - 190.05: strong Gouge 45 deg. >>						186.00	188.00	N254084	-0.05	0.026	308.1	6.3

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-05A**

From (m)	To (m)	Rocktype & Description
		<<Struc: 198.5 - 206: intense Fault Zone 20 deg. >> Major fault, mostly gouge with occational sections of crushed rock usually less than 2cm in diameter. Abundant slickensides show plunges steep to the SW. Occational slicks with more stri slip movement.

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
186.00	188.00	N254085	0.1	0.03	280.9	9.1
188.00	190.00	N254086	-0.05	0.026	329.3	10.1
190.00	192.00	N254087	-0.05	0.026	209.5	8.4
192.00	194.00	N254088	-0.05	0.028	288.3	5.1
194.00	196.00	N254089	-0.05	0.024	283.4	9.5
196.00	198.00	N254090	-0.05	0.033	265	12.5
198.00	200.00	N254091	-0.05	0.031	184	7.8
200.00	202.00	N254093	0.2	0.022	314.5	5.6
202.00	204.00	N254094	0.1	0.027	210.8	9.3

End of Hole @ 207.77

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GeoSpark Logger ~ Drill Log

Project: **Red Dog** **Hole Number:** **RD16-06**

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	29/07/2016
Easting:	572159.53	Azimuth:	177	Date Completed:	07/08/2016
Northing:	5618171.68	Dip:	-45	Drill Company:	Kluane
Elevation (m):	352.95	Length (m):	152.4	Drill Rig:	
Hole Type:	DD			Drill Started:	28/07/2016
Hole Diameter:				Drill Completed:	06/08/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
30	-43.5	156	17.25	173.25	ReflexEZS	Unknown	06/08/2016	5276	☐	Reading suspect
60	-44.6	162.2	17.25	179.45	ReflexEZS	Unknown	06/08/2016	5398	☑	
90	-44.4	162.1	17.25	179.35	ReflexEZS	Unknown	06/08/2016	5467	☑	
120	-43.8	160.5	17.25	177.75	ReflexEZS	Unknown	06/08/2016	5381	☑	

From (m)	To (m)		Rocktype & Description
0.00	**10.75**	**CASE**	**Drill casing/overburden**
10.75	**30.48**	**BVv**	**Bonanza Volcanic Undivided: grey Includes andesitic flows, breccia and tuffs**

10.75 - 30.48: This interval is a fault zone formed of fragments of QMB, BVv and lesser RDI. Much of the section is gouge and crushed rock of varing provenence.

<<Min: 10.75 - 30.48: / 5% magnetite / 2% hematite / 0.1% chalcopyrite / 3% goethite>> Goethite replaces sulphides and magnetite.

<<Alt: 10.75 - 36.66: intense Chlorite-Magnetite (+/- Si)>>

<<Vein: 10.75 - 30.48: / 2% Calcium carbonate/Carbonate>>

<<Struc: 12 - 18.24: strong Gouge>> No general orientaion of the gouge.

<<Struc: 18.24 - 22: moderate to strong Fault Zone>> Crushed rock and rubble. No consistent attitude to structure.

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
0.00	4.57	N253294	1.3	0.206	298.9	21.2
4.57	9.14	N253295	1.4	0.414	371.3	35.3
9.14	12.00	N253296	0.4	0.204	845.9	41.3
12.00	14.00	N253297	0.2	0.188	1383.8	85.5
14.00	16.00	N253298	0.2	0.191	1162.5	74.6
16.00	18.00	N253299	0.8	0.156	638.2	41.4
18.00	20.00	N253300	0.2	0.087	534.5	24.8
20.00	22.00	N253301	0.2	0.188	563	31.1
22.00	24.00	N253302	0.4	0.134	981.9	34.5

From (m)	To (m)	Rocktype & Description
		<<Struc: 26.8 - 30.42: strong Gouge 50 deg. >>
30.48	**36.66**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **grey**
		30.48 - 36.66: Quartz magnetite breccia. Psuedo breccia resulting from selective replacement by quartz and magnetite of the original andesite.
		<<Min: 30.48 - 36.66: / 15% magnetite / 5% hematite / 1% chalcopyrite>>
		<<Vein: 30.48 - 36.66: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>
36.66	**42.12**	**HFPr** **Hornblende Feldspar Porphyry: late phase dykes of diorite composition. Generally weakly to unaltered.** **grey** **FMG**
		36.66 - 42.12: Hornblende feldspar porphyry. Ggroundmass of feldspar, quarrtz and hornblende. This rock could be called Red Dog Porphyry. Difference is grain size as this is a narrow dyke. \part of the suite of Red Dog Intrusion. Weak propylitic alteration and minor disseminated pyrite. Chilled margin on dyke.
		<<Min: 36.66 - 42.12: 1% pyrite>> Pyrite replaces original mafic minerals.
		<<Alt: 36.66 - 42.12: / weak Propylitic>> Chloritization of mafic minerals. Minor epidote and minor disseminated pyrite
		<<Vein: 36.66 - 42.12: / 2% Calcium carbonate/Carbonate>>
		<<Struc: 36.66 - 36.7: intense Contact 52 deg. >> Chilled contact with QMP.
42.12	**96.80**	**QMP** **Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.** **grey**
		42.12 - 96.8: As above, but unoxidized.

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
24.00	26.00	N253304	0.5	0.251	2062.2	92.7
26.00	28.00	N253305	0.6	0.219	2875.9	98.2
28.00	30.00	N253306	0.8	0.366	1442.7	113.8
30.00	32.00	N253307	0.4	1.056	5326.2	69.6
32.00	34.00	N253308	0.5	0.424	4776.1	83.3
32.00	34.00	N253309	0.4	0.559	4010.3	92.8
34.00	36.00	N253310	1.1	0.119	3466.9	87.2
36.00	38.00	N253311	0.4	0.054	1809.4	18.1
38.00	40.00	N253312	0.2	0.009	580	2.2
40.00	42.00	N253314	0.3	0.015	979.7	2.7
42.00	44.00	N253315	1.7	0.259	3389	27.1
44.00	46.00	N253316	1.7	0.268	3989.4	68.8

From (m)	To (m)	Rocktype & Description
		<<Min: 42.12 - 56: 2% pyrite / 15% magnetite / 5% hematite / 1% chalcopyrite>>
		<<Min: 56 - 96.8: 2% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>
		<<Alt: 42.12 - 96.8: strong Chlorite-Magnetite (+/- Si)>>
		<<Vein: 42.12 - 96.8: / 1% Pyrite / 2% Calcium carbonate/Carbonate>> 10cm discordent quartz vein at 78.3 m
		<<Struc: 42.12 - 42.2: intense Contact 43 deg. >> Chilled contact with QMP
		<<Struc: 48.7 - 48.8: moderate Fracture 80 deg. >> Fracture zone
96.80	**97.00**	**Sy** **Quartz Monzonite to granite: medium to coarse grained hypidiomorphic granular texture. Hematization of feldspar gives the rock a pinkish colour.** **red** **FMG**

96.8 - 97: Quartz monzonite porphyry. Feldspars have characteristic salmon pink colour. Abundant quartz phenocrysts.

From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
46.00	48.00	N253317	1.6	0.161	3083.7	68
48.00	50.00	N253318	0.7	0.279	4505.8	43.1
50.00	52.00	N253319	0.4	0.348	4363.4	95.5
52.00	54.00	N253320	0.4	0.304	2594.9	115.4
54.00	56.00	N253322	0.7	0.386	2895.9	100.2
56.00	58.00	N253323	0.7	0.38	2887.2	74.1
58.00	60.00	N253324	0.5	0.496	2599.4	44
58.00	60.00	N253325	0.5	0.537	2882	56
60.00	62.00	N253326	0.4	0.405	2716.8	43
62.00	64.00	N253327	0.4	0.376	2771.6	211.9
64.00	66.00	N253328	0.7	0.362	2673.4	83.2
66.00	68.00	N253329	0.7	0.345	2907.7	68.3
68.00	70.00	N253330	0.4	0.388	3072.7	56.1
70.00	72.00	N253332	0.3	0.559	2439.6	88.8
72.00	74.00	N253333	0.3	0.538	2519.1	228.6
74.00	76.00	N253334	0.4	0.519	2370.7	78.9
76.00	78.00	N253335	0.5	0.561	2957.2	61.1
78.00	80.00	N253336	0.3	0.365	1626.8	25.9
80.00	82.00	N253337	0.4	0.465	2408.7	53.8
82.00	84.00	N253338	0.3	0.643	3263.2	97.2
84.00	86.00	N253339	0.3	0.609	2704	65.8
86.00	88.00	N253340	0.4	0.582	2721.4	66
88.00	90.00	N253342	0.5	0.563	2456.4	28.8
90.00	92.00	N253343	0.4	0.571	2370.6	61.8
92.00	94.00	N253344	0.4	0.432	2177.3	56.3
94.00	96.00	N253345	0.4	0.471	2172.4	35
96.00	98.00	N253346	0.3	0.545	2619.4	47.6

From (m)	To (m)		Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
			<<Min: 96.8 - 97.08: 1% pyrite / 2% magnetite>>									
			<<Alt: 96.8 - 97.08: / weak Propylitic>> Minor pyrite. As in dyke above.									
			<<Vein: 96.8 - 97.08: / 2% Calcium carbonate/Carbonate>>									
			<<Struc: 96.8 - 96.81: intense Contact 85 deg. >>									
97.00	**110.35**	**QMP**	**Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	**grey**		98.00	100.00	N253347	0.3	0.666	2933.2	59.4
			97 - 110.35: As above									
			<<Min: 97.08 - 110.35: 3% pyrite / 10% magnetite / 5% hematite / 1% chalcopyrite>>			100.00	102.00	N253348	0.4	0.624	3123.8	34.1
			<<Alt: 97.08 - 110.35: strong Chlorite-Magnetite (+/- Si)>>			102.00	104.00	N253349	0.3	0.95	3016	53.2
			<<Vein: 97.08 - 110.35: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>			102.00	104.00	N253350	0.3	0.997	3133.8	36.8
			<<Struc: 97.08 - 97.09: intense Contact 85 deg. >>			104.00	106.00	N253351	0.4	0.975	2978.3	68
			<<Struc: 109.73 - 110.35: moderate to strong Fault Zone 45 deg. >> Fault contact			106.00	108.00	N253352	0.4	0.727	2919.4	42.8
						108.00	110.00	N253354	0.3	0.684	2630.2	31.2
						110.00	112.00	N253355	-0.05	0.06	481.4	21
110.35	**121.00**	**RDP**	**Red Dog Porphyry: Crowded porphyritic textured tonnalite.**	**grey**	**FG**	112.00	114.00	N253356	-0.05	0.009	194.9	5.2
			110.35 - 121: Feldspar with lesser hornblende phenocrysts in a felted groundmass of fldp, qtz and hornblende. Locally, feldspars are hematized imparting a pink coloour to the mineral. Could be called HFPr. \part of the Red Dog Intrusion suite									
			<<Min: 110.35 - 121: 1% pyrite / 2% magnetite>>			114.00	116.00	N253357	-0.05	0.022	287.9	20.7
			<<Alt: 110.35 - 121: / weak Propylitic>>			116.00	118.00	N253358	-0.05	0.006	50.8	2.6
			<<Vein: 110.35 - 121: / 2% Calcium carbonate/Carbonate>>			118.00	120.00	N253359	-0.05	0.013	234.5	5
						120.00	122.00	N253360	0.2	0.128	1436.4	49.2
121.00	**146.10**	**QMP**	**Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	**grey**		122.00	124.00	N253361	0.3	0.361	3002.9	145.7
			121 - 146.1: As above									

From (m)	To (m)	Rocktype & Description			From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
<<Min: 121 - 146.1: 3% pyrite / 10% magnetite / 3% hematite / 1% chalcopyrite>>					124.00	126.00	N253362	0.5	0.425	3663.7	126.8
<<Alt: 121 - 146.1: moderate to strong Chlorite-Magnetite (+/- Si) / weak to moderate Silica-Clay-Py>> Sericite and pyrite overprinting CMG emanating outward from fractures.					126.00	128.00	N253363	0.5	0.307	2782.9	136.9
<<Vein: 121 - 146.1: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>					128.00	130.00	N253364	0.8	0.383	4155.1	170.2
<<Struc: 121 - 121.05: intense Contact 85 deg. >> Contact chilled.					130.00	132.00	N253366	0.5	0.443	4304.1	110.9
<<Struc: 126.3 - 126.5: moderate Fault Zone 90 deg. >>					132.00	134.00	N253367	0.6	0.293	3534.4	140.6
<<Struc: 132 - 134: moderate to strong Fault Zone 50 deg. >>					134.00	136.00	N253368	0.6	0.467	4261.2	131.7
<<Struc: 139.7 - 140: intense Gouge 40 deg. >>					136.00	138.00	N253369	0.6	0.347	2908.6	134
					138.00	140.00	N253370	0.7	0.448	4032.9	167.7
					140.00	142.00	N253371	0.8	0.441	4262.6	122.7
					142.00	144.00	N253372	0.7	0.542	6070.3	141
					144.00	146.00	N253373	0.8	0.7	6812.9	146.3
					144.00	146.00	N253374	0.8	0.755	6110.3	130.1
					146.00	148.00	N253375	0.2	0.105	1830.1	37.8
146.10	**148.10**	**RDP**	**Red Dog Porphyry: Crowded porphyritic textured tonnalite.**	**grey** **FG**	148.00	150.00	N253376	1	0.585	8909.5	50.2
146.1 - 148.1: As above											
<<Min: 146.1 - 148.1: 1% pyrite / 1% magnetite>>											
<<Alt: 146.1 - 148.1: / weak Propylitic>>											
<<Vein: 146.1 - 148.1: / 2% Calcium carbonate/Carbonate>>											
<<Struc: 146.1 - 146.15: intense Contact 85 deg. >>											
148.10	**150.10**	**QMP**	**Quartz Magnetite Breccia: Quartz and magnetite matrix breccia. Breccia fragments include Bonanza Volcanic rocks, RDP and earlier quartz veining.**	**grey**	150.00	152.00	N253377	0.6	0.384	3539.8	37.5
148.1 - 150.1: As above											
<<Min: 148.1 - 150.1: 3% pyrite / 10% magnetite / 2% hematite / 1% chalcopyrite>>											
<<Alt: 148.1 - 150.1: moderate to strong Chlorite-Magnetite (+/- Si) / weak Silica-Clay-Py>>											
<<Vein: 148.1 - 150.1: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>											
<<Struc: 148.1 - 148.3: intense Contact 20 deg. >>											

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	
150.10	**152.20**	**RDP** **Red Dog Porphyry: Crowded porphyritic textured tonnalite.** **grey**								

150.1 - 152.2: Mixed RDP and QMP. QMP are inclusions in the porphyry.

<<Min: 150.1 - 152.2: 3% pyrite / 5% magnetite / 2% hematite / 0.2% chalcopyrite>>

<<Alt: 150.1 - 152.2: moderate Chlorite-Magnetite (+/- Si) / weak Propylitic>> Mixed section of RDP and QMP.

<<Vein: 150.1 - 152.2: / 1% Pyrite / 2% Calcium carbonate/Carbonate>>

<<Struc: 150.1 - 150.2: intense Contact 45 deg. >> Sheared contact

<<Struc: 150.2 - 150.3: intense Contact 30 deg. >>

152.20	**152.40**	**Ba**	**Basalt: Forms narrow dykes of very fine grained to fine porphyritic texture. Very late intrusive unit. Generally less than 3 metre thick.**	**green**	**VFG**					

152.2 - 152.4: Sparse porphyry of fldp phenos in vfg matrix.

<<Min: 152.2 - 152.4: 0.5% pyrite>>

<<Alt: 152.2 - 152.4: / trace Propylitic>>

<<Vein: 152.2 - 152.4: / 2% Calcium carbonate/Carbonate>>

End of Hole @ 152.4

Appendix II

Strip Logs

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-01

Prospect:		Survey Type:	DGPS	Logged By:	MM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	09/07/2016
Easting:	572231.76	Azimuth:	360	Date Completed:	13/07/2016
Northing:	5617996.41	Dip:	-90	Drill Company:	Kluane
Elevation (m):	457.56	Length (m):	201.17	Drill Rig:	
Hole Type:	DD			Drill Started:	09/07/2016
Hole Diameter:				Drill Completed:	13/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑	Twin hole of historical hole 90-03			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-88.8	296.8	17.25	314.05	ReflexEZS	Unknown	14/07/2016	5710	☑	Measurement taken in quartz magnetite breccia. Reading suspect
40	-89.1	303.4	17.25	320.65	ReflexEZS	Unknown	14/07/2016	6057	☐	Reading suspect due to magnetitc unit
60	-88.9	277.7	17.25	294.95	ReflexEZS	Unknown	14/07/2016	5639	☑	Reading suspect due to magnetic wall rock
80	-88.6	290	17.25	307.25	ReflexEZS	Unknown	14/07/2016	5370	☑	Reading suspect
100	-89.1	316.3	17.25	333.55	ReflexEZS	Unknown	14/07/2016	5461	☑	Reading suspect
120	-88.7	320.2	17.25	337.45	ReflexEZS	Unknown	14/07/2016	5416	☑	Reading suspect
160	-88.3	296	17.25	313.25	ReflexEZS	Unknown	14/07/2016	5363	☑	Reading suspect due to magnetic wall rock
180	-88.9	305.1	17.25	322.35	ReflexEZS	Unknown	14/07/2016	5361	☑	\magnetic wall rock. Reading suspect.
200	-89.1	290.8	17.25	308.05	ReflexEZS	Unknown	14/07/2016	5340	☑	Measurement in quartz magnetite breccia. Reading suspect.

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)
0.00	**CASE**								
	0-1.5:CASE								
2.00	**QMP**								
	1.5 - 43.5: Breccia of magnetite fine grained replacing original mafic volcanic rock with matrix of light pinkish coloured fine grained quartz. Some later breaking and rotation of fragments.								
4.00									
6.00									
8.00									
10.00									
12.00									
14.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm

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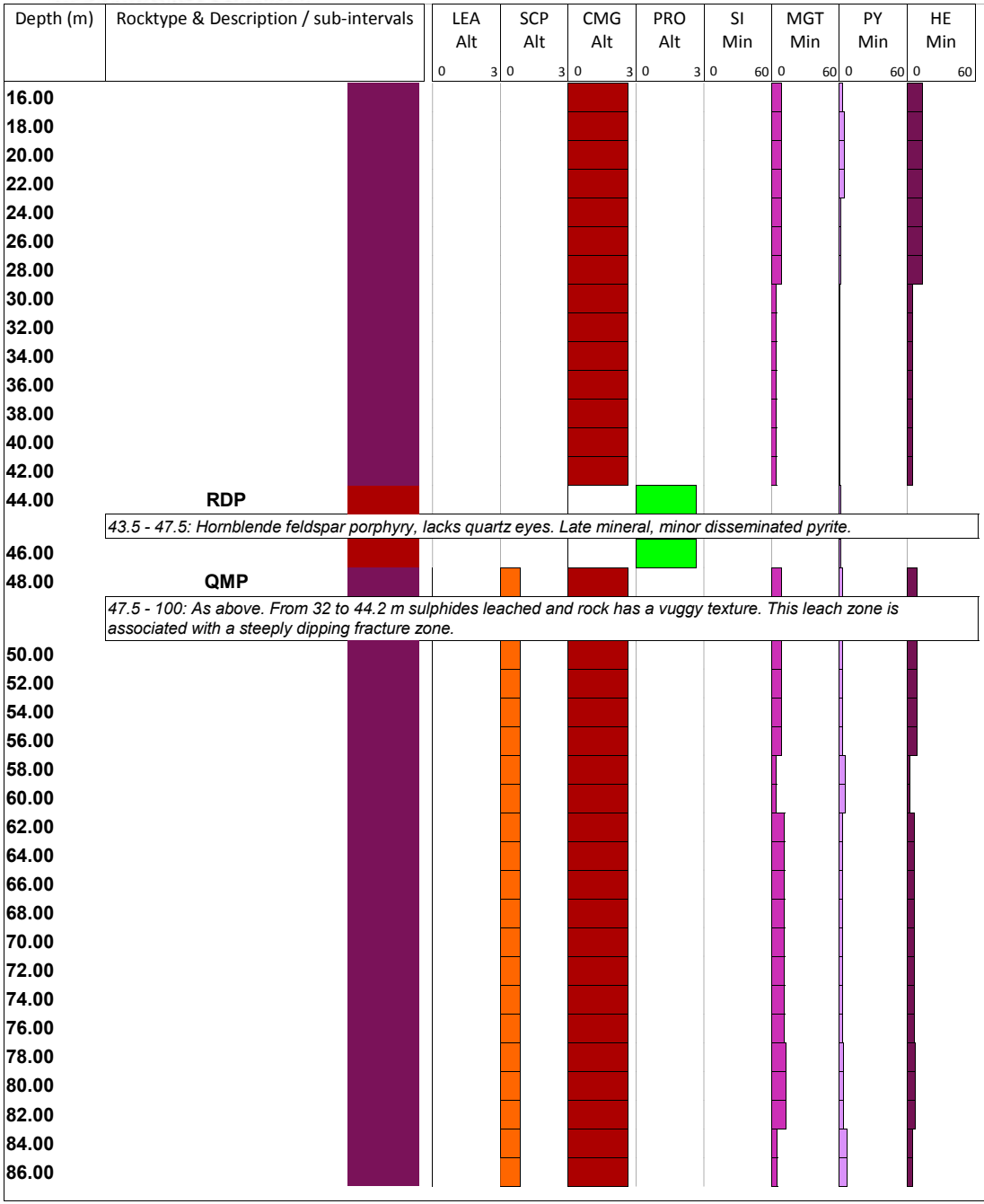
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-01



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
18.00	20.00	2.00	N252949	0.5	0.747	4466.7	102.1
54.00	56.00	2.00	N252970	0.3	0.666	3899	32.6

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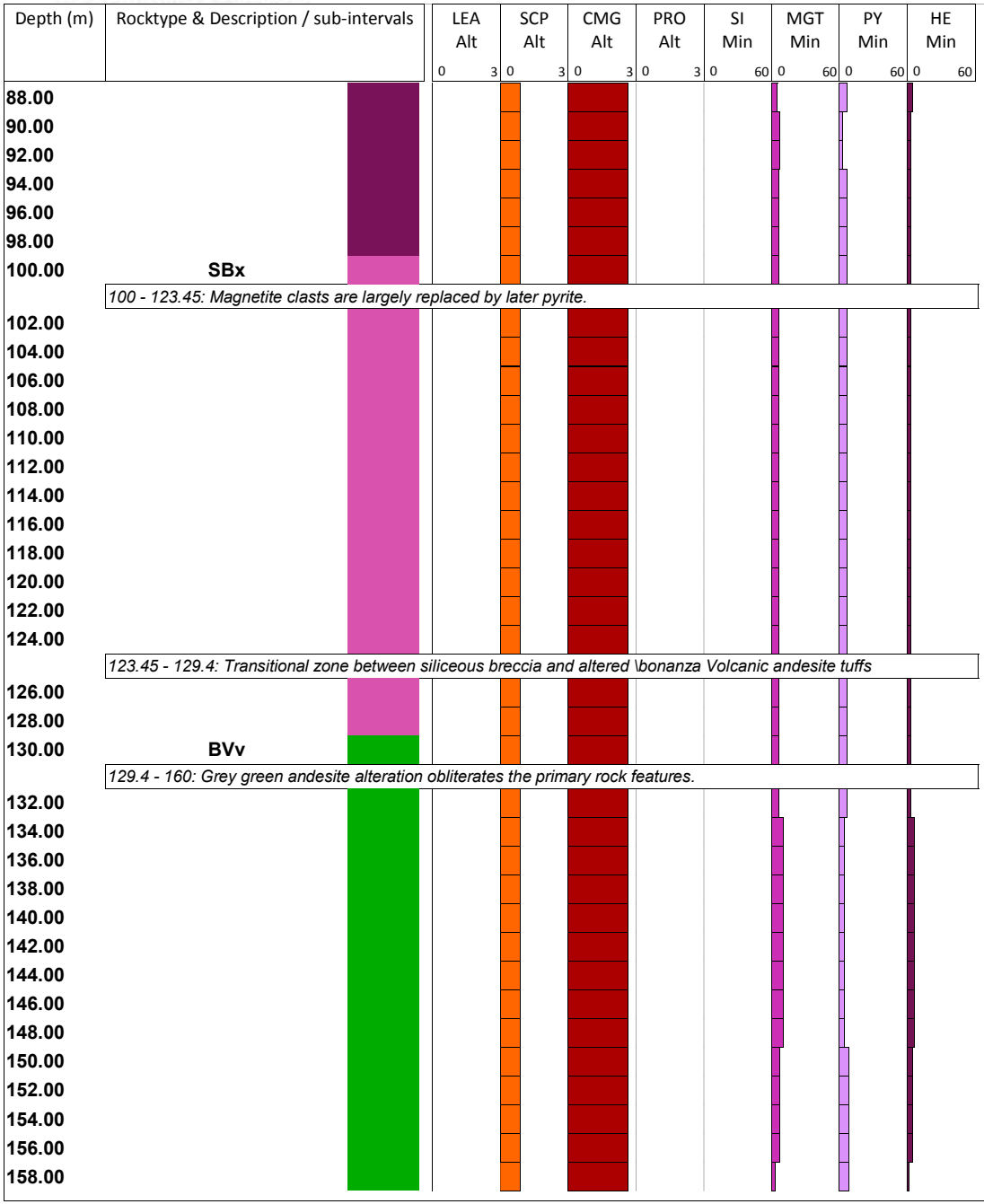
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-01



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
94.00	96.00	2.00	N252993	0.2	0.426	3508.9	46.5
134.00	136.00	2.00	N253016	0.1	0.296	1723.1	112.4

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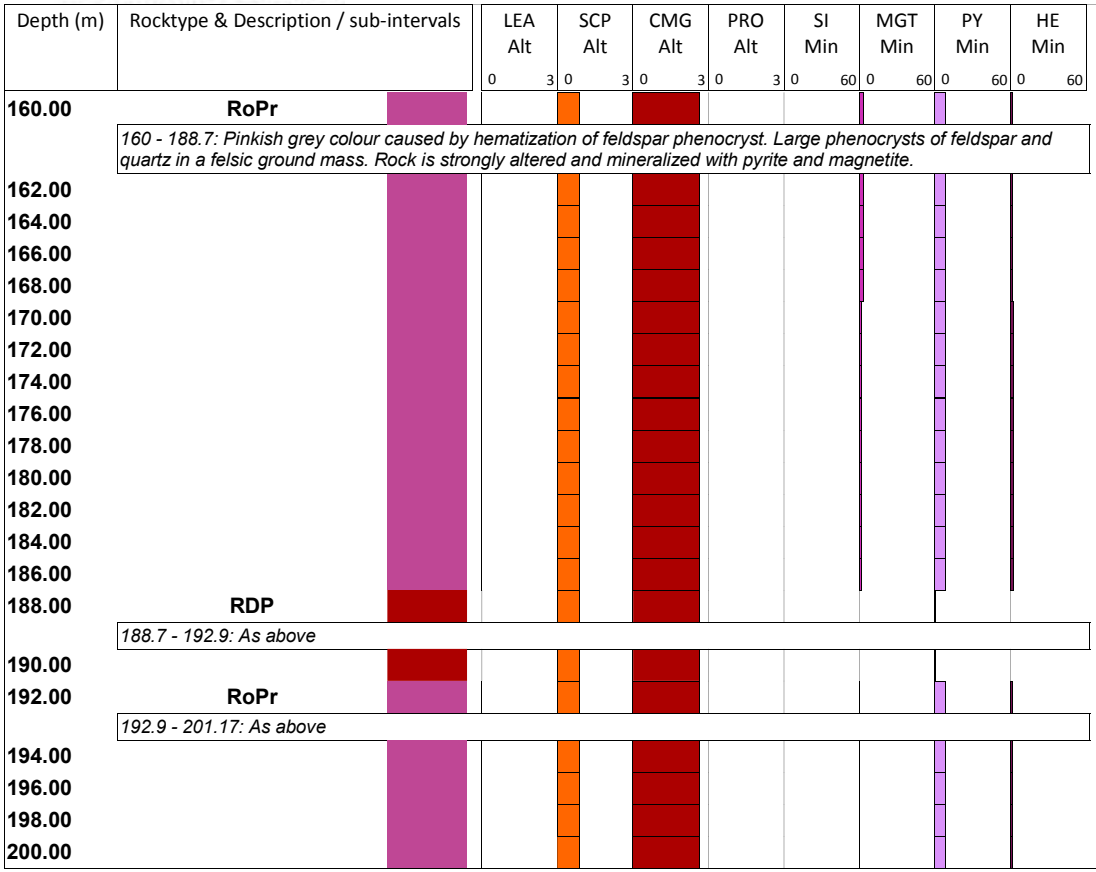
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-01



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
174.00	176.00	2.00	N253039	0.1	0.315	1410	98.2

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-02

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	14/07/2016
Easting:	572269.32	Azimuth:	180	Date Completed:	19/07/2016
Northing:	5617979.12	Dip:	-71	Drill Company:	Kluane
Elevation (m):	463.1	Length (m):	155.45	Drill Rig:	
Hole Type:	DD			Drill Started:	09/07/2016
Hole Diameter:				Drill Completed:	16/09/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
19.81	-70.4	161.3	17.25	178.55	ReflexEZS	Unknown	14/07/2016	5774	☑	\magnetic wall rock. Reading suspect
40	-70.9	169.1	17.25	186.35	ReflexEZS	Unknown	14/07/2016	5127	☐	Reading suspect
80.77	-70.6	154.2	17.25	171.45	ReflexEZS	Unknown	14/07/2016	6003	☐	Reading suspect.
100.58	-70.2	153.6	17.25	170.85	ReflexEZS	Unknown	14/07/2016	5453	☐	Reading suspect due to magnetic wall rock
120	-70.1	163.4	17.25	180.65	ReflexEZS	Unknown	16/07/2016	5439	☑	Reading suspect.
155.45	-69.8	160.6	17.25	177.85	ReflexEZS	Unknown	16/07/2016	5708	☑	Measurement in highly magnetic unit. Reading suspect

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)
0.00	**CASE**								
	0 - 7.2: Overburden contains pebbles of magnetite breccia, andesite replaced by magnetite and fragments of quartz vein material.								
2.00									
4.00									
6.00									
8.00	**QMP**								
	7.2 - 14: Limonite on fracture surfaces								
10.00									
12.00									
14.00									
	14 - 18: Consists of dark green grey BVv fragments replaced by magnetite in a matrix of pinkish grey fg quartz. Some later brecciation as fragments of quartz veins present locally. Appears to be transitional between QMP and BVv with quartz vein stockwork. Local BVv with stockwork at 44 to 48 m								
16.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
8.00	10.00	2.00	N253054	0.5	0.87	4854.1	82.9
10.00	12.00	2.00	N253055	2	1.202	10000	73.8
12.00	14.00	2.00	N253056	0.7	1.048	6234.3	164.6
14.00	16.00	2.00	N253057	0.6	1.044	7362	127.1
16.00	18.00	2.00	N253059	0.5	0.716	5996.2	99.4

GeoSpark Logger ~ Strip Log

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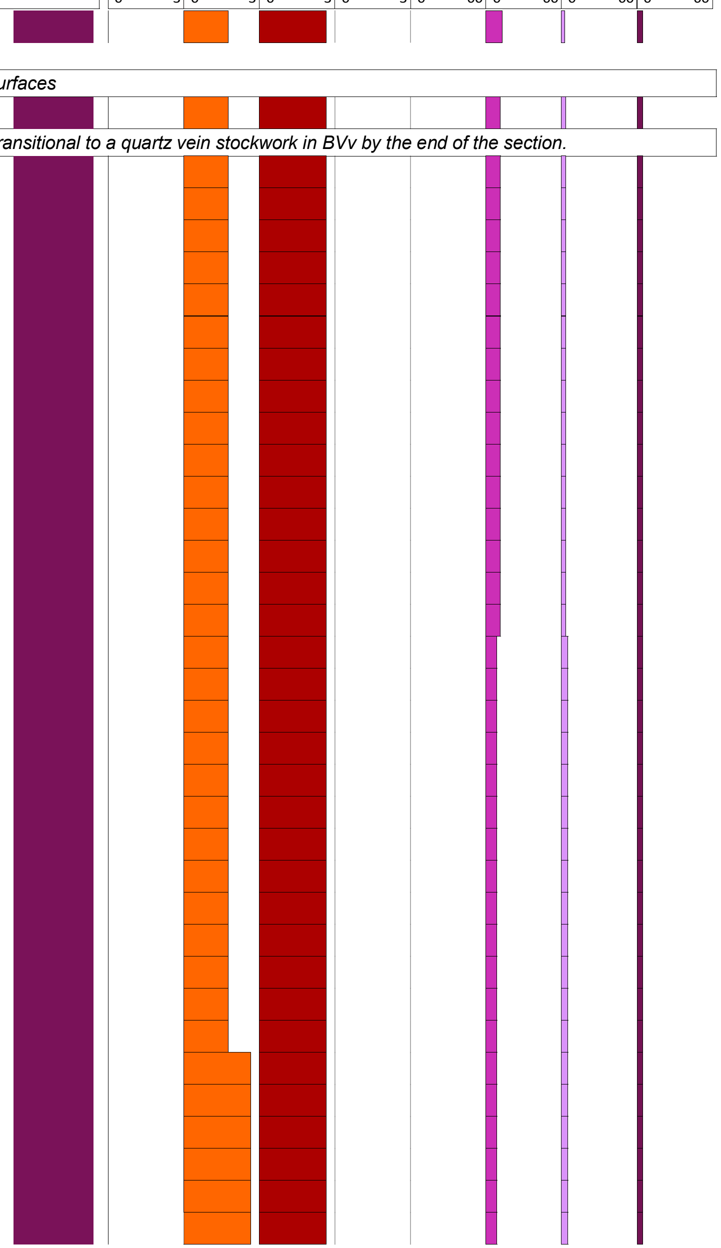
Project: Red Dog **Hole Number:** RD16-02

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)



18.00

18-3820: QMP 18.3-20: QMP limonite on fracture surfaces

20.00

20 - 138: As above becoming transitional to a quartz vein stockwork in BVv by the end of the section.

22.00, 24.00, 26.00, 28.00, 30.00, 32.00, 34.00, 36.00, 38.00, 40.00, 42.00, 44.00, 46.00, 48.00, 50.00, 52.00, 54.00, 56.00, 58.00, 60.00, 62.00, 64.00, 66.00, 68.00, 70.00, 72.00, 74.00, 76.00, 78.00, 80.00, 82.00, 84.00

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
18.00	20.00	2.00	N253060	0.7	0.841	4257.8	82
20.00	22.00	2.00	N253061	0.9	0.86	4239.7	88.9
22.00	24.00	2.00	N253062	0.9	0.862	4912.7	159.8
24.00	26.00	2.00	N253063	0.8	0.948	5911.2	79.1
26.00	28.00	2.00	N253064	0.6	0.579	4170.7	157.4
28.00	30.00	2.00	N253065	0.7	0.53	3578.3	76.6
30.00	32.00	2.00	N253066	0.8	0.724	4043.3	42.4
30.00	32.00	2.00	N253067	0.7	0.705	3907	39.7
32.00	34.00	2.00	N253068	1.1	0.613	4796.2	67.7
34.00	36.00	2.00	N253069	0.7	0.592	3954.3	96.9
36.00	38.00	2.00	N253070	0.6	0.552	4661.1	53.1
38.00	40.00	2.00	N253071	0.6	0.527	4494.7	119.4
40.00	42.00	2.00	N253073	0.4	0.378	2566.9	94.5
42.00	44.00	2.00	N253074	0.9	0.448	5805.5	82.8
44.00	46.00	2.00	N253075	0.9	0.543	3693.4	90.2
46.00	48.00	2.00	N253076	0.7	0.772	4237.2	79.5
48.00	50.00	2.00	N253077	0.4	0.514	2950.6	120.4
50.00	52.00	2.00	N253078	0.5	0.507	2830	66.2
52.00	54.00	2.00	N253079	0.5	0.647	3331.4	45.7
54.00	56.00	2.00	N253080	0.5	0.381	3054.5	30
56.00	58.00	2.00	N253082	0.4	0.375	2309.6	28
58.00	60.00	2.00	N253083	1	0.753	3711.7	28.4
60.00	62.00	2.00	N253084	0.6	0.693	3827.2	49.1
62.00	64.00	2.00	N253085	0.7	0.776	4185.4	24.7
64.00	66.00	2.00	N253086	0.4	0.542	2792.1	37
66.00	68.00	2.00	N253087	0.6	0.875	3827.7	34.1
68.00	70.00	2.00	N253088	0.5	0.568	2997.7	43.5
68.00	70.00	2.00	N253089	0.5	0.67	3402.7	54.1
70.00	72.00	2.00	N253090	0.9	0.96	4012.8	39.9
72.00	74.00	2.00	N253091	0.2	0.452	2603.2	37.1
74.00	76.00	2.00	N253092	0.4	0.418	2169.7	23.1
76.00	78.00	2.00	N253094	0.5	0.641	3082.1	39.5
78.00	80.00	2.00	N253095	0.8	0.402	2835.4	18.5
80.00	82.00	2.00	N253096	1.6	0.488	3218.5	20.6
82.00	84.00	2.00	N253097	0.7	0.384	2726.7	20.5
84.00	86.00	2.00	N253098	0.9	0.61	3809.9	19

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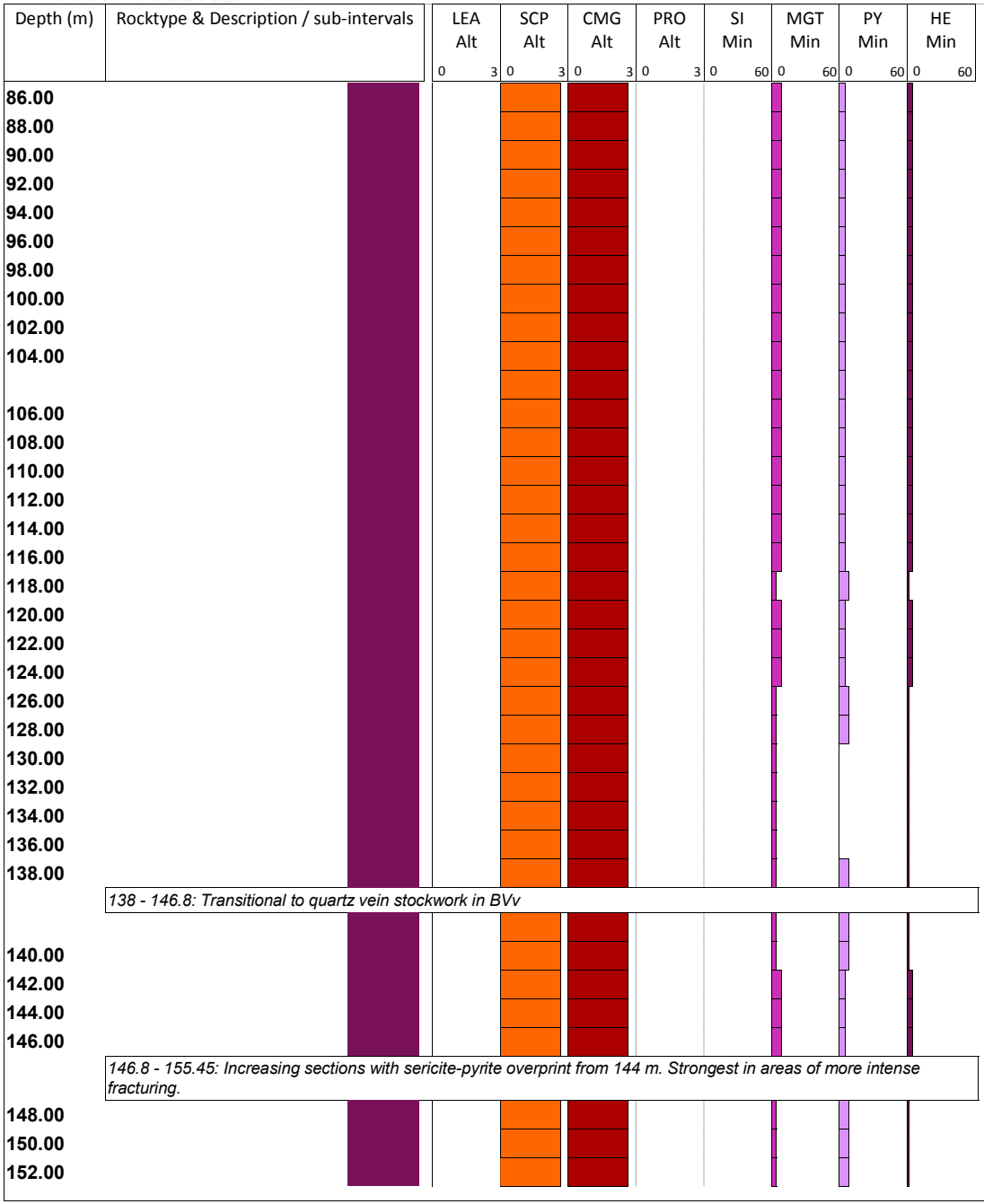
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-02



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
86.00	88.00	2.00	N253099	0.9	0.523	3563.4	31.5
88.00	90.00	2.00	N253100	0.2	0.161	874.2	38.7
90.00	92.00	2.00	N253101	0.2	0.263	2058.5	40.2
92.00	94.00	2.00	N253103	0.4	0.347	2765.2	16.1
94.00	96.00	2.00	N253104	0.3	0.301	2735.2	24.3
96.00	98.00	2.00	N253105	0.5	0.593	3426.3	26.4
98.00	100.00	2.00	N253106	0.4	0.526	3206.3	17.9
100.00	102.00	2.00	N253107	0.4	0.531	5046.1	42.9
102.00	104.00	2.00	N253108	0.6	0.407	2811.2	26.7
104.00	106.00	2.00	N253109	0.5	0.35	2707.5	24.2
104.00	106.00	2.00	N253110	0.4	0.378	2557.9	30.3
106.00	108.00	2.00	N253111	0.8	0.519	2945.6	23.8
108.00	110.00	2.00	N253112	0.8	0.422	2556.4	41.7
110.00	112.00	2.00	N253113	0.7	0.435	3232.8	27.9
112.00	114.00	2.00	N253114	0.5	0.317	3172.7	18
114.00	116.00	2.00	N253115	0.6	0.371	3536.6	21.9
116.00	118.00	2.00	N253116	0.6	0.399	4288.1	62.3
118.00	120.00	2.00	N253118	1.1	0.504	5336.5	18.7
120.00	122.00	2.00	N253119	1	0.49	3922	27.2
122.00	124.00	2.00	N253120	0.5	0.226	2835.9	28.2
124.00	126.00	2.00	N253121	0.5	0.382	3303.5	22.5
126.00	128.00	2.00	N253122	0.4	0.348	3506.5	23.6
128.00	130.00	2.00	N253124	0.3	0.275	2108.1	28.5
130.00	132.00	2.00	N253125	0.6	0.278	1889.3	24.7
132.00	134.00	2.00	N253126	0.5	0.383	1912.6	26.3
134.00	136.00	2.00	N253127	0.4	0.376	2178.3	25.5
136.00	138.00	2.00	N253128	0.2	0.37	2156.2	23.8
138.00	140.00	2.00	N253129	0.3	0.294	2783.1	26.3
138.00	140.00	2.00	N253130	0.2	0.308	2470.1	28.6
140.00	142.00	2.00	N253131	0.2	0.268	1843.8	27.1
142.00	144.00	2.00	N253132	0.4	0.367	3087.9	26.1
144.00	146.00	2.00	N253133	0.3	0.313	2426	20.4
146.00	148.00	2.00	N253134	0.4	0.649	1801.1	20.5
148.00	150.00	2.00	N253135	0.2	0.363	2085.9	40.8
150.00	152.00	2.00	N253137	-0.05	0.119	1706.3	16.6
152.00	154.00	2.00	N253138	-0.05	0.129	1319.2	17.3

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-02

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt 0 3	SCP Alt 0 3	CMG Alt 0 3	PRO Alt 0 3	SI Min 0 60	MGT Min 0 60	PY Min 0 60	HE Min 0 60	From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	
154.00										154.00	155.45	1.45	N253139	-0.05	0.071	1565.4	9.9	

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-03

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	19/07/2016
Easting:	572306.77	Azimuth:	177	Date Completed:	22/07/2016
Northing:	5617978.7	Dip:	-45	Drill Company:	Kluane
Elevation (m):	464.03	Length (m):	120.4	Drill Rig:	
Hole Type:	DD			Drill Started:	17/07/2016
Hole Diameter:				Drill Completed:	19/09/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-44.8	159.2	17.25	176.45	ReflexEZS	Unknown	19/07/2016	5589	☑	Reading suspect
40	-44.8	166.1	17.25	183.35	ReflexEZS	Unknown	19/07/2016	5670	☐	Reading suspect
60	-45.1	159.2	17.25	176.45	ReflexEZS	Unknown	19/07/2016	5396	☑	
80	-45	151.6	17.25	168.85	ReflexEZS	Unknown	19/07/2016	5737	☐	Reading suspect
100	-44.9	157.6	17.25	174.85	ReflexEZS	Unknown	19/07/2016	5490	☑	Reading suspect
120	-45	163.7	17.25	180.95	ReflexEZS	Unknown	19/07/2016	5442	☐	Reading suspect

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)
0.00	**CASE**								
	0-1.22:CASE								
2.00	**BVv**								
	1.22 - 5.1: Andesite tuff-breccia with later brecciation. Some fragsments of rose porphyry.								
4.00									
6.00									
8.00									
10.00									
12.00									
14.00									
16.00	**RDP**								
	15 - 24.38: Light grey green coloured hornblende feldspar porphyry. Feldspars form tabular phenocrysts with lesser, finer grained hornblende. Weak to moderate propylitic alteration and minor disseminated pyrite and lesser dry fractures filled with pyrite. Rock previously described as HFPr, but is part of the Red Dog Intrusive suite.								

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
1.22	2.00	0.78	N253140	0.8	0.421	3636.6	64.3
2.00	4.00	2.00	N253141	1.4	1.232	4936.9	86.7
4.00	6.00	2.00	N253142	1.1	1.169	4558.6	136.7
6.00	8.00	2.00	N253143	1.4	0.543	4583.3	85.1
8.00	10.00	2.00	N253144	1	0.834	6015.6	95.7
10.00	12.00	2.00	N253145	0.6	0.598	3245.8	57.6
12.00	14.00	2.00	N253147	0.8	0.555	2930	66.7
14.00	16.00	2.00	N253148	1.5	0.836	2264	95.3
16.00	18.00	2.00	N253149	0.1	0.036	716.5	11

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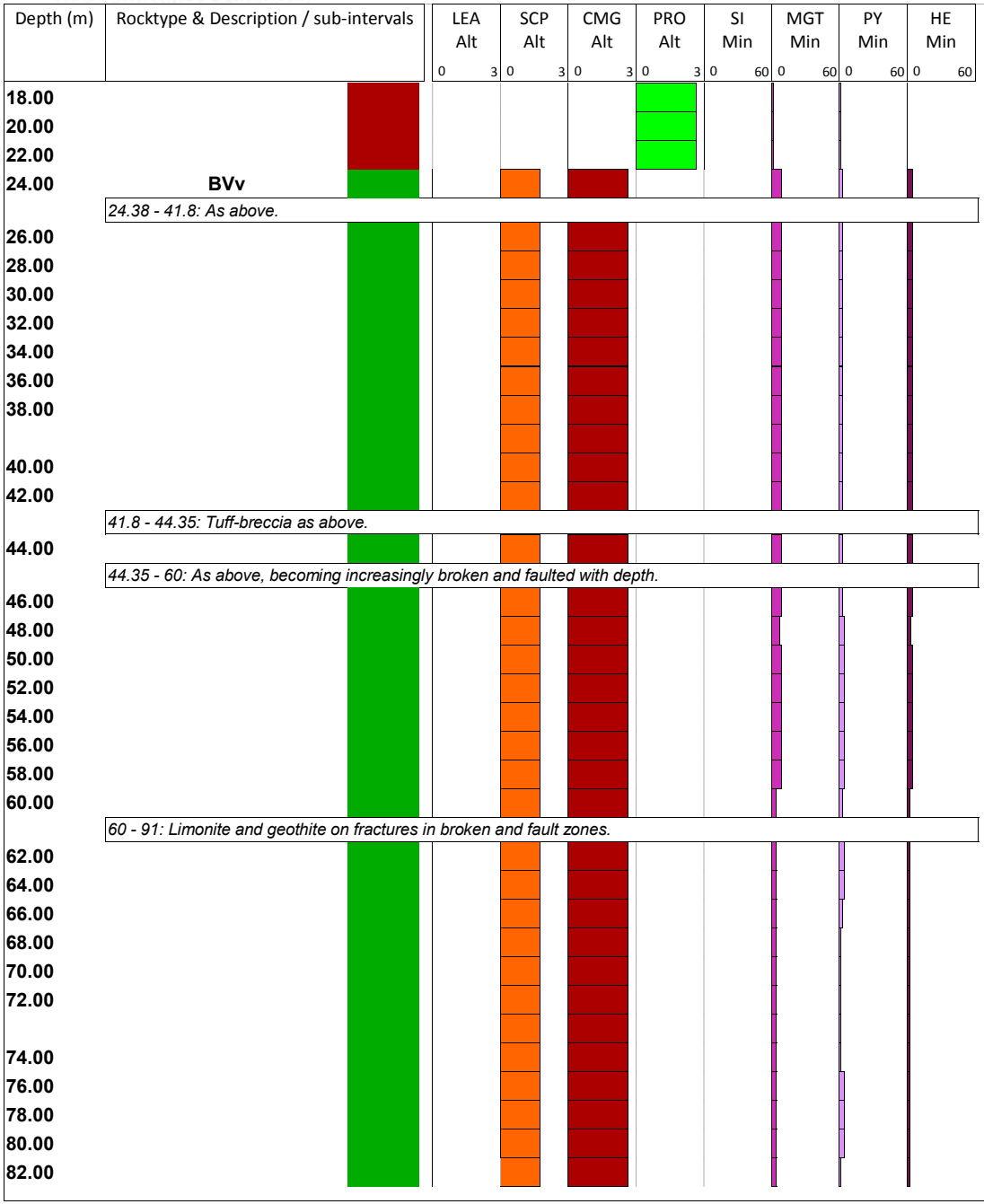
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-03



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
18.00	20.00	2.00	N253150	0.2	0.042	419	22.5
20.00	22.00	2.00	N253151	3.8	0.051	924.9	20.2
22.00	24.00	2.00	N253152	0.4	0.034	1054.3	16.7
24.00	26.00	2.00	N253154	0.6	0.525	3769.8	76.1
26.00	28.00	2.00	N253155	0.5	0.367	2722.6	55.5
28.00	30.00	2.00	N253156	0.5	0.733	3154.8	78.4
30.00	32.00	2.00	N253157	0.4	0.681	2960.1	76.2
32.00	34.00	2.00	N253158	0.6	0.664	3987.2	74.6
34.00	36.00	2.00	N253159	0.5	0.58	3222.4	67.5
36.00	38.00	2.00	N253160	0.9	0.543	3229.6	61.9
38.00	40.00	2.00	N253161	0.6	0.476	2493.8	98.1
38.00	40.00	2.00	N253162	0.6	0.549	2653.9	69.6
40.00	42.00	2.00	N253163	0.4	0.74	3067.6	92.9
42.00	44.00	2.00	N253164	0.5	0.716	2804.2	56.3
44.00	46.00	2.00	N253165	0.4	0.614	2651.6	47.1
46.00	48.00	2.00	N253166	0.5	0.703	3889.6	66
48.00	50.00	2.00	N253167	0.7	0.79	4265.4	64.6
50.00	52.00	2.00	N253168	0.4	0.478	3546.8	92.2
52.00	54.00	2.00	N253169	0.5	0.471	4298.2	68
54.00	56.00	2.00	N253170	0.3	0.449	2179.4	77.5
56.00	58.00	2.00	N253171	0.4	0.535	2692.5	27.6
58.00	60.00	2.00	N253172	0.4	0.504	2557.1	36
60.00	62.00	2.00	N253174	0.7	0.444	3193.3	134.8
62.00	64.00	2.00	N253175	0.8	0.68	3348.1	69.7
64.00	66.00	2.00	N253176	0.5	0.362	2402.2	64.9
66.00	68.00	2.00	N253177	0.4	0.542	2499	24.2
68.00	70.00	2.00	N253179	0.4	0.451	2480.6	32.3
70.00	72.00	2.00	N253180	0.3	0.256	1286.7	20
72.00	74.00	2.00	N253181	0.3	0.3	2951	61
72.00	74.00	2.00	N253182	0.3	0.363	2576.4	54.5
74.00	76.00	2.00	N253183	0.3	0.495	1939.4	30.3
76.00	78.00	2.00	N253184	0.3	0.446	2588.9	40.1
78.00	80.00	2.00	N253185	0.4	0.232	1194.2	57.9
80.00	82.00	2.00	N253186	0.5	0.409	2368.2	51.2
82.00	84.00	2.00	N253187	0.4	0.321	2451.9	42.4

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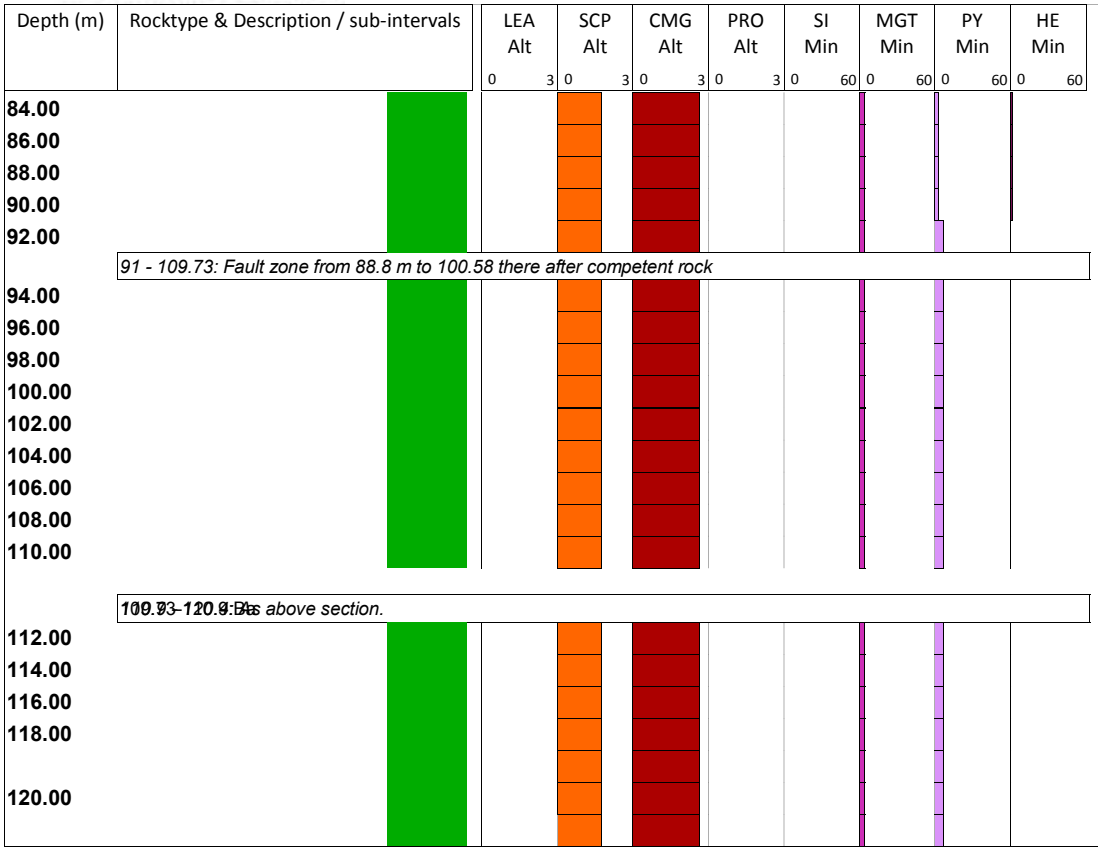
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-03



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
84.00	86.00	2.00	N253188	0.3	0.301	2325.4	18.9
86.00	88.00	2.00	N253189	0.4	0.332	2183.2	20.8
88.00	90.00	2.00	N253190	0.4	0.395	3109.5	23.8
90.00	92.00	2.00	N253191	0.3	0.268	2931.4	32.5
92.00	94.00	2.00	N253192	0.4	0.195	1518.3	17.5
94.00	96.00	2.00	N253193	0.2	0.208	2222.1	20.8
96.00	98.00	2.00	N253194	0.2	0.212	2052.8	25.7
98.00	100.00	2.00	N253195	0.2	0.174	1297.3	20.7
100.00	102.00	2.00	N253196	0.3	0.287	3394.3	9
102.00	104.00	2.00	N253197	0.3	0.488	2479.3	12.9
104.00	106.00	2.00	N253198	0.3	0.346	1525.3	8.4
106.00	108.00	2.00	N253199	0.2	0.178	791.1	10.3
108.00	110.00	2.00	N253201	0.3	0.314	951.1	10.8
110.00	112.00	2.00	N253202	0.3	0.165	1127.7	7.7
112.00	114.00	2.00	N253203	0.2	0.133	1843	15.9
114.00	116.00	2.00	N253205	0.2	0.36	1235.5	10.9
116.00	118.00	2.00	N253206	0.1	0.129	768.1	11.7
118.00	120.40	2.40	N253207	-0.05	0.152	1548.7	11.4
120.00	120.40	2.40	N253208	-0.05	0.15	1358.4	8

NORTHISLE COPPER AND GOLD INC.

GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-04

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	20/07/2016
Easting:	5617717.64	Azimuth:	180	Date Completed:	27/07/2016
Northing:	572604.55	Dip:	-90	Drill Company:	Kluane
Elevation (m):	372.79	Length (m):	150.88	Drill Rig:	
Hole Type:	DD			Drill Started:	19/07/2016
Hole Diameter:				Drill Completed:	24/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0 3)	SCP Alt (0 3)	CMG Alt (0 3)	PRO Alt (0 3)	SI Min (0 60)	MGT Min (0 60)	PY Min (0 60)	HE Min (0 60)
0.00	**CASE**								
	0 - 4.27: Overburden composed of blocks of CMG altered BVv and wood fragments from road fill.								
2.00									
4.00	**FP**								
	4.27 - 49.5: White coloured feldspar porphyry consisting of broken to tabular feldspar phenocrysts in a felted matrix of very fine grained feldspar and quartz. Jarositic to limonitic capping due to intense weathering. Strong SCP with Argillic alteration overprinting makes original provinance of the rock difficult to determine. No noticeable quartz eyes.								
6.00									
8.00									
10.00									
12.00									
14.00									
16.00									
18.00									
20.00									
22.00									
24.00									
26.00									
28.00									
30.00									
32.00									
34.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
4.00	6.00	2.00	N253209	0.2	0.209	206.7	27.9
6.00	8.00	2.00	N253210	0.4	0.197	156.9	24.7
8.00	10.00	2.00	N253211	0.4	0.395	306.1	27.2
10.00	12.00	2.00	N253212	0.5	0.699	503.5	22.1
12.00	14.00	2.00	N253213	0.3	0.353	362.7	23.1
14.00	16.00	2.00	N253214	0.4	0.238	180.7	20.9
16.00	18.00	2.00	N253215	0.2	0.371	264.8	13.7
18.00	20.00	2.00	N253217	0.3	0.641	403.5	15.4
20.00	22.00	2.00	N253218	0.1	0.341	100.1	16.8
22.00	24.00	2.00	N253219	0.4	0.343	285.3	19.8
24.00	26.00	2.00	N253221	0.1	0.153	51.1	13.3
26.00	28.00	2.00	N253222	0.1	0.296	87	10.7
28.00	30.00	2.00	N253223	0.2	0.261	159.9	12.3
30.00	32.00	2.00	N253224	-0.05	0.279	115.8	7.6
32.00	34.00	2.00	N253225	0.2	0.365	212.7	7
34.00	36.00	2.00	N253226	0.2	0.265	206.3	6.4

NORTHISLE COPPER AND GOLD INC.

GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-04

Depth (m)	Rocktype & Description / sub-intervals
36.00	
38.00	
40.00	
42.00	
44.00	
46.00	
48.00	
50.00	
	49.5 - 65.5: As above except fresh. Lower contact is a fault.
52.00	
54.00	
56.00	
58.00	
60.00	
62.00	
64.00	
66.00	**BVv**
	65.5 - 71.3: Upper contact is fault. Rock is pale green grey Bonanza Volcanic tuff to breccia. Strong alteration makes primary features difficult to recognize. Green colour due to chloritic alteration. Rock looks like chlorite - sericite alteration: intermediate argillic. Non magnetic rock. Lower contact is a fault zone. Quartz stockwork ends at faulted contact.
68.00	
70.00	
72.00	**FP**
	71.3 - 76.5: Fine grained porphyritic rock. Could be a tuff or a flow within the Bonanza Volcanic unit. Appears to have clasts / fragments / xenoliths of BVv incorporated in to it. Both contacts are fault breccia.
74.00	
76.00	**BVv**
	76.5 - 150.88: Strong advanced argillic alteration obliterates the primary features of the rock. Mainly fine grained tuff with sections of tuff - breccia.
78.00	
80.00	
82.00	
84.00	
86.00	
88.00	
90.00	
92.00	
94.00	

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
36.00	38.00	2.00	N253227	0.3	0.194	239.6	5.8
38.00	40.00	2.00	N253228	0.1	0.176	163.3	8.6
38.00	40.00	2.00	N253229	0.1	0.196	161.3	8.2
40.00	42.00	2.00	N253230	1.3	0.094	82.3	26.5
42.00	44.00	2.00	N253231	0.2	0.159	168.5	39.6
44.00	46.00	2.00	N253232	0.3	0.118	68	19.7
46.00	48.00	2.00	N253233	0.4	0.396	400.9	47.3
48.00	50.00	2.00	N253234	0.5	0.23	384.7	30.5
50.00	52.00	2.00	N253235	0.1	0.126	269.6	8.8
52.00	54.00	2.00	N253236	0.2	0.106	624.9	28.3
54.00	56.00	2.00	N253237	-0.05	0.126	490.2	146.8
56.00	58.00	2.00	N253238	-0.05	0.155	468.7	102.8
58.00	60.00	2.00	N253240	-0.05	0.106	701.6	58.8
60.00	62.00	2.00	N253241	0.2	0.235	2374.3	54.8
62.00	64.00	2.00	N253242	0.8	0.52	3763.3	53.4
64.00	66.00	2.00	N253243	1	0.429	3170	73
66.00	68.00	2.00	N253245	2.1	0.583	4480.1	56.9
68.00	70.00	2.00	N253246	1.1	0.258	1902.4	60.4
70.00	72.00	2.00	N253247	0.4	0.174	980.5	16.1
72.00	74.00	2.00	N253248	0.2	0.075	617.6	10.3
72.00	74.00	2.00	N253249	0.3	0.084	593.7	8.9
74.00	76.00	2.00	N253250	0.2	0.05	419.6	14.6
76.00	78.00	2.00	N253251	0.1	0.065	821.4	5.9
78.00	80.00	2.00	N253252	-0.05	0.034	617.3	4.3
80.00	82.00	2.00	N253253	-0.05	0.032	727.4	4.5
82.00	84.00	2.00	N253254	-0.05	0.018	358.8	4.1
84.00	86.00	2.00	N253255	0.1	0.049	539.1	3.9
86.00	88.00	2.00	N253256	0.1	0.036	235.9	9.8
88.00	90.00	2.00	N253257	0.1	0.034	212.2	6.4
90.00	92.00	2.00	N253258	0.1	0.037	250.6	5.9
92.00	94.00	2.00	N253259	-0.05	0.027	136	11.8
94.00	96.00	2.00	N253260	-0.05	0.087	140.7	3.7

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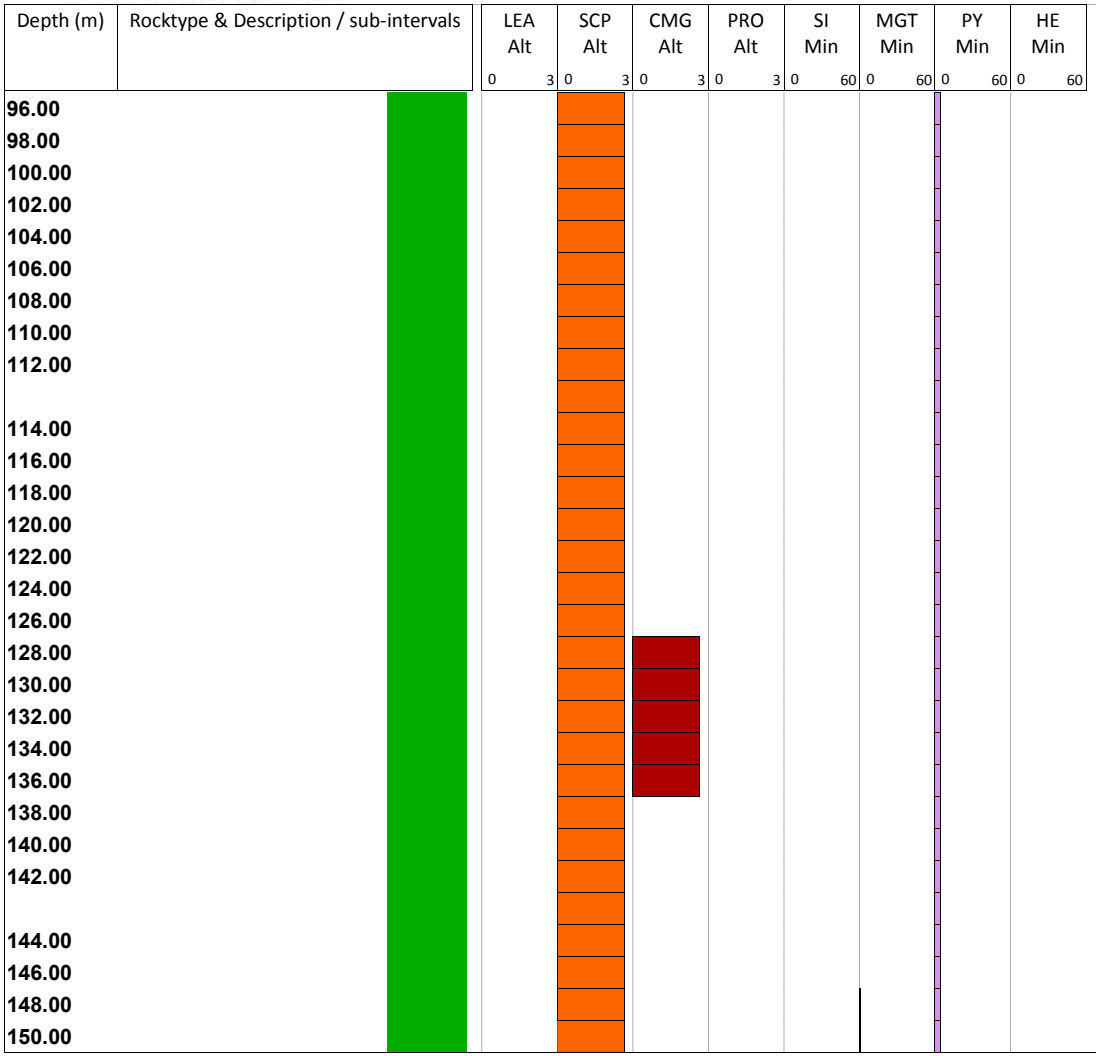
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-04



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
96.00	98.00	2.00	N253262	0.5	0.025	286.4	4.4
98.00	100.00	2.00	N253263	-0.05	0.026	448	2.4
100.00	102.00	2.00	N253264	0.2	0.035	451.6	8.6
102.00	104.00	2.00	N253265	0.2	0.05	1811.2	39.2
104.00	106.00	2.00	N253266	0.1	0.051	977.2	22.1
106.00	108.00	2.00	N253267	0.1	0.029	1141.6	33.4
108.00	110.00	2.00	N253269	0.1	0.055	1164.2	54.9
110.00	112.00	2.00	N253270	-0.05	0.029	456.1	27.7
112.00	114.00	2.00	N253271	-0.05	0.045	1442.8	79.6
112.00	114.00	2.00	N253272	-0.05	0.05	1526.2	80.2
114.00	116.00	2.00	N253273	-0.05	0.024	343.7	37.1
116.00	118.00	2.00	N253274	-0.05	0.049	483.7	46.3
118.00	120.00	2.00	N253275	-0.05	0.07	1079.4	8.5
120.00	122.00	2.00	N253276	-0.05	0.028	598	10.8
122.00	124.00	2.00	N253277	-0.05	0.055	522.7	13.9
124.00	126.00	2.00	N253278	-0.05	0.046	531	9
126.00	128.00	2.00	N253279	-0.05	0.034	718.3	13.4
128.00	130.00	2.00	N253280	0.2	0.055	837.1	32.5
130.00	132.00	2.00	N253281	0.1	0.077	656.8	28.7
132.00	134.00	2.00	N253282	0.2	0.071	623.6	37
134.00	136.00	2.00	N253283	0.2	0.073	974.2	38.7
136.00	138.00	2.00	N253285	-0.05	0.097	942.2	28.8
138.00	140.00	2.00	N253286	0.2	0.083	1532.8	51.2
140.00	142.00	2.00	N253287	0.2	0.075	1336.9	77.9
142.00	144.00	2.00	N253289	-0.05	0.13	1133.4	91
142.00	144.00	2.00	N253290	-0.05	0.175	1044.4	98.1
144.00	146.00	2.00	N253291	-0.05	0.088	944.9	86.8
146.00	148.00	2.00	N253292	0.1	0.071	960	43.8
148.00	150.88	2.88	N253293	200	0.076	3429.9	50

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	25/07/2016
Easting:	5617739.01	Azimuth:	180	Date Completed:	31/07/2016
Northing:	572598.34	Dip:	-90	Drill Company:	Kluane
Elevation (m):	374.43	Length (m):	124	Drill Rig:	
Hole Type:	DD			Drill Started:	24/07/2016
Hole Diameter:				Drill Completed:	28/07/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
50.29	-89.6	8.6	17.25	25.85	ReflexEZS	Unknown	25/07/2016	5389	☑	
100	-89	34.6	17.25	51.85	ReflexEZS	Unknown	26/07/2016	5425	☑	

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)
0.00	**CASE**								
2.00									
4.00	**BVv**								
	3.05 - 36.7: Bonanza Volcanics; tuff-breccia. Texture obscured by intense SCP alteration and subsequent leaching.								
6.00									
8.00									
10.00									
12.00									
14.00									
16.00									
18.00									
20.00									
22.00									
24.00									
26.00									
28.00									
30.00									
32.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm

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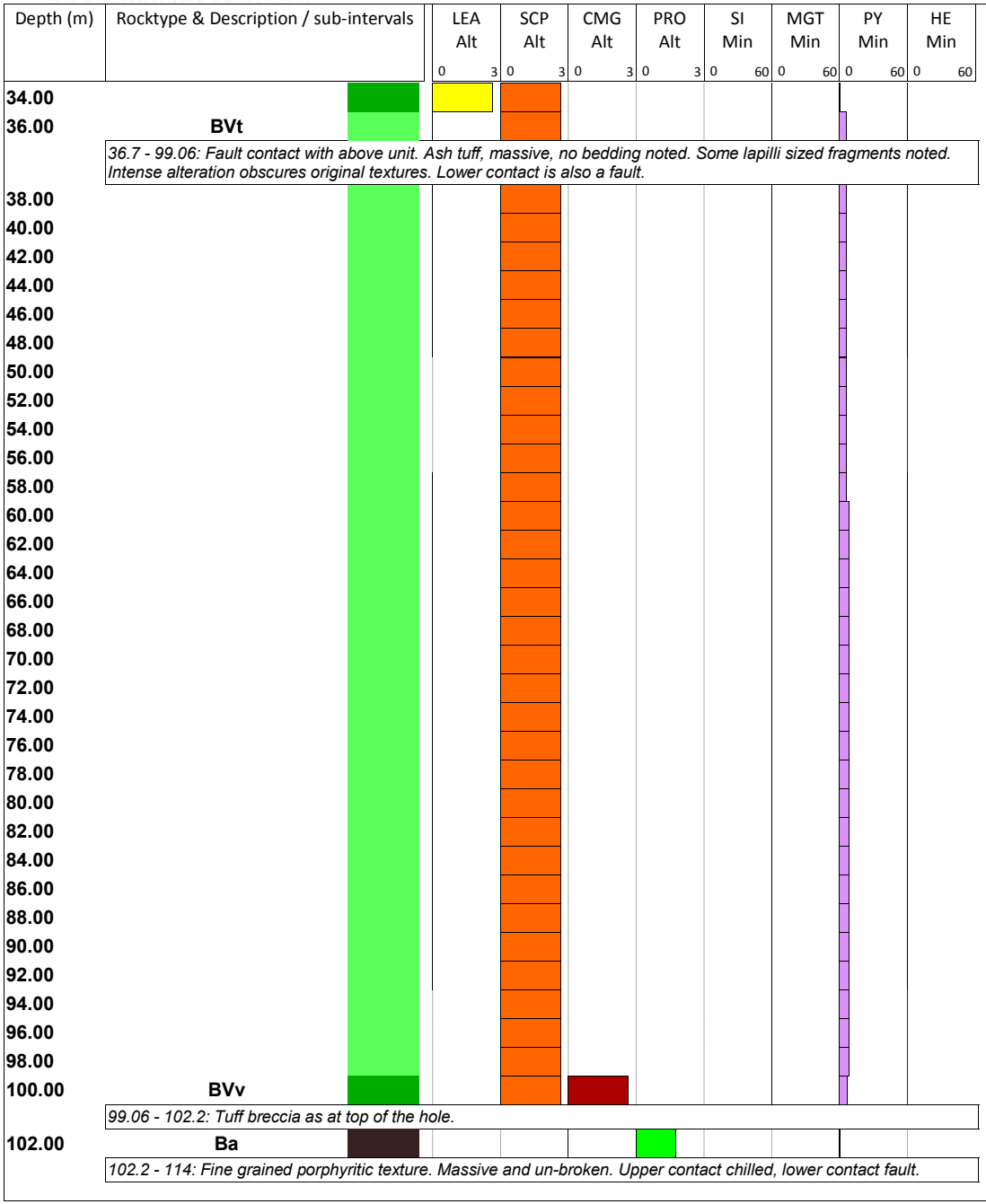
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	

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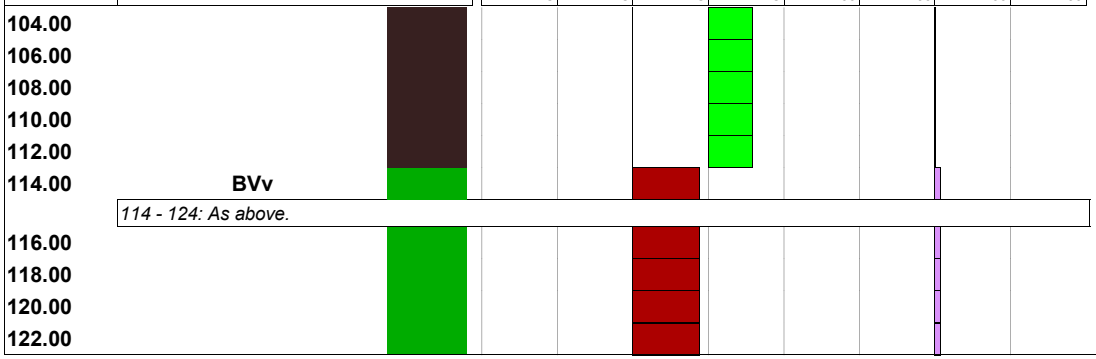
GeoSpark Logger ~ Strip Log

Project: **Red Dog** **Hole Number:** **RD16-05**



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05A

Prospect:		Survey Type:	DGPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	08/08/2016
Easting:	572591.81	Azimuth:	180	Date Completed:	15/09/2016
Northing:	5617767.02	Dip:	-90	Drill Company:	Kluane
Elevation (m):	376.85	Length (m):	207.77	Drill Rig:	
Hole Type:	DD			Drill Started:	06/08/2016
Hole Diameter:				Drill Completed:	13/08/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑	Cave at end of hole. From 205.44 m to E.O.H mostly cave with fractured rock.			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
20	-89.8	93	17.25	110.25	ReflexEZS	Unknown	10/08/2016	5432	☑	
50	-89.5	94.4	17.25	111.65	ReflexEZS	Unknown	10/08/2016	5432	☑	
80	-89.4	149.7	17.25	166.95	ReflexEZS	Unknown	11/08/2016	5422	☑	
150	-88.8	120.4	17.25	137.65	ReflexEZS	Unknown	13/08/2016	5377	☑	
180	-88.7	124.1	17.25	141.35	ReflexEZS	Unknown	14/08/2016	5455	☑	

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt (0–3)	SCP Alt (0–3)	CMG Alt (0–3)	PRO Alt (0–3)	SI Min (0–60)	MGT Min (0–60)	PY Min (0–60)	HE Min (0–60)
0.00	**CASE**								
2.00									
4.00	**BVv**								
	3.05 - 7.62: Weathered and leached zone at top of the hole. Host is tuff breccia rebroken and brecciated by faulting.								
6.00									
8.00									
	7.62 - 57.61: As above without leaching and oxidation.								
10.00									
12.00									
14.00									
16.00									
18.00									
20.00									
22.00									
24.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
3.05	6.00	2.95	N253379	0.6	0.251	647.9	19.2
6.00	8.00	2.00	N253380	0.2	0.004	557.2	1.8
8.00	10.00	2.00	N253381	0.4	0.079	1216.1	99.7
10.00	12.00	2.00	N253382	0.3	0.056	610.6	12.2
12.00	14.00	2.00	N253384	0.2	0.047	541.4	45.6
14.00	16.00	2.00	N253385	0.2	0.039	911.9	54.1
16.00	18.00	2.00	N253386	0.2	0.036	641.3	47.8
18.00	20.00	2.00	N253387	0.2	0.027	770.2	33.4
20.00	22.00	2.00	N253388	0.7	0.04	660.4	29.8
22.00	24.00	2.00	N253389	0.2	0.041	594.5	16.7
24.00	26.00	2.00	N253390	1.3	0.083	2223	22.4

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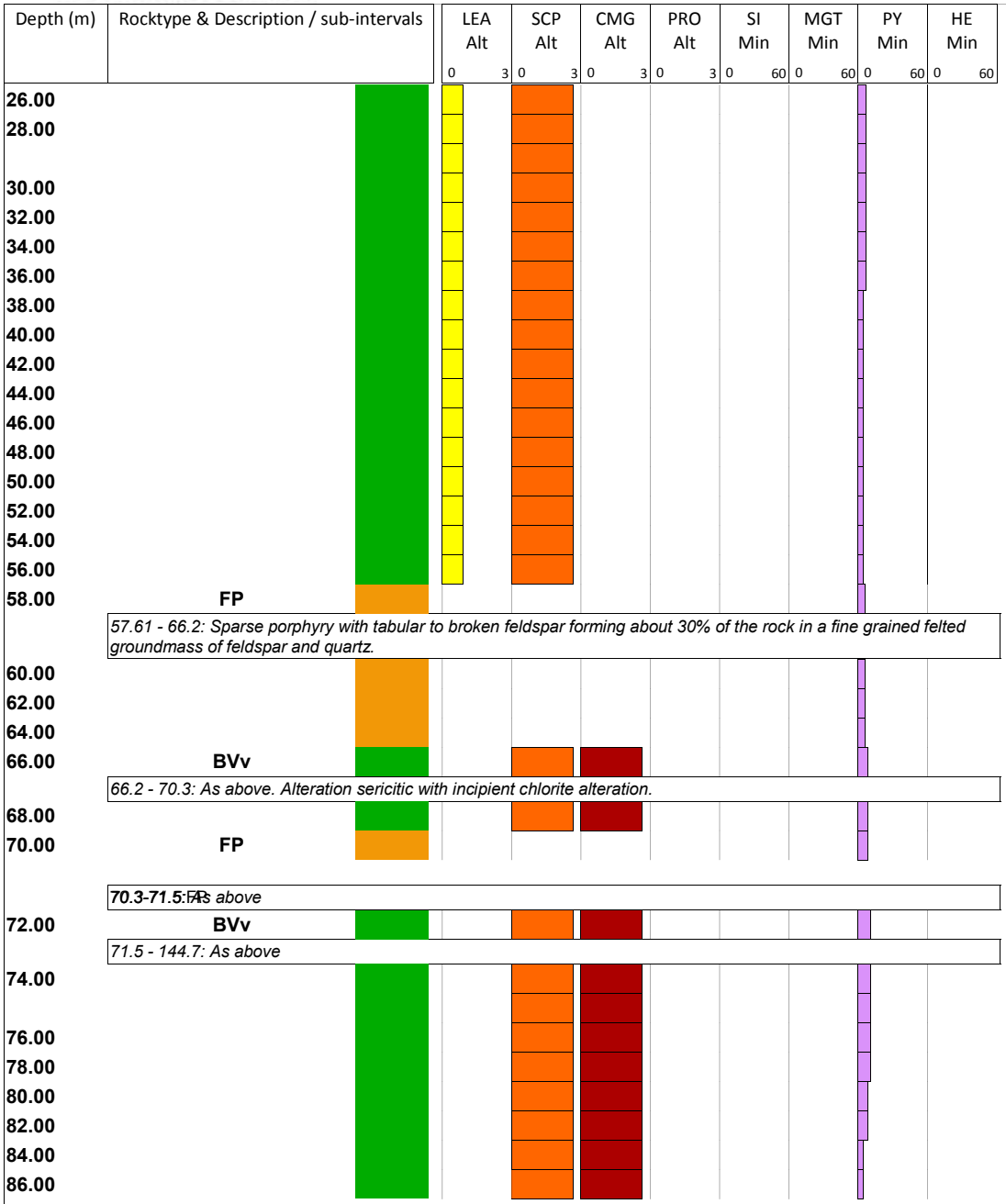
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05A



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
26.00	28.00	2.00	N253391	0.2	0.071	981	71.3
28.00	30.00	2.00	N253392	0.2	0.045	910.9	20.9
28.00	30.00	2.00	N253393	0.2	0.047	892.4	18
30.00	32.00	2.00	N253394	0.2	0.038	505.9	18.8
32.00	34.00	2.00	N253395	0.1	0.034	390	15.1
34.00	36.00	2.00	N253396	-0.05	0.034	228.6	13.1
36.00	38.00	2.00	N253397	0.1	0.047	340.3	22.3
38.00	40.00	2.00	N253399	0.2	0.034	277.9	16.4
40.00	42.00	2.00	N254000	0.1	0.043	415.8	39.7
42.00	44.00	2.00	N254001	0.2	0.054	554.5	32.3
44.00	46.00	2.00	N254002	0.1	0.063	367.3	130.6
46.00	48.00	2.00	N254003	-0.05	0.035	141.5	17.4
48.00	50.00	2.00	N254004	-0.05	0.045	195.7	13.9
50.00	52.00	2.00	N254005	-0.05	0.058	226.6	21.4
52.00	54.00	2.00	N254006	-0.05	0.054	253	47.9
54.00	56.00	2.00	N254007	-0.05	0.035	137.5	6.8
56.00	58.00	2.00	N254009	0.8	0.068	129.2	17.2
58.00	60.00	2.00	N254010	-0.05	0.012	23.5	6.3
60.00	62.00	2.00	N254011	-0.05	0.013	53.1	14.4
62.00	64.00	2.00	N254012	-0.05	0.017	29	5.7
64.00	66.00	2.00	N254013	-0.05	0.007	28.7	6.9
66.00	68.00	2.00	N254014	-0.05	0.029	217.1	5.3
68.00	70.00	2.00	N254015	-0.05	0.028	216.3	6.5
70.00	72.00	2.00	N254017	-0.05	0.008	116.6	3.6
72.00	74.00	2.00	N254018	-0.05	0.019	175.1	3.8
74.00	76.00	2.00	N254019	0.4	0.02	105.2	5.4
74.00	76.00	2.00	N254020	-0.05	0.022	122	6.7
76.00	78.00	2.00	N254021	-0.05	0.048	157.8	9.3
78.00	80.00	2.00	N254022	-0.05	0.056	186.4	7.6
80.00	82.00	2.00	N254023	-0.05	0.037	256.1	6.2
82.00	84.00	2.00	N254024	-0.05	0.027	219.7	5.8
84.00	86.00	2.00	N254025	-0.05	0.043	322.3	7.7
86.00	88.00	2.00	N254026	-0.05	0.039	393.3	12.3

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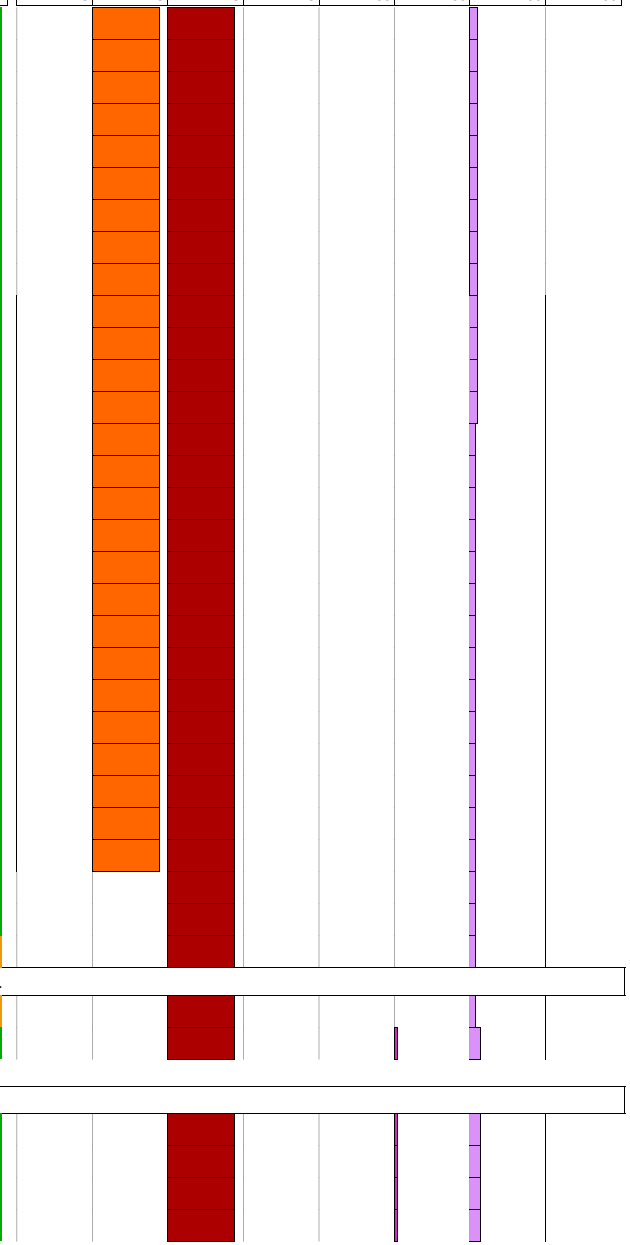
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05A



Depth (m)	Rocktype & Description / sub-intervals
88.00	
90.00	
92.00	
94.00	
96.00	
98.00	
100.00	
102.00	
104.00	
106.00	
108.00	
110.00	
112.00	
114.00	
116.00	
118.00	
120.00	
122.00	
124.00	
126.00	
128.00	
130.00	
132.00	
134.00	
136.00	
138.00	
140.00	
142.00	
144.00	**FP**
	144.7 - 147.8: As above. Contact is a fault.
146.00	
148.00	**BVv**
	147.8-148.8m: Intermediate tuff - breccia.
150.00	
152.00	
154.00	

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
88.00	90.00	2.00	N254027	-0.05	0.039	594.4	67.6
90.00	92.00	2.00	N254028	-0.05	0.056	563.3	13.9
92.00	94.00	2.00	N254029	-0.05	0.046	593.5	25.4
94.00	96.00	2.00	N254030	-0.05	0.067	753.3	24
96.00	98.00	2.00	N254031	-0.05	0.059	712.7	18.2
98.00	100.00	2.00	N254032	-0.05	0.053	804.9	10.6
100.00	102.00	2.00	N254034	-0.05	0.056	636.1	12.8
102.00	104.00	2.00	N254035	-0.05	0.058	581	10.7
102.00	104.00	2.00	N254036	-0.05	0.054	582.6	10.3
104.00	106.00	2.00	N254037	-0.05	0.087	568.9	16.9
106.00	108.00	2.00	N254038	-0.05	0.046	555.1	8.8
108.00	110.00	2.00	N254039	-0.05	0.038	344.7	6
110.00	112.00	2.00	N254040	-0.05	0.04	362.8	6.9
112.00	114.00	2.00	N254041	0.7	0.063	527.6	13.6
114.00	116.00	2.00	N254043	1.4	0.038	385.5	19.6
116.00	118.00	2.00	N254044	0.1	0.054	563.2	25.8
118.00	120.00	2.00	N254045	-0.05	0.06	521.6	15.7
120.00	122.00	2.00	N254046	-0.05	0.05	342.6	17.5
122.00	124.00	2.00	N254047	-0.05	0.026	277.9	25.8
124.00	126.00	2.00	N254048	-0.05	0.041	350.2	25.2
126.00	128.00	2.00	N254049	-0.05	0.037	458.1	32.7
128.00	130.00	2.00	N254051	-0.05	0.029	359.9	27
130.00	132.00	2.00	N254052	0.1	0.041	580.1	35.3
132.00	134.00	2.00	N254053	0.1	0.052	430.3	23.9
134.00	136.00	2.00	N254054	-0.05	0.024	348.7	21.4
136.00	138.00	2.00	N254055	3.4	0.021	309.7	22.8
138.00	140.00	2.00	N254056	121.9	0.028	653.2	23.9
140.00	142.00	2.00	N254057	0.2	0.057	612	25.7
142.00	144.00	2.00	N254059	0.2	0.021	218.7	17.3
144.00	146.00	2.00	N254060	4.4	0.02	234.9	22.6
146.00	148.00	2.00	N254061	-0.05	0.013	83.6	15.6
148.00	150.00	2.00	N254062	0.2	0.026	291.4	21.7
150.00	152.00	2.00	N254063	0.2	0.045	596.4	42.8
150.00	152.00	2.00	N254064	0.2	0.041	478.1	54.6
152.00	154.00	2.00	N254065	0.3	0.046	620.6	35.9
154.00	156.00	2.00	N254066	-0.05	0.016	246.5	22.2

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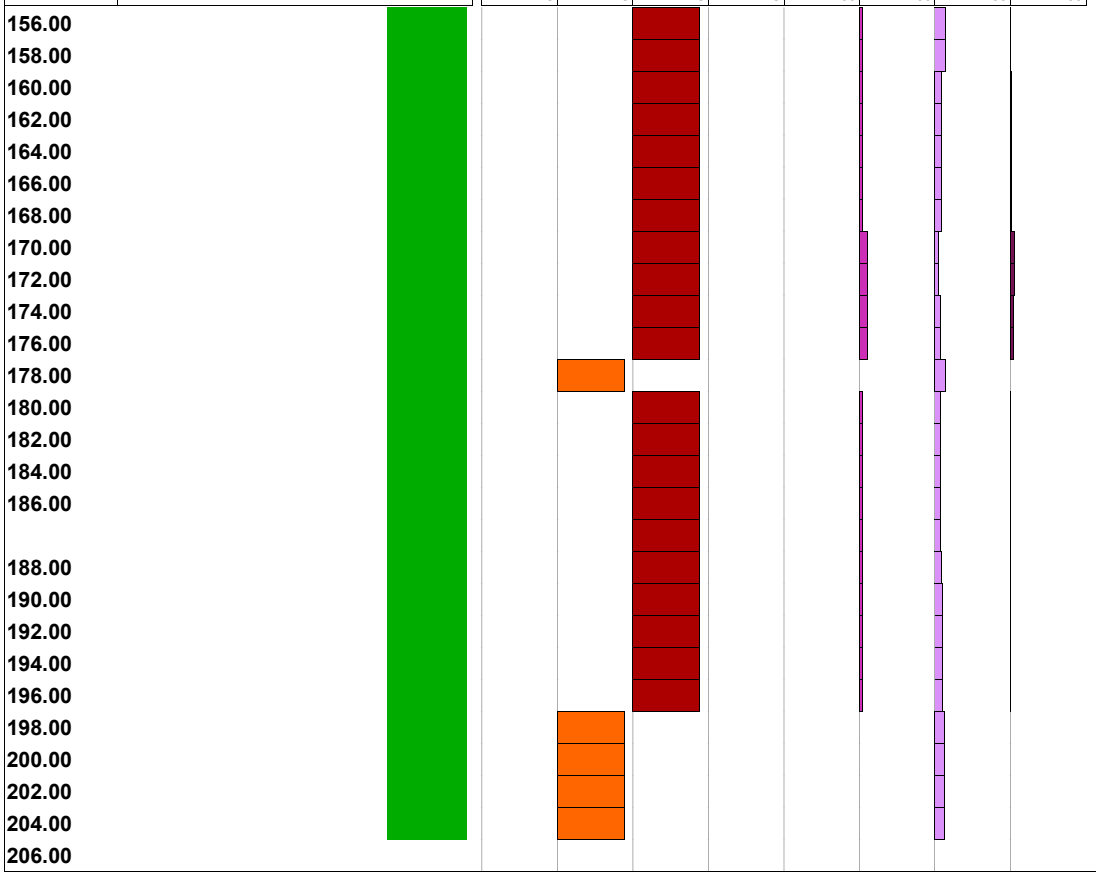
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-05A



From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
156.00	158.00	2.00	N254067	-0.05	0.022	264.5	8.4
158.00	160.00	2.00	N254068	-0.05	0.037	226.9	18.2
160.00	162.00	2.00	N254069	0.1	0.029	297.7	16
162.00	164.00	2.00	N254070	0.1	0.044	403.9	22.7
164.00	166.00	2.00	N254071	0.2	0.028	238.4	20.4
166.00	168.00	2.00	N254072	0.1	0.028	214.9	34.7
168.00	170.00	2.00	N254074	0.2	0.051	524.4	21.1
170.00	172.00	2.00	N254075	-0.05	0.024	386.3	19.4
172.00	174.00	2.00	N254076	0.1	0.055	455.4	24
174.00	176.00	2.00	N254078	0.3	0.023	206.2	13.3
176.00	178.00	2.00	N254079	0.2	0.021	219.2	9.7
178.00	180.00	2.00	N254080	0.2	0.021	187.7	14.4
180.00	182.00	2.00	N254081	-0.05	0.024	231.8	6.4
182.00	184.00	2.00	N254082	-0.05	0.019	292.7	14.2
184.00	186.00	2.00	N254083	-0.05	0.019	259.7	20.7
186.00	188.00	2.00	N254084	-0.05	0.026	308.1	6.3
186.00	188.00	2.00	N254085	0.1	0.03	280.9	9.1
188.00	190.00	2.00	N254086	-0.05	0.026	329.3	10.1
190.00	192.00	2.00	N254087	-0.05	0.026	209.5	8.4
192.00	194.00	2.00	N254088	-0.05	0.028	288.3	5.1
194.00	196.00	2.00	N254089	-0.05	0.024	283.4	9.5
196.00	198.00	2.00	N254090	-0.05	0.033	265	12.5
198.00	200.00	2.00	N254091	-0.05	0.031	184	7.8
200.00	202.00	2.00	N254093	0.2	0.022	314.5	5.6
202.00	204.00	2.00	N254094	0.1	0.027	210.8	9.3

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-06

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	29/07/2016
Easting:	572159.53	Azimuth:	177	Date Completed:	07/08/2016
Northing:	5618171.68	Dip:	-45	Drill Company:	Kluane
Elevation (m):	352.95	Length (m):	152.4	Drill Rig:	
Hole Type:	DD			Drill Started:	28/07/2016
Hole Diameter:				Drill Completed:	06/08/2016
Core Size:	HTW	Comments:			
Casing Pulled?:	☑				
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
30	-43.5	156	17.25	173.25	ReflexEZS	Unknown	06/08/2016	5276	☐	Reading suspect
60	-44.6	162.2	17.25	179.45	ReflexEZS	Unknown	06/08/2016	5398	☑	
90	-44.4	162.1	17.25	179.35	ReflexEZS	Unknown	06/08/2016	5467	☑	
120	-43.8	160.5	17.25	177.75	ReflexEZS	Unknown	06/08/2016	5381	☑	

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt 0–3	SCP Alt 0–3	CMG Alt 0–3	PRO Alt 0–3	SI Min 0–60	MGT Min 0–60	PY Min 0–60	HE Min 0–60
0.00	**CASE**								
2.00									
4.00									
6.00									
8.00									
10.00	**BVv**								
	10.75 - 30.48: This interval is a fault zone formed of fragments of QMB, BVv and lesser RDI. Much of the section is gouge and crushed rock of varing provenence.								
12.00									
14.00									
16.00									
18.00									
20.00									
22.00									

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
0.00	4.57	4.57	N253294	1.3	0.206	298.9	21.2
4.57	9.14	4.57	N253295	1.4	0.414	371.3	35.3
9.14	12.00	2.86	N253296	0.4	0.204	845.9	41.3
12.00	14.00	2.00	N253297	0.2	0.188	1383.8	85.5
14.00	16.00	2.00	N253298	0.2	0.191	1162.5	74.6
16.00	18.00	2.00	N253299	0.8	0.156	638.2	41.4
18.00	20.00	2.00	N253300	0.2	0.087	534.5	24.8
20.00	22.00	2.00	N253301	0.2	0.188	563	31.1
22.00	24.00	2.00	N253302	0.4	0.134	981.9	34.5

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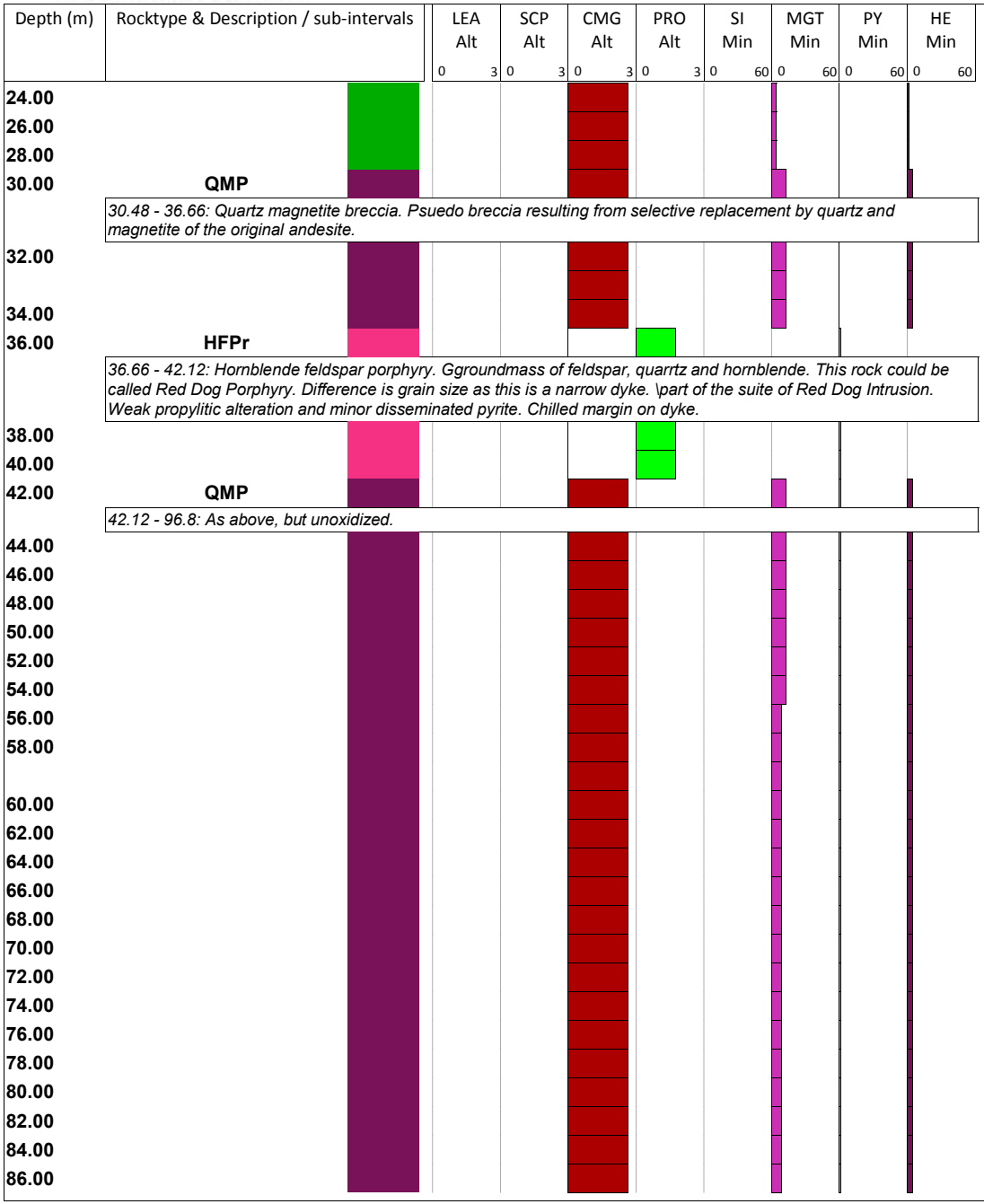
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-06



Depth (m)	Rocktype & Description / sub-intervals
24.00	
26.00	
28.00	
30.00	**QMP**
	30.48 - 36.66: Quartz magnetite breccia. Psuedo breccia resulting from selective replacement by quartz and magnetite of the original andesite.
32.00	
34.00	
36.00	**HFPr**
	36.66 - 42.12: Hornblende feldspar porphyry. Ggroundmass of feldspar, quarrtz and hornblende. This rock could be called Red Dog Porphyry. Difference is grain size as this is a narrow dyke. \part of the suite of Red Dog Intrusion. Weak propylitic alteration and minor disseminated pyrite. Chilled margin on dyke.
38.00	
40.00	
42.00	**QMP**
	42.12 - 96.8: As above, but unoxidized.
44.00	
46.00	
48.00	
50.00	
52.00	
54.00	
56.00	
58.00	
60.00	
62.00	
64.00	
66.00	
68.00	
70.00	
72.00	
74.00	
76.00	
78.00	
80.00	
82.00	
84.00	
86.00	

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
24.00	26.00	2.00	N253304	0.5	0.251	2062.2	92.7
26.00	28.00	2.00	N253305	0.6	0.219	2875.9	98.2
28.00	30.00	2.00	N253306	0.8	0.366	1442.7	113.8
30.00	32.00	2.00	N253307	0.4	1.056	5326.2	69.6
32.00	34.00	2.00	N253308	0.5	0.424	4776.1	83.3
32.00	34.00	2.00	N253309	0.4	0.559	4010.3	92.8
34.00	36.00	2.00	N253310	1.1	0.119	3466.9	87.2
36.00	38.00	2.00	N253311	0.4	0.054	1809.4	18.1
38.00	40.00	2.00	N253312	0.2	0.009	580	2.2
40.00	42.00	2.00	N253314	0.3	0.015	979.7	2.7
42.00	44.00	2.00	N253315	1.7	0.259	3389	27.1
44.00	46.00	2.00	N253316	1.7	0.268	3989.4	68.8
46.00	48.00	2.00	N253317	1.6	0.161	3083.7	68
48.00	50.00	2.00	N253318	0.7	0.279	4505.8	43.1
50.00	52.00	2.00	N253319	0.4	0.348	4363.4	95.5
52.00	54.00	2.00	N253320	0.4	0.304	2594.9	115.4
54.00	56.00	2.00	N253322	0.7	0.386	2895.9	100.2
56.00	58.00	2.00	N253323	0.7	0.38	2887.2	74.1
58.00	60.00	2.00	N253324	0.5	0.496	2599.4	44
58.00	60.00	2.00	N253325	0.5	0.537	2882	56
60.00	62.00	2.00	N253326	0.4	0.405	2716.8	43
62.00	64.00	2.00	N253327	0.4	0.376	2771.6	211.9
64.00	66.00	2.00	N253328	0.7	0.362	2673.4	83.2
66.00	68.00	2.00	N253329	0.7	0.345	2907.7	68.3
68.00	70.00	2.00	N253330	0.4	0.388	3072.7	56.1
70.00	72.00	2.00	N253332	0.3	0.559	2439.6	88.8
72.00	74.00	2.00	N253333	0.3	0.538	2519.1	228.6
74.00	76.00	2.00	N253334	0.4	0.519	2370.7	78.9
76.00	78.00	2.00	N253335	0.5	0.561	2957.2	61.1
78.00	80.00	2.00	N253336	0.3	0.365	1626.8	25.9
80.00	82.00	2.00	N253337	0.4	0.465	2408.7	53.8
82.00	84.00	2.00	N253338	0.3	0.643	3263.2	97.2
84.00	86.00	2.00	N253339	0.3	0.609	2704	65.8
86.00	88.00	2.00	N253340	0.4	0.582	2721.4	66

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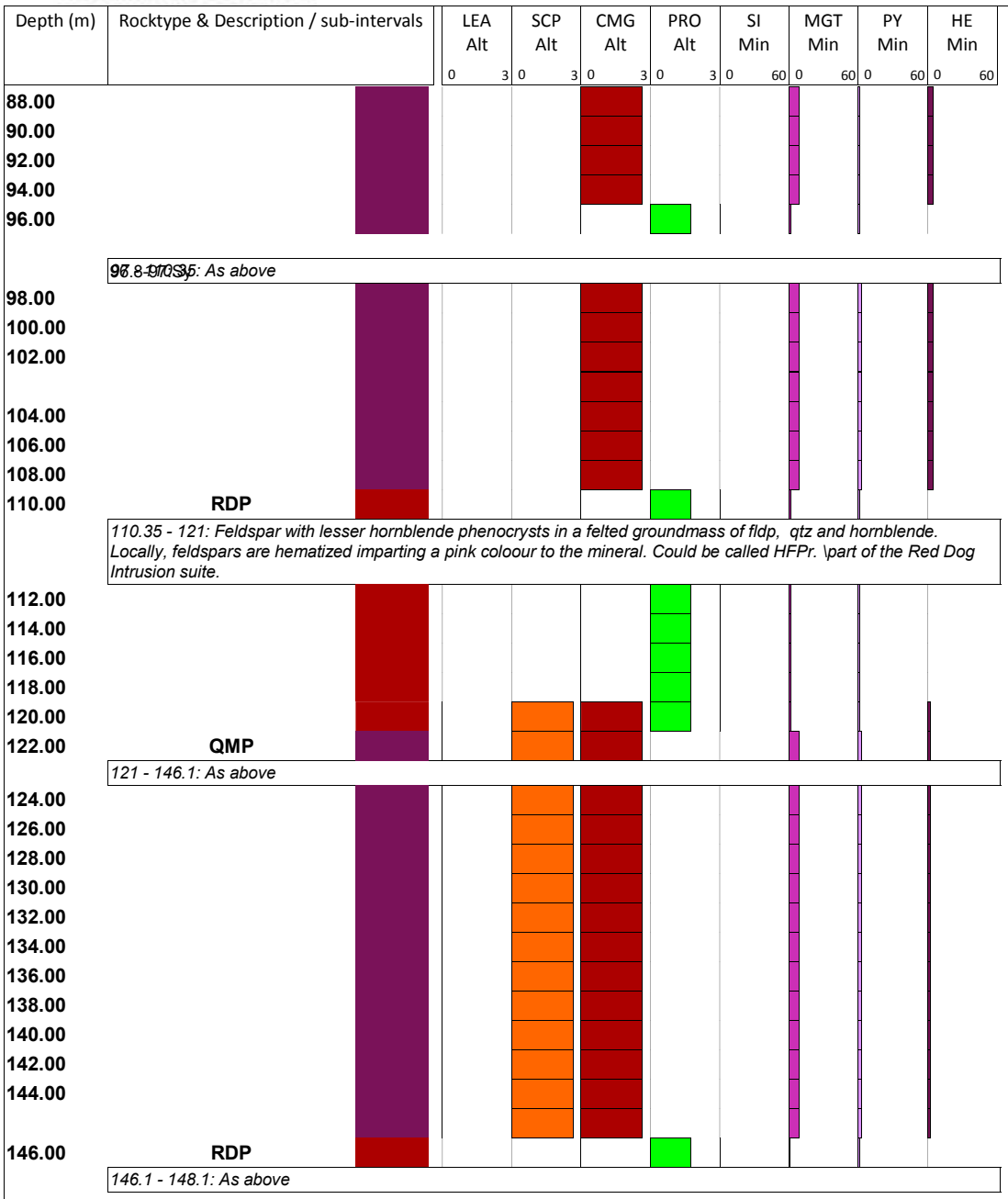
GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-06



Depth (m)	Rocktype & Description / sub-intervals
88.00	
90.00	
92.00	
94.00	
96.00	
	96.8 - 97.35: As above
98.00	
100.00	
102.00	
104.00	
106.00	
108.00	
110.00	RDP
	110.35 - 121: Feldspar with lesser hornblende phenocrysts in a felted groundmass of fldp, qtz and hornblende. Locally, feldspars are hematized imparting a pink coloour to the mineral. Could be called HFPr. \part of the Red Dog Intrusion suite.
112.00	
114.00	
116.00	
118.00	
120.00	
122.00	QMP
	121 - 146.1: As above
124.00	
126.00	
128.00	
130.00	
132.00	
134.00	
136.00	
138.00	
140.00	
142.00	
144.00	
146.00	RDP
	146.1 - 148.1: As above

From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
88.00	90.00	2.00	N253342	0.5	0.563	2456.4	28.8
90.00	92.00	2.00	N253343	0.4	0.571	2370.6	61.8
92.00	94.00	2.00	N253344	0.4	0.432	2177.3	56.3
94.00	96.00	2.00	N253345	0.4	0.471	2172.4	35
96.00	98.00	2.00	N253346	0.3	0.545	2619.4	47.6
98.00	100.00	2.00	N253347	0.3	0.666	2933.2	59.4
100.00	102.00	2.00	N253348	0.4	0.624	3123.8	34.1
102.00	104.00	2.00	N253349	0.3	0.95	3016	53.2
102.00	104.00	2.00	N253350	0.3	0.997	3133.8	36.8
104.00	106.00	2.00	N253351	0.4	0.975	2978.3	68
106.00	108.00	2.00	N253352	0.4	0.727	2919.4	42.8
108.00	110.00	2.00	N253354	0.3	0.684	2630.2	31.2
110.00	112.00	2.00	N253355	-0.05	0.06	481.4	21
112.00	114.00	2.00	N253356	-0.05	0.009	194.9	5.2
114.00	116.00	2.00	N253357	-0.05	0.022	287.9	20.7
116.00	118.00	2.00	N253358	-0.05	0.006	50.8	2.6
118.00	120.00	2.00	N253359	-0.05	0.013	234.5	5
120.00	122.00	2.00	N253360	0.2	0.128	1436.4	49.2
122.00	124.00	2.00	N253361	0.3	0.361	3002.9	145.7
124.00	126.00	2.00	N253362	0.5	0.425	3663.7	126.8
126.00	128.00	2.00	N253363	0.5	0.307	2782.9	136.9
128.00	130.00	2.00	N253364	0.8	0.383	4155.1	170.2
130.00	132.00	2.00	N253366	0.5	0.443	4304.1	110.9
132.00	134.00	2.00	N253367	0.6	0.293	3534.4	140.6
134.00	136.00	2.00	N253368	0.6	0.467	4261.2	131.7
136.00	138.00	2.00	N253369	0.6	0.347	2908.6	134
138.00	140.00	2.00	N253370	0.7	0.448	4032.9	167.7
140.00	142.00	2.00	N253371	0.8	0.441	4262.6	122.7
142.00	144.00	2.00	N253372	0.7	0.542	6070.3	141
144.00	146.00	2.00	N253373	0.8	0.7	6812.9	146.3
144.00	146.00	2.00	N253374	0.8	0.755	6110.3	130.1
146.00	148.00	2.00	N253375	0.2	0.105	1830.1	37.8

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GeoSpark Logger ~ Strip Log

Project: Red Dog **Hole Number:** RD16-06

Depth (m)	Rocktype & Description / sub-intervals	LEA Alt 0 3	SCP Alt 0 3	CMG Alt 0 3	PRO Alt 0 3	SI Min 0 60	MGT Min 0 60	PY Min 0 60	HE Min 0 60	From (m)	To (m)	Width	Sample	Ag ICP ppm	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm
148.00	**QMP**									148.00	150.00	2.00	N253376	1	0.585	8909.5	50.2
	148.1 - 150.1: As above																
150.00	**RDP**									150.00	152.00	2.00	N253377	0.6	0.384	3539.8	37.5
	150.1 - 152.2: Mixed RDP and QMP. QMP are inclusions in the porphyry.																
152.00																	

Appendix III
Survey Report on Drill Hole and Road Location

Coordinates of Drill holes and Road Intersections on Red Dog Mountain

Northern Vancouver Island, BC

Projection: **UTM Zone 9 North**
Datum: **NAD83(CSRS)3.0.0.BC.1.NVI**
Survey Date: **September 7-2016**

North Island Copper ID	Bazett Point ID	Northing	Easting	Orthometric Elevation	Description	Jack's GPS readings	
RD16-04	10001	5617717.64	572604.55	372.79	Drill hole	5617720	572602
RD16-05	10002	5617739.01	572598.34	374.43	Drill hole	5617742	572596
RD16-05A	10003	5617767.02	572591.81	376.85	Drill hole	5617777	572591
EC140	10004	5617789.90	572632.86	370.09	Drill hole	5617794	572629
RD16-01	10033	5617996.41	572231.76	457.56	Drill hole	5617992	572231
RD16-02	10044	5617979.12	572269.32	463.10	Drill hole	5617979	572267
RD16-03	10045	5617978.70	572306.77	464.03	Drill hole	5617978	572299
91-03	10046	5617977.63	572308.69	464.14	Drill hole	5617980	572305
90-04	10047	5617979.15	572284.17	464.75	Ground near buried drill hole	5617979	572281
RD16-06	10055	5618171.68	572159.53	352.95	Drill hole	5618178	572164
EC135	10056	5618104.94	572018.82	331.47	Drill hole	5618103	572019
--	10006	5618079.15	572624.22	395.25	Road Centreline		
--	10007	5618083.17	572630.61	395.91	Road Centreline		
--	10008	5618087.67	572636.48	397.05	Road Centreline		
--	10009	5618092.51	572641.87	397.50	Road Centreline, intersection		
--	10010	5618093.69	572650.57	397.58	Road Centreline		
--	10011	5618095.70	572657.40	397.64	Road Centreline		
--	10012	5618098.40	572663.83	397.45	Road Centreline		
--	10013	5618096.56	572636.51	398.74	Road Centreline		
--	10014	5618093.19	572477.86	425.73	Road Centreline		
--	10015	5618092.89	572469.98	426.26	Road Centreline		
--	10016	5618092.71	572462.79	426.66	Road Centreline		
--	10017	5618092.33	572455.80	427.02	Road Centreline		
--	10018	5618094.99	572446.15	427.53	Road Centreline, intersection		
--	10019	5618105.77	572438.15	428.11	Road Centreline		
--	10020	5618112.68	572433.32	428.43	Road Centreline		
--	10021	5618118.38	572428.74	428.97	Road Centreline		
--	10022	5618088.54	572437.88	427.43	Road Centreline		
--	10023	5618085.55	572429.74	428.28	Road Centreline		
--	10024	5618083.21	572423.00	428.76	Road Centreline		
--	10025	5618079.08	572410.93	430.87	Road Centreline		
--	10026	5618075.97	572401.06	432.27	Road Centreline, intersection		
--	10027	5618066.09	572407.24	433.25	Road Centreline		
--	10028	5618060.09	572413.95	433.63	Road Centreline		
--	10029	5618074.70	572394.95	433.62	Road Centreline		
--	10030	5618072.77	572387.19	435.13	Road Centreline		
--	10031	5618068.10	572368.47	438.46	Road Centreline		
North Island Copper ID	**Bazett Point ID**	**Northing**	**Easting**	**Orthometric Elevation**	**Description**		
--	10032	5618065.39	572358.46	440.04	Road Centreline		
--	10034	5617998.06	572235.14	458.19	Road Centreline		
--	10035	5617998.02	572243.01	459.46	Road Centreline		
--	10036	5617999.21	572250.62	460.80	Road Centreline		
--	10037	5617999.73	572258.56	460.90	Road Centreline		
--	10038	5617998.24	572266.72	460.17	Road Centreline, intersection		
--	10039	5618003.02	572272.84	458.91	Road Centreline		
--	10040	5618008.12	572280.30	457.29	Road Centreline		
--	10041	5617992.67	572262.61	461.54	Road Centreline		

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--	10042	5617985.98	572260.73	462.05	Road Centreline
--	10043	5617979.03	572262.77	463.05	Road Centreline
--	10048	5617975.32	572282.87	464.81	Road Centreline
--	10049	5617975.31	572270.40	462.79	Road Centreline
--	10050	5618486.80	572187.89	377.88	Road Centreline
--	10051	5618491.16	572186.29	377.46	Road Centreline, intersection
--	10052	5618497.73	572192.81	378.50	Road Centreline
--	10053	5618489.81	572178.98	376.10	Road Centreline
--	10054	5618461.81	572161.89	374.88	Road Centreline
--	10057	5617416.48	572160.78	224.91	Road Centreline
--	10058	5617408.67	572165.62	224.27	Road Centreline
--	10059	5617396.45	572170.16	223.36	Road Centreline, intersection
--	10060	5617398.68	572160.91	223.14	Road Centreline
--	10061	5617401.24	572151.11	222.82	Road Centreline
--	10062	5617403.93	572141.06	222.49	Road Centreline
--	10063	5617403.99	572141.07	222.56	Road Centreline
--	10064	5617393.41	572180.18	223.71	Road Centreline
--	10065	5617390.29	572190.86	223.90	Road Centreline
--	10066	5617386.94	572200.86	224.02	Road Centreline

Appendix IV
Thin Section Descriptions
By
John McClintock, P.Eng

Thin Section Analysis

Sample Hole RD16-05 at 125m

Hand Specimen Description: Pale grey to pale greenish grey tuff that is intensely silicified, clay altered and pyritized. Silicification is dominantly pervasive with lesser quartz veining. Clay has altered all of the feldspars and original mafic minerals. Pyrite is mainly as disseminated fine to medium grains and along fractures and in quartz veins. Late zeolite veinlets to 1mm cut the specimen but are volumetrically unimportant.

Name: SCP altered tuff

Thin Section Description:

Quartz	35%
Pyrophyllite	25%
Dickite	17%
Pyrite	10%
Fluorite	5%
Laumonite	3%
Diaspore	3%
Accessory minerals	2%

Quartz forms sucrosic replacements flooding the matriz between original lithic lapilli and ash, which are completely altered to allotriomorphic intergrowths of pyrophyllite, dickite and lesser diaspore. Quartz also occurs in cross cutting veins and is accompanied by scattered grains of fluorite both in and adjacent to the veins. The zeolite laumonite is present in 1 to 2mm cross cutting veins.

Rock name: Advanced argillically altered lapilli tuff.

Sample Hole RD16-05 at 105.5m

Hand Specimen Description: Greyish green coloured andesite characterized by lath to tabular shaped feldspar phenocrysts to 1.5mm and lesser amygdules filled with zeolite along with smaller mafic phenocryst. Phenocrysts of feldspar and the mafic mineral form about 3o% of the rock in a fine grained, felted groundmass of feldspar and a greenish coloured mafic mineral. Pyrite is present as minor amounts as disseminated grains.

Rock name: Andesite porphyry

Thin Section Description

Plagioclase phenocrysts	25% An_{60}
Plagioclase groundmass	35% An_{30}
Stilbite in amygdules	15%
Augite	10%
Kspar	3%
Carbonate	2%
Quartz	5%
Epidote	3%
Magnetite	1%
Pyrite	1%

Porphyritic texture with plagioclase phenocrysts to 2mm, augite to 0.5mm or less and stilbite filled amygdules up to 2mm in a fine gained pilotaxitic matrix of plagioclase laths, biotite, epidote, augite, quartz and Kspar. A carbonate mineral occurs in fractures and as replacements of the plagioclase phenocrysts. Chlorite in trace amounts forms occasional replacement of augite. Pyrite forms disseminate 1mm grains while magnetite forms finer disseminated grains. Pyrite commonly is associated with secondary chlorite and epidote.

Rock name: Andesite porphyry

Sample RD16-05A at 184m

Hand Specimen Description: greenish grey coloured andesite flow. Weakly porphyritic. Mafic minerals are chloritized and in part replaced by pyrite. Sucrosic quartz veins to 1mm cut the rock. Late zeolite form hairline veins less than 1mm present.

Rock Name: Andesite flow

Thin Section Description:

Plagioclase	**20% An_{35}**
Chlorite	25%
Pyrophyllite	15%
Quartz	20%
Dickite	5%
Pyrite	5%
Magnetite	3%
Laumonite	3%
Calcite	2%
Acc: rutile, titanite, diaspore	2%

Plagioclase forms in clot-like cumulophyritic texture mixed with areas of now strongly chloritized mafic minerals. Plagioclase has incipient replacement by pyrophyllite and lesser carbonate. In the chlorite rich areas, pyrophyllite is finely inter grown with the chlorite. Chlorite is generally coarser grained than the pyrophyllite. Some chlorite shows alteration to pyrophyllite and dickite on the margins. Quartz is principally present in later veins as fine grained allotriomorphic grains. Dickite is present in minor amounts with the pyrophyllite and chlorite. The zeolite laumonite is in thin, <0.5mm veins cutting all earlier minerals. Calcite occurs in minor amounts in the laumonite veins and as incipient replacement of the plagioclase.

Rock name: Andesite flow breccia.

Sample Hole RD16-05A at 205m

Hand Specimen Description: White to buff coloured tuff. Pervasive silica flooding causes mottled areas of darker grey. Minor 1mm thick quartz veins with pyrite are present. In addition to the silicification, the rock is strongly clay altered and pyritic.

Rock name: SCP altered tuff.

Thin Section Description:

Pyrophyllite	35%
Quartz	25%
Dickite	19%
Pyrite	15%
Laumonite	3%
Carbonate	2%
Accessory minerals	1%

Rock was originally a lapilli tuff. Original lapilli now completely replaced by fine to very fine grained intergrowth of pyrophylite and dickite. Quartz as very fine grains replaces the former matrix between the lapilli. Quartz replacing the matrix is saccharoidal textured. Coarser grained quartz is present in veins cutting the rock. Pyrite occurs as fine to very fine disseminated grains as well as along fractures. Pyrite is preferentially associated with the pyrophyllite and dickite replacing the former lapilli.

Rock name: Advanced argillically altered tuff, probably originally an andesite

Sample Hole RD16-06 at 39m

Hand Specimen Description: Feldspar and chloritized hornblende porphyritic textured quartz diorite strongly fractured and cut by zeolite veining. Porphyry texture is crowded with 2mm plagioclase and 1mm chloritized hornblende in a felted groundmass of feldspar, hornblende and epidote.

Rock name: Quartz diorite porphyry

Thin Section Description:

Plagioclase phenocrysts	30% An_{35}
Chlorite	20%
Clinozoisite / epidote	15%
Quartz	10%
Laumonite	3%
Rock flour	5%
Orthoclase	5%
Sericite	5%
Carbonate and Acc minerals	2%

Plagioclase forms phenocrysts to 3mm that are up to 30% replaced by epidote / clinozoisite and sericitized to a minor extent. The original hornblendes are completely replaced by “book-like” aggregates of chlorite. The groundmass plagioclase is similarly altered as the phenocrysts. Rock flour with fragments of epidote, plagioclase and chlorite fill fractures cutting through the rock. Laumonite cuts through and along these late fractures. The plagioclase phenocrysts have an average An content of 35 while the groundmass are slightly lower at An_{30}

Rock name: Tonnalite porphyry with late cataclastic overprint

Sample Hole RD16-06 at 44.1m

Hand Specimen Description: Breccia composed of dark grey fragments of magnetite, lesser hematite, pyrite and chalcopyrite in a white coloured granular quartz matrix.

Rock Name: Quartz Magnetite Breccia

Thin Section Description:

Quartz	60%
Magnetite	10%
Pyrite (Chalcopyrite)	5%
Chlorite	15%
Sericite	5%
Orthoclase	5%
Epidote, rutile	tr

Wispy to irregular shaped clots and areas of finely inter-grown, allotriomorphic granular chlorite and sericite with coarse to fine grained opaques (magnetite, hematite and sulphides (chalcopyrite)) surrounded by fine sucrosic quartz. The clot like patches of opaques – chlorite – sericite are up to 5mm across and show irregular contacts with the replacing quartz. A second stage of quartz consists of coarser grained saccharoidal quartz with lesser orthoclase cuts the earlier finer grained quartz and appears to be genetically later. The lack of sharp contacts and replacement texture of quartz after the patches of opaques-chlorite-sericite suggests the rock is a pseudo-breccia due to replace of the original rock by quartz. The orthoclase is unaltered and appears to be part of the silicification event of the later coarser grained quartz introduction.

Appendix V
North Island Project Claim Map

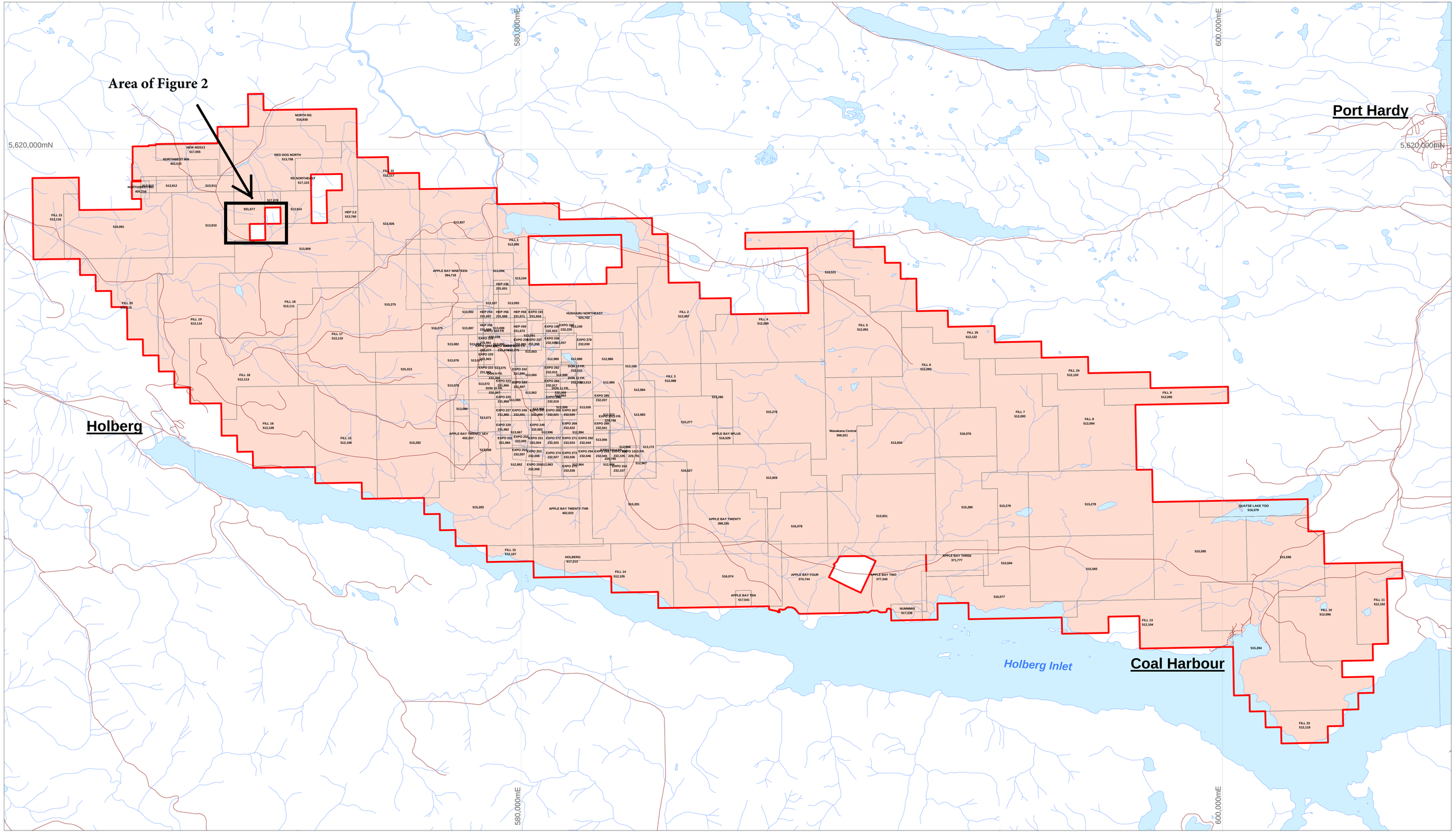

Figure 2a

NorthIsle Copper and Gold Inc.
Island Copper Project
ISLAND COPPER WEST BLOCK **CLAIM MAP**
DATE: February 2012

Appendix VI
Assay Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: July 25, 2016
Report Date: August 19, 2016
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN16001234.2

CLIENT JOB INFORMATION

Project: Red Dog
Shipment ID:
P.O. Number
Number of Samples: 40

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	38	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	2	Sort, label and box pulps			VAN
FA350-Au	40	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
MA200	40	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
Ship	40	Shipping charges for collect packages			VAN
MA370	31	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2 : MA370-Cu included.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1
CANADA

CC: Michael McClintock

JEFFREY CANNON
Geochemistry Department Supervisor

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

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

CERTIFICATE OF ANALYSIS VAN16001234.2

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N252937	Drill Core	0.83	1403	68.1	3708.7	7.9	74	1.2	4.8	13.6	132	7.60	3	0.3	0.8	5	0.2	0.3	0.4	56	0.02
N252938	Drill Core	2.92	1184	109.9	7752.3	4.3	146	1.5	4.6	11.9	204	16.60	2	0.2	2.1	3	0.2	0.3	0.2	38	0.02
N252939	Drill Core	4.04	1414	298.4	4164.2	5.2	75	1.6	2.8	8.0	123	13.98	28	0.2	1.3	4	0.2	0.5	0.5	34	0.03
N252940	Drill Core	6.38	1325	118.1	7373.0	4.3	82	2.1	3.8	12.8	121	12.86	14	0.2	1.2	2	<0.1	0.4	0.6	40	0.01
N252941	Drill Core	8.03	704	62.7	5309.0	5.5	486	0.7	5.0	17.9	69	10.07	<1	0.2	1.1	3	4.2	0.2	0.8	40	0.01
N252942	Drill Core	7.28	593	91.3	4622.0	4.4	55	0.5	2.9	17.8	136	10.02	12	0.3	1.5	2	0.1	0.3	0.5	29	0.01
N252943	Rock Pulp	0.06	213	394.1	1976.9	25.3	60	12.9	15.2	11.1	768	3.78	15	0.9	1.9	432	0.3	35.0	2.0	87	2.85
N252944	Drill Core	8.73	605	229.1	3596.6	6.1	53	1.0	2.8	13.5	71	8.54	4	0.2	0.6	3	0.2	0.5	1.3	24	0.01
N252945	Drill Core	6.54	962	257.3	3238.6	4.9	27	0.7	2.3	13.3	57	10.95	<1	0.2	1.7	2	<0.1	0.3	1.1	26	<0.01
N252946	Drill Core	4.40	979	66.2	4925.2	4.3	25	0.6	2.7	11.4	74	8.36	3	<0.1	0.5	1	0.2	0.2	0.8	17	<0.01
N252947	Drill Core	9.75	814	75.6	3754.9	5.8	30	0.5	2.6	10.5	79	10.52	1	0.1	0.7	2	0.1	0.2	0.5	15	<0.01
N252948	Drill Core	4.08	711	98.5	4191.2	3.7	37	0.6	2.7	14.9	151	12.00	<1	0.2	1.2	2	<0.1	0.2	0.6	18	0.01
N252950	Drill Core	9.96	951	81.9	5226.2	4.8	28	1.1	3.2	17.7	88	9.70	2	0.3	1.0	7	0.2	0.2	0.9	31	0.01
N252951	Drill Core	9.82	562	52.9	4309.6	5.2	28	0.8	2.9	11.9	67	9.19	3	0.1	0.2	<1	0.2	0.2	0.9	15	<0.01
N252952	Drill Core	7.29	582	41.5	4822.4	4.5	23	0.6	3.1	12.7	62	9.70	4	0.1	0.7	2	<0.1	0.3	0.9	19	<0.01
N252953	Rock	1.65	<2	0.2	7.8	0.2	2	<0.1	<0.1	0.2	26	0.05	8	1.3	<0.1	4224	0.1	0.1	0.1	<1	37.31
N252954	Drill Core	9.33	746	28.9	3640.3	5.4	22	0.3	2.4	12.4	51	12.23	6	0.1	1.4	6	<0.1	0.3	0.6	17	0.03
N252955	Drill Core	10.92	889	29.7	4858.4	4.7	30	0.6	2.7	14.7	58	11.46	4	0.1	0.9	4	0.2	0.2	0.6	12	0.03
N252956	Drill Core	9.09	793	67.5	4148.6	6.5	21	0.7	2.5	12.6	41	9.85	10	0.1	1.9	2	0.2	0.3	0.6	17	<0.01
N252957	Drill Core	9.29	517	35.4	820.3	7.1	15	0.6	0.8	1.1	30	7.33	2	<0.1	0.3	5	0.1	0.2	0.5	13	0.03
N252958	Drill Core	9.39	765	41.6	633.7	5.5	16	0.8	0.4	0.6	31	5.44	12	<0.1	0.2	<1	<0.1	0.2	0.5	10	<0.01
N252959	Drill Core	9.50	420	28.0	666.0	6.2	20	0.9	1.1	4.1	31	6.56	5	<0.1	0.3	2	0.2	0.3	0.4	11	<0.01
N252960	Drill Core	10.02	511	30.1	703.8	4.8	13	0.5	1.0	4.4	23	13.56	8	0.1	0.6	1	<0.1	0.5	0.6	18	<0.01
N252961	Drill Core	8.17	553	20.6	1265.5	3.7	15	0.4	1.1	5.1	29	8.12	1	0.1	0.4	1	<0.1	0.3	0.3	9	<0.01
N252962	Rock Pulp	0.06	596	846.1	6025.2	35.9	60	28.5	18.8	5.5	431	2.96	21	1.2	1.6	285	0.6	77.9	1.9	33	1.24
N252963	Drill Core	8.19	450	16.7	325.3	3.7	17	1.0	0.6	1.8	31	4.99	<1	0.1	0.2	2	<0.1	0.7	0.2	11	<0.01
N252964	Drill Core	4.78	75	8.1	1614.6	251.6	286	0.3	6.6	18.1	1729	5.83	2	0.6	1.1	223	2.1	0.5	0.3	117	1.97
N252965	Drill Core	7.49	22	2.4	2178.3	111.9	158	0.2	8.7	19.3	1228	5.59	2	0.8	1.2	214	0.9	0.5	<0.1	150	1.48
N252966	Drill Core	9.65	457	15.8	3481.6	6.3	25	0.4	2.8	19.7	61	11.26	3	<0.1	0.3	2	<0.1	0.2	0.5	14	0.01
N252967	Drill Core	8.81	718	30.5	5627.6	4.8	25	0.5	2.5	19.3	45	11.12	<1	<0.1	0.4	2	<0.1	0.2	0.4	10	<0.01

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N252937	Drill Core	0.038	3.3	7	0.96	142	0.070	3.19	0.040	0.81	0.3	9.5	7	9.6	1.8	0.9	<0.1	<1	7	6.1	2.5
N252938	Drill Core	0.033	3.3	4	1.59	85	0.040	3.28	0.029	0.51	0.6	6.2	7	4.1	1.7	0.5	<0.1	<1	4	9.4	0.8
N252939	Drill Core	0.030	1.1	3	1.12	31	0.045	1.71	0.021	0.15	0.5	4.3	2	3.2	1.0	0.9	<0.1	<1	3	6.7	1.1
N252940	Drill Core	0.018	1.6	4	1.16	43	0.055	1.83	0.018	0.23	1.5	3.9	3	3.4	1.7	0.9	<0.1	<1	4	5.6	3.8
N252941	Drill Core	0.020	2.5	4	0.81	67	0.056	2.86	0.034	0.85	0.4	8.8	5	3.1	3.0	0.8	<0.1	<1	4	6.2	7.0
N252942	Drill Core	0.008	2.4	3	1.45	64	0.063	3.04	0.023	0.61	0.7	8.7	4	3.3	1.8	1.2	<0.1	<1	4	7.9	4.8
N252943	Rock Pulp	0.053	8.4	19	0.92	755	0.213	7.20	2.301	1.97	1.7	10.3	19	3.2	11.3	2.8	0.2	<1	9	8.1	0.3
N252944	Drill Core	0.005	1.9	4	0.27	19	0.037	1.54	0.028	0.55	0.6	5.0	4	2.6	3.0	0.7	<0.1	<1	4	5.2	7.6
N252945	Drill Core	0.012	2.5	3	0.54	68	0.037	1.69	0.022	0.49	0.7	5.4	5	3.2	1.3	1.0	<0.1	<1	3	4.2	6.4
N252946	Drill Core	0.008	0.8	2	0.73	24	0.025	1.57	0.015	0.15	0.4	1.9	1	1.7	0.7	0.9	<0.1	<1	2	5.4	3.9
N252947	Drill Core	0.006	0.5	3	0.72	38	0.022	1.70	0.015	0.15	0.5	2.4	<1	2.4	0.4	0.9	<0.1	<1	2	6.3	1.4
N252948	Drill Core	0.002	1.6	3	1.08	56	0.035	2.43	0.022	0.33	0.6	5.2	3	2.7	0.9	1.5	<0.1	<1	2	6.0	3.8
N252950	Drill Core	0.007	2.0	3	1.10	68	0.049	2.54	0.024	0.51	0.7	8.6	4	2.6	2.3	1.7	<0.1	<1	4	6.1	5.5
N252951	Drill Core	0.002	0.3	4	0.49	8	0.019	0.70	0.015	0.04	0.3	1.7	<1	2.3	1.3	0.9	<0.1	<1	3	4.5	5.8
N252952	Drill Core	0.005	0.5	3	0.69	23	0.025	1.61	0.016	0.20	1.1	3.4	<1	2.8	1.5	0.9	<0.1	<1	5	6.6	6.2
N252953	Rock	0.003	0.2	<1	1.86	5	<0.001	0.02	0.003	<0.01	<0.1	0.3	<1	0.1	0.2	<0.1	<0.1	<1	<1	0.9	<0.1
N252954	Drill Core	0.014	0.4	2	0.85	29	0.018	1.47	0.013	0.10	0.6	2.6	<1	3.0	0.4	1.0	<0.1	<1	3	5.8	3.8
N252955	Drill Core	0.008	0.4	3	1.14	13	0.018	1.60	0.011	0.03	0.5	2.4	<1	2.9	0.5	1.1	<0.1	<1	2	7.0	2.4
N252956	Drill Core	0.020	0.5	2	0.70	42	0.018	1.14	0.011	0.03	0.8	2.4	<1	3.2	0.5	1.0	<0.1	<1	3	6.1	1.8
N252957	Drill Core	0.010	0.2	3	0.01	28	0.009	0.16	0.017	0.05	0.5	1.9	<1	2.8	0.5	0.6	<0.1	<1	<1	3.5	0.8
N252958	Drill Core	0.005	0.2	3	0.02	14	0.009	0.10	0.019	0.03	0.7	1.8	<1	3.4	0.5	0.7	<0.1	<1	<1	2.9	0.3
N252959	Drill Core	0.005	0.2	2	0.02	14	0.012	0.16	0.018	0.05	0.6	1.9	<1	2.9	0.9	0.7	<0.1	<1	<1	3.1	0.8
N252960	Drill Core	0.008	0.3	2	0.02	35	0.022	0.26	0.013	0.08	0.7	2.9	<1	4.1	0.6	1.2	<0.1	<1	<1	3.4	2.2
N252961	Drill Core	0.003	0.2	2	0.02	7	0.015	0.09	0.014	0.02	0.6	2.0	<1	3.6	0.5	1.0	<0.1	<1	<1	3.2	1.6
N252962	Rock Pulp	0.028	7.5	22	0.19	413	0.088	5.86	1.945	2.29	2.7	10.1	15	3.2	5.8	2.2	0.1	1	2	8.4	1.0
N252963	Drill Core	0.001	0.1	3	0.01	20	0.014	0.30	0.023	0.11	0.8	4.0	<1	4.2	1.8	1.0	<0.1	<1	1	4.2	0.6
N252964	Drill Core	0.061	8.0	6	1.36	95	0.316	6.75	1.136	1.61	1.4	42.6	17	1.6	12.3	3.4	0.2	<1	14	11.7	2.2
N252965	Drill Core	0.072	10.0	7	1.81	933	0.423	8.79	1.276	2.30	0.9	60.4	23	1.1	16.8	4.7	0.3	1	18	16.0	0.6
N252966	Drill Core	0.002	0.4	2	0.49	10	0.012	0.56	0.017	0.03	0.2	2.0	<1	2.9	0.9	0.6	<0.1	<1	3	4.6	6.0
N252967	Drill Core	0.004	0.3	2	0.40	6	0.010	0.57	0.016	0.02	0.4	1.8	<1	3.1	0.8	0.9	<0.1	<1	1	3.6	4.9

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

CERTIFICATE OF ANALYSIS VAN16001234.2

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA370
Analyte		Rb	Hf	In	Re	Se	Te	Tl	Cu
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5	0.001
N252937	Drill Core	22.7	0.3	0.93	0.458	8	0.7	<0.5	0.378
N252938	Drill Core	15.2	0.1	1.29	0.876	9	<0.5	<0.5	0.755
N252939	Drill Core	4.9	0.1	0.87	1.070	17	2.2	<0.5	0.418
N252940	Drill Core	7.2	0.1	0.97	0.587	23	2.9	<0.5	0.727
N252941	Drill Core	26.4	0.3	0.56	0.339	26	3.0	<0.5	0.519
N252942	Drill Core	20.0	0.2	0.50	0.482	13	1.9	<0.5	0.459
N252943	Rock Pulp	33.8	0.6	<0.05	0.387	<1	1.2	<0.5	
N252944	Drill Core	16.9	0.2	0.28	1.225	36	3.6	<0.5	0.359
N252945	Drill Core	15.5	0.1	0.46	1.156	36	4.0	<0.5	0.320
N252946	Drill Core	4.1	<0.1	0.45	0.332	16	1.4	<0.5	0.493
N252947	Drill Core	4.7	<0.1	0.38	0.371	12	0.7	<0.5	0.367
N252948	Drill Core	9.5	0.2	0.39	1.190	12	1.0	<0.5	0.425
N252950	Drill Core	14.4	0.3	0.38	0.502	15	2.0	<0.5	0.531
N252951	Drill Core	1.5	<0.1	0.35	0.303	16	1.6	<0.5	0.433
N252952	Drill Core	6.2	<0.1	0.56	0.269	18	1.9	<0.5	0.495
N252953	Rock	0.5	<0.1	<0.05	<0.005	1	1.9	<0.5	
N252954	Drill Core	3.3	<0.1	0.73	0.139	12	0.9	<0.5	0.382
N252955	Drill Core	1.1	<0.1	0.87	0.181	8	0.7	<0.5	0.509
N252956	Drill Core	1.1	<0.1	1.28	0.380	10	<0.5	<0.5	0.439
N252957	Drill Core	1.6	<0.1	0.18	0.076	13	1.4	<0.5	
N252958	Drill Core	1.1	<0.1	0.11	0.037	20	2.0	<0.5	
N252959	Drill Core	1.6	<0.1	0.12	0.096	20	1.1	<0.5	
N252960	Drill Core	2.5	<0.1	0.22	0.083	18	1.7	<0.5	
N252961	Drill Core	0.7	<0.1	0.14	0.111	12	0.7	<0.5	0.128
N252962	Rock Pulp	48.6	0.5	<0.05	0.653	<1	3.7	<0.5	
N252963	Drill Core	3.1	<0.1	<0.05	0.056	17	1.2	<0.5	
N252964	Drill Core	37.4	1.2	0.11	0.064	5	0.9	<0.5	0.161
N252965	Drill Core	42.8	1.7	0.08	0.007	<1	<0.5	<0.5	0.221
N252966	Drill Core	1.2	<0.1	0.40	0.110	11	1.1	<0.5	0.343
N252967	Drill Core	0.6	<0.1	0.54	0.341	15	1.0	<0.5	0.581

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

CERTIFICATE OF ANALYSIS VAN16001234.2

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N252968	Drill Core	9.76	698	23.9	5146.2	3.8	21	0.5	2.3	19.9	37	9.54	1	0.2	0.4	<1	<0.1	0.2	0.4	10	<0.01
N252969	Drill Core	4.14	619	25.3	4106.1	3.7	21	0.3	2.6	15.8	42	10.47	<1	0.1	0.4	<1	0.2	0.4	0.4	12	<0.01
N252971	Drill Core	10.38	735	27.8	4942.1	4.5	20	0.4	2.5	19.9	43	9.98	<1	0.1	0.4	<1	0.2	0.2	0.7	11	<0.01
N252972	Drill Core	11.39	402	53.0	4195.1	4.8	24	0.3	2.6	22.9	49	12.40	<1	0.1	0.6	1	<0.1	0.3	0.7	12	0.01
N252973	Drill Core	10.48	609	24.6	4411.9	4.6	29	0.4	2.4	25.2	54	11.12	<1	0.1	0.5	<1	0.2	0.2	0.7	12	<0.01
N252974	Drill Core	10.64	1084	30.8	4743.7	4.1	31	0.5	2.6	29.1	58	11.49	<1	0.2	0.4	<1	0.2	0.2	0.5	12	0.02
N252975	Drill Core	10.99	537	37.7	5783.5	4.9	23	0.6	3.1	26.4	52	14.11	<1	0.1	0.4	<1	0.2	0.3	0.8	15	0.01
N252976	Drill Core	11.74	685	35.8	5431.1	3.9	24	0.3	2.4	19.5	54	12.13	<1	0.1	0.4	<1	<0.1	0.3	0.5	13	0.02
N252977	Rock	1.67	<2	<0.1	6.7	0.1	3	<0.1	0.7	0.4	35	0.03	<1	1.5	<0.1	4471	<0.1	<0.1	<0.1	<1	36.96
N252978	Drill Core	9.80	695	55.1	5173.4	3.6	24	0.3	3.1	27.8	65	13.14	<1	0.2	0.4	2	<0.1	0.3	0.6	15	0.06

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

CERTIFICATE OF ANALYSIS VAN16001234.2

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N252968	Drill Core	0.004	0.3	2	0.53	4	0.011	0.55	0.014	<0.01	0.4	1.7	<1	3.1	0.7	0.9	<0.1	<1	1	2.8	3.1
N252969	Drill Core	0.002	0.3	2	0.29	5	0.010	0.57	0.012	0.01	0.4	1.7	<1	3.7	0.8	0.9	<0.1	<1	1	3.7	5.2
N252971	Drill Core	0.001	0.3	2	0.47	10	0.013	0.74	0.018	0.06	0.3	2.0	<1	3.4	1.1	0.8	<0.1	<1	1	3.7	6.5
N252972	Drill Core	0.002	0.3	2	0.19	9	0.008	0.53	0.020	0.05	0.2	1.6	<1	3.5	1.2	0.8	<0.1	<1	1	3.2	9.0
N252973	Drill Core	0.002	0.4	2	0.45	3	0.013	0.70	0.017	<0.01	0.4	1.8	<1	3.9	1.3	1.0	<0.1	<1	2	3.9	4.5
N252974	Drill Core	0.003	0.5	3	0.73	3	0.011	0.67	0.017	<0.01	0.4	1.8	<1	3.3	0.8	1.1	<0.1	<1	2	2.7	2.5
N252975	Drill Core	0.003	0.3	3	0.19	5	0.009	0.57	0.020	0.03	0.3	1.7	<1	4.6	1.3	0.9	<0.1	<1	2	2.7	9.1
N252976	Drill Core	0.002	0.3	2	0.35	3	0.011	0.58	0.017	<0.01	0.7	1.6	<1	3.8	1.1	1.0	<0.1	<1	2	2.2	4.2
N252977	Rock	0.004	0.4	<1	1.96	6	<0.001	0.02	0.006	<0.01	<0.1	0.2	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.4	<0.1
N252978	Drill Core	0.002	0.4	2	0.60	38	0.014	0.81	0.015	<0.01	1.1	1.9	<1	4.1	1.6	1.3	<0.1	<1	2	3.9	3.7

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

CERTIFICATE OF ANALYSIS VAN16001234.2

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA370
Analyte		Rb	Hf	In	Re	Se	Te	Tl	Cu
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5	0.001
N252968	Drill Core	0.4	<0.1	0.69	0.530	11	0.8	<0.5	0.539
N252969	Drill Core	0.6	<0.1	0.36	0.867	17	1.2	<0.5	0.420
N252971	Drill Core	1.9	<0.1	0.50	0.229	20	1.2	<0.5	0.500
N252972	Drill Core	1.5	<0.1	0.46	0.549	23	1.5	<0.5	0.429
N252973	Drill Core	0.5	<0.1	0.40	0.216	18	1.3	<0.5	0.442
N252974	Drill Core	0.4	<0.1	0.52	0.276	11	0.7	<0.5	0.477
N252975	Drill Core	0.9	<0.1	0.39	0.197	43	3.0	<0.5	0.567
N252976	Drill Core	0.6	<0.1	0.40	0.229	24	1.5	<0.5	0.544
N252977	Rock	<0.1	<0.1	<0.05	<0.005	<1	2.8	<0.5	
N252978	Drill Core	0.5	<0.1	0.39	0.398	20	1.4	<0.5	0.524

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

	Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
N252944	Drill Core	8.73	605	229.1	3596.6	6.1	53	1.0	2.8	13.5	71	8.54	4	0.2	0.6	3	0.2	0.5	1.3	24	0.01
REP N252944	QC			246.0	3604.2	6.5	54	1.0	3.1	13.8	71	8.69	5	0.1	0.6	3	0.2	0.5	1.4	25	0.01
N252952	Drill Core	7.29	582	41.5	4822.4	4.5	23	0.6	3.1	12.7	62	9.70	4	0.1	0.7	2	<0.1	0.3	0.9	19	<0.01
REP N252952	QC		603																		
REP N252953	QC			0.6	5.4	0.1	<1	<0.1	<0.1	<0.2	21	0.04	<1	1.2	<0.1	4020	<0.1	<0.1	<0.1	<1	35.47
N252961	Drill Core	8.17	553	20.6	1265.5	3.7	15	0.4	1.1	5.1	29	8.12	1	0.1	0.4	1	<0.1	0.3	0.3	9	<0.01
REP N252961	QC			22.0	1315.8	3.9	18	0.3	1.2	4.8	34	8.71	1	0.1	0.4	1	0.1	0.2	0.3	12	<0.01
N252967	Drill Core	8.81	718	30.5	5627.6	4.8	25	0.5	2.5	19.3	45	11.12	<1	<0.1	0.4	2	<0.1	0.2	0.4	10	<0.01
REP N252967	QC																				
N252978	Drill Core	9.80	695	55.1	5173.4	3.6	24	0.3	3.1	27.8	65	13.14	<1	0.2	0.4	2	<0.1	0.3	0.6	15	0.06
REP N252978	QC		702	55.3	5242.6	3.6	26	0.3	3.0	27.9	65	13.59	<1	0.2	0.5	2	<0.1	0.3	0.6	15	0.02
Core Reject Duplicates																					
N252953	Rock	1.65	<2	0.2	7.8	0.2	2	<0.1	<0.1	0.2	26	0.05	8	1.3	<0.1	4224	0.1	0.1	0.1	<1	37.31
DUP N252953	QC		<2	0.2	5.0	0.1	<1	<0.1	<0.1	<0.2	23	0.04	<1	1.2	<0.1	4151	<0.1	0.1	<0.1	<1	36.27
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD OREAS25A-4A	Standard			2.4	35.7	24.8	46	<0.1	47.0	8.3	489	6.69	11	3.0	14.6	46	0.1	0.7	0.4	162	0.25
STD OREAS25A-4A	Standard			2.5	36.9	25.5	42	<0.1	47.7	8.0	507	6.74	10	2.9	15.0	46	<0.1	0.6	0.3	163	0.29
STD OREAS25A-4A	Standard			2.2	33.2	24.9	43	<0.1	46.8	7.7	450	6.46	10	2.8	14.4	42	<0.1	0.6	0.4	158	0.28
STD OREAS45E	Standard			2.3	816.9	19.0	50	0.3	501.8	61.9	596	24.06	18	2.6	13.1	18	<0.1	1.3	0.4	348	0.07
STD OREAS45E	Standard			2.8	805.5	19.2	46	0.4	473.3	62.0	588	25.10	18	2.5	12.3	17	<0.1	1.2	0.3	324	0.07
STD OREAS45E	Standard			2.4	772.8	18.6	47	0.3	487.3	60.9	581	25.35	18	2.5	13.4	20	<0.1	1.1	0.3	336	0.09
STD OXD108	Standard		404																		
STD OXD108	Standard		404																		
STD OXD108	Standard		414																		
STD OXI121	Standard		1780																		
STD OXI121 Expected			1834																		

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Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N252944	Drill Core	0.005	1.9	4	0.27	19	0.037	1.54	0.028	0.55	0.6	5.0	4	2.6	3.0	0.7	<0.1	<1	4	5.2	7.6
REP N252944	QC	0.005	1.8	5	0.26	31	0.039	1.55	0.028	0.57	0.7	5.1	4	2.7	2.7	0.7	<0.1	<1	4	5.7	7.6
N252952	Drill Core	0.005	0.5	3	0.69	23	0.025	1.61	0.016	0.20	1.1	3.4	<1	2.8	1.5	0.9	<0.1	<1	5	6.6	6.2
REP N252952	QC																				
REP N252953	QC	0.004	<0.1	1	1.76	4	<0.001	0.02	0.003	<0.01	<0.1	0.2	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.5	<0.1
N252961	Drill Core	0.003	0.2	2	0.02	7	0.015	0.09	0.014	0.02	0.6	2.0	<1	3.6	0.5	1.0	<0.1	<1	<1	3.2	1.6
REP N252961	QC	0.003	0.2	2	0.02	7	0.016	0.10	0.017	0.02	0.7	2.1	<1	3.9	0.5	1.1	<0.1	<1	<1	3.0	1.5
N252967	Drill Core	0.004	0.3	2	0.40	6	0.010	0.57	0.016	0.02	0.4	1.8	<1	3.1	0.8	0.9	<0.1	<1	1	3.6	4.9
REP N252967	QC																				
N252978	Drill Core	0.002	0.4	2	0.60	38	0.014	0.81	0.015	<0.01	1.1	1.9	<1	4.1	1.6	1.3	<0.1	<1	2	3.9	3.7
REP N252978	QC	0.001	0.4	3	0.61	38	0.015	0.82	0.015	<0.01	1.2	1.9	<1	4.4	1.7	1.3	<0.1	<1	2	3.1	3.7
Core Reject Duplicates																					
N252953	Rock	0.003	0.2	<1	1.86	5	<0.001	0.02	0.003	<0.01	<0.1	0.3	<1	0.1	0.2	<0.1	<0.1	<1	<1	0.9	<0.1
DUP N252953	QC	0.003	0.3	<1	1.79	4	<0.001	0.02	0.003	<0.01	<0.1	0.2	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.6	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD OREAS25A-4A	Standard	0.052	19.4	125	0.34	158	0.986	8.78	0.144	0.50	2.0	154.4	43	4.5	9.6	20.0	1.4	1	12	41.5	<0.1
STD OREAS25A-4A	Standard	0.050	21.4	120	0.32	151	0.966	9.27	0.130	0.49	1.9	158.3	47	4.3	10.5	20.8	1.5	1	12	38.1	<0.1
STD OREAS25A-4A	Standard	0.045	22.0	119	0.30	143	0.957	8.14	0.122	0.49	2.1	153.2	46	4.1	9.9	19.0	1.3	1	11	37.6	<0.1
STD OREAS45E	Standard	0.038	10.5	1098	0.17	275	0.560	7.22	0.062	0.36	1.0	97.5	23	1.5	8.3	6.3	0.5	<1	96	7.6	<0.1
STD OREAS45E	Standard	0.036	8.4	985	0.15	260	0.529	6.91	0.052	0.35	1.1	105.2	19	1.3	7.1	6.5	0.6	<1	92	7.2	<0.1
STD OREAS45E	Standard	0.035	11.2	1039	0.16	260	0.535	6.90	0.053	0.34	0.9	100.2	25	1.3	7.8	6.6	0.6	<1	93	6.7	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121 Expected																					

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA370
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.001
Pulp Duplicates									
N252944	Drill Core	16.9	0.2	0.28	1.225	36	3.6	<0.5	0.359
REP N252944	QC	16.8	0.1	0.26	1.360	39	3.6	<0.5	
N252952	Drill Core	6.2	<0.1	0.56	0.269	18	1.9	<0.5	0.495
REP N252952	QC								
REP N252953	QC	0.3	<0.1	<0.05	0.015	<1	1.5	<0.5	
N252961	Drill Core	0.7	<0.1	0.14	0.111	12	0.7	<0.5	0.128
REP N252961	QC	0.8	<0.1	0.11	0.083	15	0.8	<0.5	
N252967	Drill Core	0.6	<0.1	0.54	0.341	15	1.0	<0.5	0.581
REP N252967	QC								0.583
N252978	Drill Core	0.5	<0.1	0.39	0.398	20	1.4	<0.5	0.524
REP N252978	QC	0.5	<0.1	0.31	0.374	19	1.6	<0.5	
Core Reject Duplicates									
N252953	Rock	0.5	<0.1	<0.05	<0.005	1	1.9	<0.5	
DUP N252953	QC	0.5	<0.1	<0.05	<0.005	<1	2.3	<0.5	
Reference Materials									
STD CDN-ME-14	Standard								1.239
STD CDN-ME-9	Standard								0.679
STD OREAS25A-4A	Standard	54.2	4.1	0.11	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.9	4.3	0.13	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.7	4.0	0.11	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	21.4	2.8	0.11	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	20.5	3.2	0.10	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	22.4	3.2	0.09	<0.005	4	<0.5	<0.5	
STD OXD108	Standard								
STD OXD108	Standard								
STD OXD108	Standard								
STD OXI121	Standard								
STD OXI121 Expected									

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

		WGHT Wgt kg 0.01	FA350 Au ppb 2	MA200 Mo ppm 0.1	MA200 Cu ppm 0.1	MA200 Pb ppm 0.1	MA200 Zn ppm 1	MA200 Ag ppm 0.1	MA200 Ni ppm 0.1	MA200 Co ppm 0.2	MA200 Mn ppm 1	MA200 Fe % 0.01	MA200 As ppm 1	MA200 U ppm 0.1	MA200 Th ppm 0.1	MA200 Sr ppm 1	MA200 Cd ppm 0.1	MA200 Sb ppm 0.1	MA200 Bi ppm 0.1	MA200 V ppm 1	MA200 Ca % 0.01
STD OXD108 Expected			414																		
STD OREAS25A-4A Expected				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.5	<0.1	<1	<0.1	0.5	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		4																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.1	5.1	2.8	34	<0.1	0.9	4.1	658	2.18	3	1.3	2.7	207	<0.1	0.2	<0.1	35	1.50
ROCK-VAN	Prep Blank		<2	1.0	5.3	2.9	34	<0.1	1.0	4.4	667	2.20	2	1.2	2.7	210	<0.1	0.1	<0.1	35	1.52

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXD108 Expected																					
STD OREAS25A-4A Expected		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.043	12.5	3	0.50	784	0.214	6.88	3.644	1.85	0.4	58.6	25	1.0	15.8	5.7	0.4	<1	7	3.1	<0.1
ROCK-VAN	Prep Blank	0.045	13.3	3	0.50	793	0.223	7.01	3.676	1.88	0.4	57.4	26	1.0	16.0	5.6	0.4	<1	7	2.9	<0.1

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver BC V6E 4H1 CANADA

Project: Red Dog
Report Date: August 19, 2016

QUALITY CONTROL REPORT VAN16001234.2

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA370 Cu % 0.001
STD OXD108 Expected									
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35	
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09	
STD CDN-ME-14 Expected									1.221
STD CDN-ME-9 Expected									0.654
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								<0.001
Prep Wash									
ROCK-VAN	Prep Blank	36.9	2.0	0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	38.6	1.9	<0.05	<0.005	<1	<0.5	<0.5	

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 10, 2016
Report Date: September 08, 2016
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN16001348.1

CLIENT JOB INFORMATION

Project: Red Dog
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	77	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	3	Sort, label and box pulps			VAN
FA350-Au	80	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
MA200	80	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253042	Drill Core	10.34	221	57.1	1693.0	4.0	19	0.2	3.4	8.5	144	5.10	8	1.0	4.2	46	0.1	0.3	0.7	44	0.53
N253043	Rock	1.24	2	0.2	3.8	0.3	1	<0.1	<0.1	0.8	25	0.04	2	1.5	<0.1	4539	<0.1	0.6	<0.1	2	33.53
N253044	Drill Core	8.47	375	48.1	3100.5	3.4	20	0.3	3.7	7.3	163	5.48	11	0.4	3.2	20	0.1	0.6	0.6	32	0.52
N253045	Drill Core	9.72	186	33.4	2309.1	2.9	20	0.1	3.0	9.0	145	4.84	<1	0.4	2.8	17	0.2	0.3	0.5	35	0.13
N253046	Drill Core	9.06	158	71.9	1342.8	2.2	14	0.4	3.4	9.6	97	4.62	<1	0.4	2.4	22	0.1	0.1	0.4	47	0.38
N253047	Drill Core	8.79	96	3.6	114.1	5.2	58	<0.1	6.3	17.9	991	5.01	1	0.7	1.3	338	0.2	0.2	<0.1	158	3.55
N253048	Drill Core	8.43	69	1.4	48.4	6.0	62	<0.1	6.3	18.6	1089	5.11	1	0.7	1.1	323	0.2	0.2	<0.1	170	3.73
N253049	Drill Core	8.65	124	18.8	895.1	3.1	32	0.2	3.3	9.8	343	4.35	<1	0.8	2.1	127	<0.1	0.2	0.4	63	1.91
N253050	Drill Core	8.74	228	23.6	1691.9	2.5	23	0.3	2.7	10.4	162	4.79	<1	0.4	2.4	33	0.2	<0.1	0.4	43	0.92
N253051	Drill Core	9.24	290	38.3	2620.1	2.8	17	0.2	2.0	8.6	96	3.75	<1	0.5	3.1	21	0.2	<0.1	0.4	36	0.59
N253052	Drill Core	8.64	278	29.3	1595.1	2.3	12	0.2	2.8	9.2	109	4.51	<1	0.6	3.1	29	0.2	0.1	0.4	41	1.66
N253053	Drill Core	5.33	208	37.5	774.5	2.7	14	0.1	1.9	9.2	102	4.55	<1	0.5	3.2	18	<0.1	<0.1	0.4	34	1.04
N253054	Drill Core	5.88	870	82.9	4854.1	12.5	213	0.5	7.5	20.7	405	12.98	1	0.3	0.8	69	0.3	0.2	0.2	201	0.40
N253055	Drill Core	2.69	1202	73.8	>10000	11.9	133	2.0	6.6	13.5	363	8.03	<1	0.3	0.9	11	0.4	0.3	0.7	126	0.08
N253056	Drill Core	6.31	1048	164.6	6234.3	6.8	201	0.7	7.7	15.5	364	10.06	<1	0.4	0.9	24	0.4	0.2	0.2	145	0.16
N253057	Drill Core	10.13	1044	127.1	7362.0	5.4	129	0.6	7.5	16.9	255	10.21	<1	0.4	1.3	10	0.2	0.3	0.6	139	0.12
N253058	Rock Pulp	0.06	628	839.2	6071.3	36.4	61	29.7	19.7	5.7	407	2.87	19	1.5	1.4	272	0.8	72.1	1.7	33	1.21
N253059	Drill Core	9.50	716	99.4	5996.2	4.8	81	0.5	8.1	16.3	143	11.23	<1	0.3	1.0	10	0.3	0.5	0.7	116	0.07
N253060	Drill Core	8.16	841	82.0	4257.8	4.6	195	0.7	6.1	13.0	230	12.67	<1	0.3	1.2	8	0.2	0.3	0.4	100	0.04
N253061	Drill Core	9.36	860	88.9	4239.7	4.0	178	0.9	5.1	14.0	198	11.46	<1	0.2	1.2	3	0.2	0.3	0.3	48	0.02
N253062	Drill Core	8.45	862	159.8	4912.7	4.1	81	0.9	5.8	15.5	151	9.74	4	0.2	0.9	2	0.2	0.2	0.4	51	0.02
N253063	Drill Core	9.77	948	79.1	5911.2	4.0	71	0.8	6.2	13.1	138	9.26	<1	0.3	1.2	2	<0.1	0.3	0.9	52	0.02
N253064	Drill Core	7.91	579	157.4	4170.7	4.7	77	0.6	6.0	15.5	131	11.36	<1	0.2	1.2	3	0.2	0.2	0.6	65	0.03
N253065	Drill Core	8.91	530	76.6	3578.3	4.1	180	0.7	7.9	17.2	195	14.92	<1	0.1	0.8	5	0.2	0.2	0.4	79	0.07
N253066	Drill Core	4.60	724	42.4	4043.3	5.5	89	0.8	9.7	15.6	169	14.08	<1	0.2	0.7	5	0.2	0.3	0.5	97	0.10
N253068	Drill Core	6.21	613	67.7	4796.2	5.7	121	1.1	11.2	23.3	234	12.45	38	0.2	0.7	8	0.1	0.5	1.1	127	0.07
N253069	Drill Core	7.61	592	96.9	3954.3	5.6	267	0.7	10.2	22.8	402	15.72	1	0.2	0.9	14	0.2	0.3	0.3	130	0.14
N253070	Drill Core	5.25	552	53.1	4661.1	6.8	208	0.6	10.7	19.2	349	13.81	<1	0.2	0.9	26	0.3	0.3	0.3	142	0.19
N253071	Drill Core	7.95	527	119.4	4494.7	4.7	207	0.6	10.1	22.8	331	14.29	4	0.2	0.8	13	0.4	0.3	0.3	130	0.12
N253072	Rock	1.66	<2	0.2	7.5	0.3	2	<0.1	0.5	<0.2	27	0.04	<1	1.4	<0.1	4517	<0.1	<0.1	<0.1	<1	36.96

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

		Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253042	Drill Core		0.018	5.3	6	0.86	100	0.061	5.13	1.743	1.18	0.7	20.5	9	3.9	4.2	1.1	0.1	<1	6	9.3	3.5
N253043	Rock		0.004	0.2	2	1.99	5	0.001	0.03	0.004	<0.01	<0.1	0.4	<1	<0.1	0.2	0.1	<0.1	<1	<1	0.3	<0.1
N253044	Drill Core		0.015	2.6	5	1.19	106	0.038	4.54	1.114	1.06	0.5	9.2	5	4.1	4.4	0.6	<0.1	<1	5	11.6	4.0
N253045	Drill Core		0.014	2.3	5	1.36	64	0.037	4.77	0.770	1.38	0.3	9.4	4	2.4	3.1	0.6	<0.1	<1	4	9.3	3.8
N253046	Drill Core		0.020	1.9	7	1.39	48	0.050	4.33	0.567	1.41	1.5	10.2	4	2.2	4.3	0.9	<0.1	<1	5	10.5	4.1
N253047	Drill Core		0.113	10.8	8	1.96	224	0.426	7.97	3.671	0.92	0.4	58.0	24	0.8	19.1	4.2	0.3	1	18	14.6	1.6
N253048	Drill Core		0.100	10.1	9	2.00	341	0.450	8.16	3.982	0.89	0.4	52.7	23	0.6	16.5	4.1	0.3	1	18	17.0	1.8
N253049	Drill Core		0.043	5.3	4	1.58	100	0.153	6.05	1.033	1.62	0.3	20.5	11	1.2	7.9	2.0	0.1	1	7	12.7	2.9
N253050	Drill Core		0.018	3.3	5	1.80	74	0.067	5.81	0.733	1.39	0.2	11.8	6	2.0	3.4	1.1	0.1	1	4	14.0	2.7
N253051	Drill Core		0.021	3.2	4	1.44	42	0.055	4.84	0.745	1.54	0.2	12.1	6	1.9	3.0	1.0	0.1	<1	4	7.7	2.8
N253052	Drill Core		0.030	5.0	4	1.31	70	0.070	5.84	0.772	1.85	0.5	16.2	9	2.0	5.5	1.3	0.1	<1	5	7.6	3.6
N253053	Drill Core		0.031	4.1	4	1.06	65	0.061	5.13	0.689	1.70	0.6	11.1	7	1.9	4.5	1.4	<0.1	<1	4	7.7	3.5
N253054	Drill Core		0.081	3.1	10	2.46	181	0.210	6.86	0.884	1.83	0.2	12.4	8	3.1	9.4	1.7	<0.1	<1	15	10.9	2.7
N253055	Drill Core		0.048	5.3	6	2.24	58	0.191	5.98	0.202	1.77	0.5	12.1	11	3.5	8.0	2.1	<0.1	<1	14	10.4	3.8
N253056	Drill Core		0.078	4.1	11	2.21	257	0.153	6.63	0.425	1.83	0.3	16.4	11	3.2	6.8	1.2	<0.1	<1	13	10.8	1.3
N253057	Drill Core		0.069	6.3	9	2.39	160	0.144	6.48	0.135	1.65	0.2	17.2	14	2.6	7.9	1.1	<0.1	<1	14	9.5	3.1
N253058	Rock Pulp		0.028	7.3	24	0.21	150	0.083	5.94	1.964	2.28	2.4	9.0	15	2.9	5.4	2.0	0.1	1	2	8.6	0.9
N253059	Drill Core		0.059	3.5	9	1.90	53	0.092	5.94	0.232	1.59	0.2	15.0	8	2.7	3.9	0.8	<0.1	<1	12	8.1	4.5
N253060	Drill Core		0.053	4.2	9	1.83	237	0.118	5.14	0.095	1.28	0.3	11.6	8	3.1	3.7	0.9	<0.1	<1	10	7.1	1.8
N253061	Drill Core		0.019	2.3	7	1.45	101	0.058	3.22	0.035	0.58	0.4	7.1	5	2.8	2.2	0.7	<0.1	<1	7	10.4	1.7
N253062	Drill Core		0.018	1.9	9	1.53	101	0.065	3.27	0.035	0.63	0.5	5.5	4	2.5	2.1	1.1	<0.1	<1	7	12.3	2.3
N253063	Drill Core		0.012	2.8	6	1.58	105	0.074	4.02	0.061	0.94	0.2	10.0	6	2.5	3.1	1.0	<0.1	<1	7	9.6	4.1
N253064	Drill Core		0.025	3.6	7	1.49	73	0.085	4.01	0.056	1.06	0.3	8.5	7	3.1	3.6	0.8	<0.1	<1	8	9.0	6.9
N253065	Drill Core		0.047	2.2	14	1.57	94	0.062	3.75	0.048	0.85	0.3	4.7	5	3.1	3.3	0.4	<0.1	<1	8	8.4	4.0
N253066	Drill Core		0.049	2.0	13	1.75	94	0.080	4.52	0.062	1.22	0.2	7.1	4	3.9	4.5	0.6	<0.1	<1	11	9.1	6.6
N253068	Drill Core		0.039	3.3	12	2.01	106	0.102	5.15	0.056	1.38	0.5	7.4	7	3.6	5.5	0.8	<0.1	<1	12	9.1	7.0
N253069	Drill Core		0.061	6.5	22	2.27	172	0.126	5.59	0.109	1.36	0.3	7.1	13	3.4	5.5	0.8	<0.1	<1	13	7.1	2.1
N253070	Drill Core		0.050	3.4	21	2.19	191	0.146	5.89	0.246	1.50	0.3	9.4	7	3.4	4.8	1.0	<0.1	<1	13	11.4	3.4
N253071	Drill Core		0.052	3.5	20	2.54	145	0.097	5.49	0.125	1.23	0.2	7.2	7	2.8	5.1	0.9	<0.1	<1	13	8.2	2.4
N253072	Rock		0.003	0.2	1	2.03	8	0.003	0.05	0.003	<0.01	<0.1	0.3	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.4	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
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CERTIFICATE OF ANALYSIS VAN16001348.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253042	Drill Core	44.4	0.7	0.27	0.302	14	0.6	<0.5
N253043	Rock	0.1	<0.1	<0.05	<0.005	<1	3.3	<0.5
N253044	Drill Core	37.7	0.3	0.33	0.325	19	0.8	<0.5
N253045	Drill Core	47.3	0.3	0.24	0.167	15	0.6	<0.5
N253046	Drill Core	47.2	0.4	0.12	0.307	16	0.5	<0.5
N253047	Drill Core	16.8	1.8	0.08	0.016	<1	<0.5	<0.5
N253048	Drill Core	13.7	1.6	<0.05	<0.005	<1	<0.5	<0.5
N253049	Drill Core	48.6	0.6	0.11	0.099	7	<0.5	<0.5
N253050	Drill Core	44.6	0.5	0.07	0.198	13	<0.5	<0.5
N253051	Drill Core	43.6	0.4	0.21	0.240	11	<0.5	<0.5
N253052	Drill Core	55.3	0.4	0.16	0.326	13	1.1	0.5
N253053	Drill Core	50.4	0.4	0.13	0.187	9	0.5	<0.5
N253054	Drill Core	32.2	0.4	0.66	0.998	8	0.9	0.8
N253055	Drill Core	57.3	0.4	1.55	0.720	16	1.7	0.6
N253056	Drill Core	32.3	0.5	0.85	1.684	9	0.9	0.7
N253057	Drill Core	52.8	0.4	0.97	1.304	10	1.6	0.6
N253058	Rock Pulp	48.6	0.4	<0.05	0.688	1	4.1	<0.5
N253059	Drill Core	36.6	0.4	0.80	0.721	16	1.3	0.7
N253060	Drill Core	37.4	0.4	0.79	0.534	10	1.0	<0.5
N253061	Drill Core	18.0	0.2	0.47	0.626	10	1.1	<0.5
N253062	Drill Core	19.1	0.1	0.50	1.079	13	2.0	<0.5
N253063	Drill Core	31.8	0.3	0.73	0.564	14	1.8	<0.5
N253064	Drill Core	34.9	0.2	0.52	1.938	15	3.7	0.5
N253065	Drill Core	27.1	0.1	0.61	0.629	8	2.0	<0.5
N253066	Drill Core	36.1	0.1	0.69	0.425	14	3.9	0.7
N253068	Drill Core	41.3	0.2	0.97	0.576	20	5.4	0.8
N253069	Drill Core	47.3	0.2	0.63	0.828	6	0.5	0.6
N253070	Drill Core	51.4	0.3	0.66	0.481	9	1.4	0.6
N253071	Drill Core	41.6	0.2	0.62	1.070	5	1.1	0.6
N253072	Rock	0.6	<0.1	<0.05	<0.005	<1	6.2	<0.5

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Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253073	Drill Core	7.71	378	94.5	2566.9	6.2	176	0.4	11.4	16.0	308	15.38	8	0.2	0.8	22	0.4	0.5	0.2	144	0.25
N253074	Drill Core	9.22	448	82.8	5805.5	12.1	183	0.9	11.8	21.7	245	14.55	46	0.3	0.5	15	0.4	1.4	2.9	135	0.14
N253075	Drill Core	8.25	543	90.2	3693.4	10.1	138	0.9	8.9	38.3	259	13.14	68	0.3	1.1	17	1.1	1.6	1.3	84	0.15
N253076	Drill Core	6.48	772	79.5	4237.2	7.3	151	0.7	8.5	37.3	252	9.93	10	0.2	0.9	13	0.6	0.4	0.6	73	0.10
N253077	Drill Core	8.29	514	120.4	2950.6	6.8	115	0.4	8.7	15.0	233	12.78	3	0.2	0.9	8	0.3	0.3	0.7	99	0.13
N253078	Drill Core	9.11	507	66.2	2830.0	10.8	96	0.5	10.0	14.8	213	13.38	117	0.3	1.2	15	0.3	2.0	1.3	108	0.16
N253079	Drill Core	9.86	647	45.7	3331.4	8.5	47	0.5	10.5	20.3	132	11.26	68	0.2	0.7	26	0.2	1.3	0.7	105	0.23
N253080	Drill Core	9.97	381	30.0	3054.5	9.3	33	0.5	10.7	15.9	96	15.39	5	0.3	0.9	23	0.6	0.6	3.2	116	0.15
N253081	Rock Pulp	0.06	213	406.0	1958.4	26.9	58	13.2	15.0	10.4	681	3.66	14	1.2	2.0	423	0.6	32.5	2.0	87	2.87
N253082	Drill Core	9.75	375	28.0	2309.6	3.5	58	0.4	8.4	14.3	244	14.52	4	0.2	0.9	18	0.1	0.5	0.2	125	0.49
N253083	Drill Core	8.94	753	28.4	3711.7	7.7	144	1.0	10.9	13.1	271	11.49	2	0.2	0.9	68	0.5	0.2	0.3	104	0.49
N253084	Drill Core	8.48	693	49.1	3827.2	4.9	127	0.6	9.4	14.4	239	11.91	3	0.2	0.9	6	0.2	0.2	0.5	113	0.24
N253085	Drill Core	8.98	776	24.7	4185.4	5.5	91	0.7	9.6	21.0	212	12.97	4	0.2	0.8	7	0.3	0.3	0.5	95	0.27
N253086	Drill Core	8.27	542	37.0	2792.1	5.0	119	0.4	10.5	18.2	230	13.09	3	0.2	1.0	22	<0.1	0.2	0.5	130	0.20
N253087	Drill Core	8.76	875	34.1	3827.7	4.3	203	0.6	8.3	17.3	307	13.76	<1	0.2	1.4	26	0.2	0.2	0.2	104	0.21
N253088	Drill Core	3.57	568	43.5	2997.7	4.5	235	0.5	7.3	19.8	299	15.71	<1	0.2	2.8	14	0.5	0.1	0.3	60	0.15
N253090	Drill Core	9.83	960	39.9	4012.8	4.2	119	0.9	11.4	25.3	245	13.59	2	0.2	1.0	12	0.3	0.2	0.3	124	0.24
N253091	Drill Core	9.63	452	37.1	2603.2	5.5	37	0.2	14.6	20.5	102	12.30	3	0.3	1.0	9	<0.1	0.2	0.6	170	0.30
N253092	Drill Core	7.84	418	23.1	2169.7	4.6	97	0.4	10.2	14.2	205	12.77	1	0.2	0.9	26	0.1	0.2	0.4	149	0.20
N253093	Rock	2.41	3	0.2	9.7	0.2	1	<0.1	0.5	<0.2	24	0.05	4	1.4	<0.1	4209	<0.1	<0.1	<0.1	1	37.07
N253094	Drill Core	9.25	641	39.5	3082.1	5.2	63	0.5	13.8	20.4	212	10.89	4	0.3	1.1	15	0.2	0.7	0.4	155	0.20
N253095	Drill Core	10.01	402	18.5	2835.4	5.4	80	0.8	10.7	24.6	204	14.49	15	0.2	1.4	23	0.2	0.3	0.4	120	0.40
N253096	Drill Core	8.04	488	20.6	3218.5	4.7	92	1.6	10.2	20.1	238	15.47	8	0.1	0.7	29	0.2	0.1	0.3	134	0.42
N253097	Drill Core	10.57	384	20.5	2726.7	4.0	66	0.7	13.2	17.2	195	15.95	8	0.2	0.9	14	<0.1	0.3	0.7	131	0.25
N253098	Drill Core	9.98	610	19.0	3809.9	4.6	92	0.9	8.7	12.1	263	16.27	16	0.1	0.9	11	0.2	0.3	0.4	108	0.21
N253099	Drill Core	9.58	523	31.5	3563.4	3.9	65	0.9	10.8	20.8	220	15.30	19	0.2	1.0	23	0.2	0.4	0.5	127	0.58
N253100	Drill Core	8.21	161	38.7	874.2	18.6	11	0.2	8.1	13.7	43	12.82	17	0.2	1.3	116	0.1	0.5	0.7	107	1.73
N253101	Drill Core	7.34	263	40.2	2058.5	7.4	18	0.2	7.0	11.2	75	12.79	5	0.3	1.2	26	0.1	0.4	0.8	83	0.74
N253102	Rock Pulp	0.06	596	857.4	5979.1	39.8	58	28.1	19.0	5.1	422	2.87	21	1.4	1.8	302	0.7	71.2	1.9	33	1.22
N253103	Drill Core	9.08	347	16.1	2765.2	3.2	17	0.4	11.2	8.7	84	14.89	10	0.2	0.6	12	0.1	1.0	1.2	152	0.90

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	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253073	Drill Core	0.081	3.9	26	2.62	148	0.146	6.55	0.172	1.56	0.3	8.0	9	3.8	9.2	1.5	<0.1	<1	15	13.6	2.6
N253074	Drill Core	0.055	1.4	13	1.96	66	0.106	4.87	0.077	1.31	0.4	5.7	4	4.0	8.5	1.1	<0.1	<1	14	10.1	9.5
N253075	Drill Core	0.044	2.2	16	1.84	57	0.108	4.89	0.075	1.07	0.7	8.7	5	3.3	5.8	1.4	<0.1	<1	12	11.1	6.3
N253076	Drill Core	0.043	2.7	11	1.82	74	0.064	4.02	0.210	0.74	0.2	5.0	10	2.0	7.4	0.5	<0.1	<1	7	8.8	3.8
N253077	Drill Core	0.050	2.1	21	1.99	108	0.125	4.54	0.082	1.08	0.2	5.1	5	3.4	8.1	0.9	<0.1	<1	12	8.9	5.3
N253078	Drill Core	0.059	2.3	15	1.92	73	0.156	5.07	0.091	1.38	0.4	7.3	5	4.3	9.7	1.4	<0.1	<1	15	9.8	8.7
N253079	Drill Core	0.067	2.1	18	1.54	115	0.101	4.97	0.166	1.32	0.3	6.3	6	3.8	5.9	0.7	<0.1	<1	14	11.4	6.4
N253080	Drill Core	0.054	1.6	18	1.47	32	0.086	5.36	0.174	1.58	0.4	6.5	5	3.3	10.7	0.7	<0.1	<1	20	8.2	>10
N253081	Rock Pulp	0.061	8.4	21	0.90	736	0.207	7.08	2.360	1.74	1.6	10.4	21	3.0	11.9	2.7	0.2	<1	10	7.7	0.3
N253082	Drill Core	0.054	2.6	28	2.35	111	0.100	6.05	0.247	1.44	0.1	5.8	8	3.0	7.2	0.8	<0.1	<1	15	8.6	1.5
N253083	Drill Core	0.062	3.5	28	2.22	102	0.104	5.64	0.909	0.95	0.1	6.3	9	2.3	9.5	1.1	<0.1	<1	13	6.3	1.4
N253084	Drill Core	0.043	2.6	18	2.19	89	0.071	4.20	0.081	0.90	0.1	3.9	6	2.3	5.6	0.5	<0.1	<1	11	7.3	3.2
N253085	Drill Core	0.042	2.6	17	1.83	68	0.062	4.13	0.090	0.86	0.1	3.3	7	2.8	4.9	0.4	<0.1	<1	10	7.8	3.8
N253086	Drill Core	0.051	3.0	20	2.17	109	0.101	5.42	0.385	1.02	0.2	6.3	8	3.2	6.1	0.8	<0.1	<1	13	7.0	5.2
N253087	Drill Core	0.058	3.5	20	2.28	92	0.073	5.20	0.350	0.89	0.1	6.5	9	3.3	6.4	0.6	<0.1	<1	11	8.5	2.2
N253088	Drill Core	0.026	3.5	8	1.80	83	0.049	4.74	0.251	0.96	0.1	6.8	8	4.2	4.5	0.4	<0.1	<1	7	7.9	1.4
N253090	Drill Core	0.049	3.1	22	2.29	85	0.070	5.06	0.123	0.84	0.2	6.2	8	4.5	4.7	0.6	<0.1	<1	16	7.0	1.7
N253091	Drill Core	0.058	2.7	14	1.65	87	0.093	5.47	0.181	1.56	0.3	9.1	8	12.1	5.5	0.7	<0.1	<1	31	6.9	6.6
N253092	Drill Core	0.050	2.9	18	1.46	109	0.064	5.47	0.188	1.19	0.1	8.0	8	4.4	5.8	0.6	<0.1	<1	23	6.6	5.8
N253093	Rock	0.003	0.2	3	2.04	7	0.001	0.06	0.004	<0.01	<0.1	0.4	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.5	<0.1
N253094	Drill Core	0.043	3.7	18	2.58	103	0.110	5.97	0.089	1.04	0.3	9.6	9	7.5	6.8	0.9	<0.1	<1	18	9.0	4.4
N253095	Drill Core	0.061	2.5	23	1.99	122	0.131	6.17	0.172	1.27	0.4	6.5	7	6.2	6.8	1.1	<0.1	<1	15	9.7	3.2
N253096	Drill Core	0.055	2.1	24	2.24	87	0.079	5.13	0.263	0.76	0.2	4.6	6	3.2	4.8	0.8	<0.1	<1	12	6.8	2.3
N253097	Drill Core	0.060	2.4	29	2.17	128	0.138	6.08	0.101	1.56	0.3	7.0	6	5.5	8.3	1.2	<0.1	<1	15	9.2	4.9
N253098	Drill Core	0.063	1.9	24	2.15	96	0.061	4.88	0.118	0.90	0.2	4.1	5	3.6	5.0	0.5	<0.1	<1	13	9.1	2.2
N253099	Drill Core	0.065	2.8	25	2.01	109	0.085	5.49	0.105	1.02	0.2	6.1	7	4.5	5.5	0.8	<0.1	<1	13	8.6	4.1
N253100	Drill Core	0.069	2.6	11	0.39	15	0.075	4.69	0.134	0.64	0.4	6.5	7	3.6	12.4	0.6	<0.1	<1	10	7.7	>10
N253101	Drill Core	0.049	1.5	5	1.01	64	0.098	4.42	0.078	0.55	0.3	6.6	4	3.6	6.7	0.9	<0.1	<1	9	6.5	8.5
N253102	Rock Pulp	0.028	7.1	25	0.20	129	0.084	5.77	1.763	2.27	2.8	9.5	16	3.0	6.6	2.2	0.1	1	2	6.4	0.9
N253103	Drill Core	0.064	1.7	24	1.91	139	0.068	5.37	0.053	0.95	0.2	5.6	5	2.6	4.4	0.4	<0.1	<1	18	9.3	6.7

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253073	Drill Core	52.2	0.2	0.75	0.709	7	1.4	0.7
N253074	Drill Core	26.0	0.2	1.36	0.771	20	6.8	0.8
N253075	Drill Core	39.9	0.2	0.97	0.797	13	2.9	1.2
N253076	Drill Core	27.3	0.1	1.04	0.794	11	1.7	<0.5
N253077	Drill Core	41.3	0.1	0.72	1.971	11	2.9	0.5
N253078	Drill Core	50.0	0.5	0.76	0.743	13	4.2	1.0
N253079	Drill Core	37.2	0.2	0.73	0.359	12	1.4	0.8
N253080	Drill Core	55.5	0.2	0.70	0.228	22	2.8	0.7
N253081	Rock Pulp	38.1	0.6	<0.05	0.410	<1	1.1	<0.5
N253082	Drill Core	49.8	0.2	0.66	0.170	4	0.7	<0.5
N253083	Drill Core	35.4	0.2	0.96	0.179	5	0.7	<0.5
N253084	Drill Core	32.5	0.1	1.08	0.398	10	1.7	<0.5
N253085	Drill Core	32.9	<0.1	1.16	0.179	11	1.7	<0.5
N253086	Drill Core	42.7	0.2	0.84	0.271	15	1.9	0.5
N253087	Drill Core	37.6	0.2	1.33	0.172	8	<0.5	0.5
N253088	Drill Core	36.8	0.2	1.30	0.309	6	0.7	<0.5
N253090	Drill Core	36.1	0.2	1.55	0.276	7	0.7	<0.5
N253091	Drill Core	50.7	0.2	0.83	0.243	17	2.1	0.9
N253092	Drill Core	43.6	0.2	0.69	0.160	12	1.8	0.6
N253093	Rock	0.6	<0.1	<0.05	<0.005	<1	1.9	<0.5
N253094	Drill Core	39.9	0.3	1.00	0.313	14	1.3	0.5
N253095	Drill Core	38.9	0.2	0.77	0.069	15	0.6	0.6
N253096	Drill Core	25.6	0.1	0.93	0.092	8	1.2	<0.5
N253097	Drill Core	49.7	0.3	0.74	0.115	13	2.2	0.7
N253098	Drill Core	30.4	0.1	0.82	0.136	9	0.7	0.6
N253099	Drill Core	33.8	0.2	0.80	0.255	13	1.1	0.5
N253100	Drill Core	19.2	0.2	<0.05	0.199	14	1.2	<0.5
N253101	Drill Core	19.7	0.2	0.14	0.179	14	1.0	<0.5
N253102	Rock Pulp	56.4	0.5	<0.05	0.718	<1	3.6	<0.5
N253103	Drill Core	16.8	0.2	0.45	0.078	13	1.7	0.6

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253104	Drill Core	7.00	301	24.3	2735.2	9.6	18	0.3	12.8	10.4	57	12.41	7	0.2	0.8	48	<0.1	0.5	1.6	115	0.98
N253105	Drill Core	10.79	593	26.4	3426.3	4.3	35	0.5	10.5	13.0	82	13.27	19	0.2	1.2	9	0.1	0.4	1.1	100	1.35
N253106	Drill Core	9.61	526	17.9	3206.3	4.3	29	0.4	11.5	12.6	58	13.93	<1	0.2	0.9	10	<0.1	0.3	1.7	115	1.54
N253107	Drill Core	9.44	531	42.9	5046.1	5.9	24	0.4	11.5	19.6	61	11.70	7	0.2	0.7	19	0.1	0.4	1.1	91	1.47
N253108	Drill Core	10.54	407	26.7	2811.2	9.0	30	0.6	8.3	19.1	83	11.71	24	0.2	2.2	24	0.1	0.6	1.1	78	1.40
N253109	Drill Core	4.87	350	24.2	2707.5	10.0	38	0.5	6.2	16.3	85	13.03	10	0.2	2.6	20	0.1	0.4	1.7	53	0.79
N253111	Drill Core	10.42	519	23.8	2945.6	3.9	55	0.8	6.9	14.9	128	14.30	13	0.2	1.2	6	<0.1	0.2	0.7	82	1.09
N253112	Drill Core	11.19	422	41.7	2556.4	4.0	77	0.8	7.4	14.4	180	12.68	6	0.3	1.7	11	<0.1	0.3	0.8	115	1.24
N253113	Drill Core	10.29	435	27.9	3232.8	3.8	35	0.7	9.3	22.8	102	10.94	29	0.3	1.1	14	0.2	0.3	1.2	115	1.59
N253114	Drill Core	9.58	317	18.0	3172.7	3.6	33	0.5	10.5	27.0	68	10.96	44	0.3	1.6	13	<0.1	0.4	1.2	127	1.02
N253115	Drill Core	11.32	371	21.9	3536.6	4.1	23	0.6	7.5	16.7	67	10.12	16	0.2	1.4	8	0.1	1.6	1.0	64	1.21
N253116	Drill Core	10.50	399	62.3	4288.1	4.8	19	0.6	6.2	15.6	48	8.61	15	0.2	1.6	8	0.2	0.2	1.1	48	1.23
N252949	Drill Core	3.90	747	102.1	4466.7	3.4	33	0.5	2.7	14.4	156	11.43	<1	0.2	1.1	2	<0.1	0.3	0.5	20	0.02
N252970	Drill Core	4.41	666	32.6	3899.0	3.6	24	0.3	3.5	17.5	46	11.39	1	0.1	0.5	1	0.2	0.3	0.4	14	<0.01
N252993	Drill Core	4.05	426	46.5	3508.9	4.2	18	0.2	2.5	26.5	68	9.63	3	0.2	0.8	<1	0.3	0.6	0.4	12	0.03
N253016	Drill Core	4.85	296	112.4	1723.1	5.7	13	0.1	3.6	13.5	48	6.65	<1	0.3	1.5	6	0.2	0.3	0.5	33	0.78
N253039	Drill Core	4.78	315	98.2	1410.0	5.9	19	0.1	2.4	12.8	118	5.59	<1	0.7	4.8	21	0.2	0.2	0.8	45	2.16
N253067	Drill Core	5.11	705	39.7	3907.0	5.2	95	0.7	10.8	16.6	217	14.34	<1	0.2	0.9	6	0.1	0.2	0.4	98	0.10
N253089	Drill Core	3.71	670	54.1	3402.7	4.7	198	0.5	8.0	27.9	296	16.36	2	0.2	3.0	15	0.3	0.2	0.3	57	0.15
N253110	Drill Core	4.95	378	30.3	2557.9	10.1	35	0.4	7.8	15.8	90	13.45	8	0.3	2.8	21	0.2	0.4	1.5	56	0.61

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Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001348.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253104	Drill Core	0.072	3.0	19	0.80	20	0.070	4.94	0.063	0.89	0.3	5.6	9	3.0	8.7	0.6	<0.1	<1	15	3.5	>10
N253105	Drill Core	0.089	3.1	17	1.86	97	0.112	5.07	0.031	0.91	0.2	6.5	8	3.5	5.5	0.9	<0.1	<1	12	7.8	6.8
N253106	Drill Core	0.053	2.2	14	1.47	87	0.084	5.04	0.037	1.27	0.2	6.6	6	4.2	4.4	0.7	<0.1	<1	13	5.1	>10
N253107	Drill Core	0.042	1.9	12	1.16	42	0.076	4.07	0.033	0.66	0.4	4.4	5	4.6	5.4	0.8	<0.1	<1	12	5.4	9.6
N253108	Drill Core	0.075	2.9	4	1.18	101	0.081	4.36	0.030	0.58	0.3	5.6	7	3.3	6.3	0.6	<0.1	<1	8	10.7	7.9
N253109	Drill Core	0.034	1.5	4	1.13	30	0.063	4.18	0.037	0.68	0.3	5.1	4	3.4	4.2	0.5	<0.1	<1	6	6.1	8.0
N253111	Drill Core	0.041	1.4	7	1.77	73	0.054	4.17	0.027	0.65	0.2	4.2	4	3.0	3.3	0.5	<0.1	<1	9	5.7	3.8
N253112	Drill Core	0.062	2.5	9	2.60	121	0.126	6.18	0.061	1.15	0.3	7.7	6	3.8	4.8	1.0	<0.1	<1	13	8.5	3.4
N253113	Drill Core	0.048	3.3	5	1.72	128	0.122	4.88	0.045	0.91	0.3	10.4	8	3.6	5.8	0.8	<0.1	<1	12	7.3	6.2
N253114	Drill Core	0.050	2.3	7	2.00	124	0.102	5.01	0.040	0.71	0.2	15.3	6	4.3	6.5	0.9	<0.1	<1	13	7.5	8.4
N253115	Drill Core	0.051	1.7	5	1.09	116	0.068	3.31	0.035	0.54	0.3	3.1	4	3.7	3.7	0.6	<0.1	<1	6	5.2	6.0
N253116	Drill Core	0.024	1.1	4	0.93	66	0.048	2.96	0.036	0.60	0.3	4.7	3	3.5	4.1	0.5	<0.1	<1	6	5.1	6.8
N252949	Drill Core	0.002	1.8	4	1.02	63	0.040	2.57	0.021	0.39	0.5	5.2	3	2.8	1.0	1.3	<0.1	<1	3	5.6	3.1
N252970	Drill Core	0.002	0.3	4	0.35	7	0.011	0.64	0.012	0.02	0.4	1.7	<1	3.9	1.0	1.4	<0.1	<1	2	3.8	4.9
N252993	Drill Core	<0.001	0.6	3	0.46	8	0.016	0.79	0.013	0.02	0.5	1.6	1	4.3	2.6	1.2	<0.1	<1	2	2.5	3.9
N253016	Drill Core	0.003	1.2	4	0.11	82	0.037	2.68	0.078	0.79	0.5	4.8	2	4.2	5.8	0.7	<0.1	<1	4	4.2	5.3
N253039	Drill Core	0.013	5.2	4	0.74	89	0.059	5.23	0.329	1.22	0.6	15.4	10	3.6	10.0	0.9	<0.1	<1	8	4.5	5.1
N253067	Drill Core	0.047	2.1	15	1.87	101	0.084	4.72	0.070	1.29	0.2	6.4	6	3.3	5.3	0.6	<0.1	<1	11	9.1	6.1
N253089	Drill Core	0.027	3.9	6	1.70	88	0.049	4.89	0.252	0.88	0.2	6.2	9	4.5	5.0	0.4	<0.1	<1	7	6.7	1.4
N253110	Drill Core	0.032	1.6	4	1.18	71	0.070	4.33	0.036	0.55	0.2	5.0	4	3.3	4.8	0.6	<0.1	<1	6	7.4	7.7

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253104	Drill Core	30.0	0.2	0.30	0.074	17	1.6	<0.5
N253105	Drill Core	29.7	0.2	0.56	0.110	11	1.0	0.6
N253106	Drill Core	28.6	0.1	0.45	0.070	26	3.0	0.6
N253107	Drill Core	23.7	0.2	0.49	0.191	30	1.3	<0.5
N253108	Drill Core	17.9	0.2	0.55	0.150	15	1.0	<0.5
N253109	Drill Core	21.6	0.2	0.55	0.122	25	1.4	<0.5
N253111	Drill Core	22.0	0.2	0.85	0.111	11	1.0	<0.5
N253112	Drill Core	38.1	0.2	0.78	0.247	10	0.8	0.8
N253113	Drill Core	25.4	0.3	0.91	0.147	17	1.7	<0.5
N253114	Drill Core	21.3	0.4	0.74	0.081	27	1.5	<0.5
N253115	Drill Core	16.1	0.1	0.83	0.078	18	1.4	<0.5
N253116	Drill Core	18.3	0.1	0.62	0.236	24	1.3	<0.5
N252949	Drill Core	10.4	0.2	0.36	1.291	11	1.0	<0.5
N252970	Drill Core	0.7	<0.1	0.44	1.272	17	0.9	<0.5
N252993	Drill Core	1.2	<0.1	0.13	0.202	14	0.9	<0.5
N253016	Drill Core	24.9	0.2	0.15	0.554	16	1.6	<0.5
N253039	Drill Core	44.3	0.5	0.15	0.831	12	2.6	0.6
N253067	Drill Core	42.5	0.2	0.55	0.314	14	3.1	0.6
N253089	Drill Core	35.8	0.2	1.53	0.347	5	<0.5	<0.5
N253110	Drill Core	18.7	0.2	0.63	0.122	19	1.2	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001348.1

	Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
N253047	Drill Core	8.79	96	3.6	114.1	5.2	58	<0.1	6.3	17.9	991	5.01	1	0.7	1.3	338	0.2	0.2	<0.1	158	3.55
REP N253047	QC		108																		
N253052	Drill Core	8.64	278	29.3	1595.1	2.3	12	0.2	2.8	9.2	109	4.51	<1	0.6	3.1	29	0.2	0.1	0.4	41	1.66
REP N253052	QC			30.1	1607.3	2.4	13	0.1	2.5	9.3	110	4.55	<1	0.6	3.3	28	<0.1	<0.1	0.4	41	1.68
N253079	Drill Core	9.86	647	45.7	3331.4	8.5	47	0.5	10.5	20.3	132	11.26	68	0.2	0.7	26	0.2	1.3	0.7	105	0.23
REP N253079	QC			42.6	3274.7	8.9	46	0.6	10.2	21.0	136	11.11	71	0.2	0.9	27	0.3	1.3	0.8	103	0.22
N253080	Drill Core	9.97	381	30.0	3054.5	9.3	33	0.5	10.7	15.9	96	15.39	5	0.3	0.9	23	0.6	0.6	3.2	116	0.15
REP N253080	QC		404																		
N253086	Drill Core	8.27	542	37.0	2792.1	5.0	119	0.4	10.5	18.2	230	13.09	3	0.2	1.0	22	<0.1	0.2	0.5	130	0.20
REP N253086	QC			36.5	2766.6	5.2	118	0.5	10.1	17.4	245	12.95	2	0.2	1.0	21	0.2	0.2	0.5	129	0.23
N253101	Drill Core	7.34	263	40.2	2058.5	7.4	18	0.2	7.0	11.2	75	12.79	5	0.3	1.2	26	0.1	0.4	0.8	83	0.74
REP N253101	QC		255																		
N253116	Drill Core	10.50	399	62.3	4288.1	4.8	19	0.6	6.2	15.6	48	8.61	15	0.2	1.6	8	0.2	0.2	1.1	48	1.23
REP N253116	QC		393																		
N253089	Drill Core	3.71	670	54.1	3402.7	4.7	198	0.5	8.0	27.9	296	16.36	2	0.2	3.0	15	0.3	0.2	0.3	57	0.15
REP N253089	QC			57.8	3480.8	4.7	210	0.5	8.1	29.5	313	16.61	3	0.2	3.3	15	0.4	0.2	0.3	59	0.15
Core Reject Duplicates																					
N253042	Drill Core	10.34	221	57.1	1693.0	4.0	19	0.2	3.4	8.5	144	5.10	8	1.0	4.2	46	0.1	0.3	0.7	44	0.53
DUP N253042	QC		226	55.3	1677.1	3.9	19	0.2	3.7	8.6	148	5.00	4	0.9	4.4	47	0.1	0.3	0.6	43	0.62
N253077	Drill Core	8.29	514	120.4	2950.6	6.8	115	0.4	8.7	15.0	233	12.78	3	0.2	0.9	8	0.3	0.3	0.7	99	0.13
DUP N253077	QC		525	116.9	2930.4	6.7	118	0.4	9.1	15.5	218	12.89	3	0.2	0.9	9	0.4	0.3	0.7	101	0.13
N253113	Drill Core	10.29	435	27.9	3232.8	3.8	35	0.7	9.3	22.8	102	10.94	29	0.3	1.1	14	0.2	0.3	1.2	115	1.59
DUP N253113	QC		446	26.8	3288.8	4.1	36	0.7	9.5	24.3	103	11.29	31	0.3	1.1	15	0.3	0.3	1.2	117	1.72
Reference Materials																					
STD OREAS25A-4A	Standard			2.9	37.5	26.7	44	<0.1	46.3	7.6	508	6.87	9	2.9	17.2	42	<0.1	0.6	0.4	165	0.28
STD OREAS25A-4A	Standard			2.4	37.5	26.1	42	<0.1	48.0	8.0	471	6.86	9	2.8	13.8	42	0.2	0.6	0.3	171	0.26
STD OREAS25A-4A	Standard			2.4	36.2	25.1	43	<0.1	44.4	8.1	524	6.74	11	2.8	15.5	48	<0.1	0.6	0.4	166	0.30
STD OREAS25A-4A	Standard			2.2	35.9	27.8	48	<0.1	45.1	7.9	468	6.56	10	3.0	16.8	49	<0.1	0.7	0.6	159	0.28

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Project: Red Dog

Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001348.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N253047	Drill Core	0.113	10.8	8	1.96	224	0.426	7.97	3.671	0.92	0.4	58.0	24	0.8	19.1	4.2	0.3	1	18	14.6	1.6
REP N253047	QC																				
N253052	Drill Core	0.030	5.0	4	1.31	70	0.070	5.84	0.772	1.85	0.5	16.2	9	2.0	5.5	1.3	0.1	<1	5	7.6	3.6
REP N253052	QC	0.031	5.4	5	1.31	56	0.068	5.99	0.775	1.89	0.5	15.2	10	2.3	5.6	1.2	0.1	<1	6	8.0	3.6
N253079	Drill Core	0.067	2.1	18	1.54	115	0.101	4.97	0.166	1.32	0.3	6.3	6	3.8	5.9	0.7	<0.1	<1	14	11.4	6.4
REP N253079	QC	0.070	2.7	19	1.56	70	0.098	5.38	0.174	1.37	0.3	6.3	8	3.6	6.6	0.8	<0.1	<1	15	11.2	6.3
N253080	Drill Core	0.054	1.6	18	1.47	32	0.086	5.36	0.174	1.58	0.4	6.5	5	3.3	10.7	0.7	<0.1	<1	20	8.2	>10
REP N253080	QC																				
N253086	Drill Core	0.051	3.0	20	2.17	109	0.101	5.42	0.385	1.02	0.2	6.3	8	3.2	6.1	0.8	<0.1	<1	13	7.0	5.2
REP N253086	QC	0.053	3.0	20	2.15	103	0.098	5.38	0.384	1.07	0.1	6.4	8	3.0	6.1	0.8	<0.1	<1	14	8.0	5.2
N253101	Drill Core	0.049	1.5	5	1.01	64	0.098	4.42	0.078	0.55	0.3	6.6	4	3.6	6.7	0.9	<0.1	<1	9	6.5	8.5
REP N253101	QC																				
N253116	Drill Core	0.024	1.1	4	0.93	66	0.048	2.96	0.036	0.60	0.3	4.7	3	3.5	4.1	0.5	<0.1	<1	6	5.1	6.8
REP N253116	QC																				
N253089	Drill Core	0.027	3.9	6	1.70	88	0.049	4.89	0.252	0.88	0.2	6.2	9	4.5	5.0	0.4	<0.1	<1	7	6.7	1.4
REP N253089	QC	0.023	4.1	7	1.72	98	0.057	5.00	0.269	0.92	0.2	7.0	9	5.0	4.7	0.4	<0.1	<1	7	7.0	1.4
Core Reject Duplicates																					
N253042	Drill Core	0.018	5.3	6	0.86	100	0.061	5.13	1.743	1.18	0.7	20.5	9	3.9	4.2	1.1	0.1	<1	6	9.3	3.5
DUP N253042	QC	0.018	5.8	5	0.86	98	0.050	5.61	1.714	1.20	0.6	18.4	10	3.9	4.4	0.8	<0.1	<1	7	10.0	3.3
N253077	Drill Core	0.050	2.1	21	1.99	108	0.125	4.54	0.082	1.08	0.2	5.1	5	3.4	8.1	0.9	<0.1	<1	12	8.9	5.3
DUP N253077	QC	0.051	2.2	20	1.95	116	0.125	4.53	0.082	1.12	0.2	5.8	5	3.5	7.6	1.0	<0.1	<1	13	8.7	5.5
N253113	Drill Core	0.048	3.3	5	1.72	128	0.122	4.88	0.045	0.91	0.3	10.4	8	3.6	5.8	0.8	<0.1	<1	12	7.3	6.2
DUP N253113	QC	0.048	3.5	5	1.71	121	0.129	4.92	0.045	0.94	0.2	11.4	8	4.1	6.0	0.8	<0.1	<1	13	7.5	6.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.042	22.5	121	0.32	152	0.915	9.26	0.109	0.43	2.0	140.8	50	3.8	10.9	20.5	1.4	<1	13	41.1	<0.1
STD OREAS25A-4A	Standard	0.051	19.1	119	0.33	153	0.955	8.69	0.127	0.51	2.0	163.0	42	4.1	9.2	20.7	1.5	<1	12	40.4	<0.1
STD OREAS25A-4A	Standard	0.050	21.4	115	0.38	144	0.896	8.60	0.122	0.49	2.1	161.9	50	4.1	10.7	19.8	1.4	<1	13	37.3	<0.1
STD OREAS25A-4A	Standard	0.054	24.7	120	0.34	157	0.844	9.03	0.142	0.47	1.8	144.3	50	4.2	10.2	17.7	1.3	1	13	42.2	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001348.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253047	Drill Core	16.8	1.8	0.08	0.016	<1	<0.5	<0.5
REP N253047	QC							
N253052	Drill Core	55.3	0.4	0.16	0.326	13	1.1	0.5
REP N253052	QC	57.6	0.5	0.06	0.329	15	1.7	0.6
N253079	Drill Core	37.2	0.2	0.73	0.359	12	1.4	0.8
REP N253079	QC	39.7	0.2	0.74	0.378	14	1.4	0.8
N253080	Drill Core	55.5	0.2	0.70	0.228	22	2.8	0.7
REP N253080	QC							
N253086	Drill Core	42.7	0.2	0.84	0.271	15	1.9	0.5
REP N253086	QC	41.6	0.2	0.92	0.261	15	1.6	<0.5
N253101	Drill Core	19.7	0.2	0.14	0.179	14	1.0	<0.5
REP N253101	QC							
N253116	Drill Core	18.3	0.1	0.62	0.236	24	1.3	<0.5
REP N253116	QC							
N253089	Drill Core	35.8	0.2	1.53	0.347	5	<0.5	<0.5
REP N253089	QC	36.4	0.2	1.81	0.394	6	0.6	0.5
Core Reject Duplicates								
N253042	Drill Core	44.4	0.7	0.27	0.302	14	0.6	<0.5
DUP N253042	QC	46.0	0.6	0.22	0.309	13	0.5	<0.5
N253077	Drill Core	41.3	0.1	0.72	1.971	11	2.9	0.5
DUP N253077	QC	44.1	0.1	0.74	1.936	11	2.7	0.6
N253113	Drill Core	25.4	0.3	0.91	0.147	17	1.7	<0.5
DUP N253113	QC	25.2	0.3	0.96	0.135	18	1.1	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	57.2	4.1	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	55.4	4.5	0.13	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	68.8	4.4	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	59.5	4.3	0.11	<0.005	3	<0.5	<0.5

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QUALITY CONTROL REPORT VAN16001348.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.6	828.2	18.5	42	0.3	482.0	67.6	577	25.47	16	2.5	13.1	14	<0.1	0.9	0.3	331	0.08
STD OREAS45E	Standard			2.5	837.3	19.2	48	0.3	492.0	62.8	536	25.95	17	2.6	12.9	17	0.2	1.0	0.3	344	0.07
STD OREAS45E	Standard			2.6	845.3	20.4	48	0.3	495.1	62.2	596	25.94	19	2.6	14.5	16	<0.1	1.2	0.4	342	0.07
STD OREAS45E	Standard			2.4	777.7	21.1	47	0.3	462.3	61.4	570	25.11	17	2.8	14.4	18	<0.1	1.1	0.3	326	0.08
STD OXD108	Standard		403																		
STD OXD108	Standard		406																		
STD OXD108	Standard		436																		
STD OXD108	Standard		416																		
STD OXD108	Standard		400																		
STD OXI121	Standard		1819																		
STD OXI121	Standard		1869																		
STD OXI121	Standard		1782																		
STD OREAS25A-4A Expected				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXD108 Expected			414																		
STD OXI121 Expected			1834																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		6																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.6	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		

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QUALITY CONTROL REPORT VAN16001348.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS45E	Standard	0.035	13.3	1098	0.19	288	0.541	7.11	0.058	0.33	1.0	104.7	29	1.6	10.0	7.4	0.6	<1	99	7.2	<0.1
STD OREAS45E	Standard	0.034	10.6	1117	0.15	269	0.556	7.22	0.052	0.37	1.0	105.2	22	1.4	7.8	6.5	0.6	<1	92	6.7	<0.1
STD OREAS45E	Standard	0.036	11.3	1131	0.19	274	0.554	7.24	0.058	0.33	1.0	106.1	28	1.4	9.7	6.8	0.5	<1	96	6.3	<0.1
STD OREAS45E	Standard	0.038	12.7	1075	0.17	262	0.517	6.97	0.062	0.33	1.1	95.3	25	1.4	8.5	5.8	0.5	<1	95	7.8	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OREAS25A-4A Expected		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXD108 Expected																					
STD OXI121 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001348.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E	Standard	23.4	3.5	0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.5	2.8	0.14	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	25.2	3.0	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.0	0.14	<0.005	2	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09
STD OXD108 Expected								
STD OXI121 Expected								
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							

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QUALITY CONTROL REPORT VAN16001348.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.3	5.4	3.0	36	<0.1	1.2	4.4	641	2.14	2	1.3	2.8	205	0.1	0.1	<0.1	37	1.49
ROCK-VAN	Prep Blank		<2	1.5	4.8	2.8	34	<0.1	1.7	4.3	658	2.16	2	1.2	2.7	213	<0.1	0.1	<0.1	37	1.53

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QUALITY CONTROL REPORT VAN16001348.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.041	13.0	3	0.52	901	0.225	6.83	3.617	1.94	0.4	58.9	24	0.9	15.8	6.1	0.4	1	7	3.5	<0.1
ROCK-VAN	Prep Blank	0.047	13.2	5	0.51	896	0.222	7.05	3.737	1.82	0.4	58.3	25	0.8	16.6	5.6	0.4	1	7	3.3	<0.1

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QUALITY CONTROL REPORT VAN16001348.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
Prep Wash								
ROCK-VAN	Prep Blank	42.4	2.0	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	42.3	2.0	<0.05	<0.005	<1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 18, 2016
Report Date: September 07, 2016
Page: 1 of 6

CERTIFICATE OF ANALYSIS VAN16001432.1

CLIENT JOB INFORMATION

Project: Red Dog
Shipment ID:
P.O. Number
Number of Samples: 140

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	134	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA350-Au	140	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
MA200	140	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253117	Rock	1.45	<2	<0.1	1.0	0.6	4	<0.1	0.7	<0.2	31	0.06	<1	1.5	<0.1	5049	<0.1	0.3	<0.1	<1	35.52
N253118	Drill Core	8.50	504	18.7	5336.5	8.0	33	1.1	8.8	20.5	64	9.52	17	0.2	1.8	11	0.2	0.5	1.3	72	0.37
N253119	Drill Core	11.02	490	27.2	3922.0	6.2	55	1.0	11.7	21.3	121	11.13	17	0.2	1.5	11	0.3	0.6	0.9	98	0.50
N253120	Drill Core	11.44	226	28.2	2835.9	3.4	30	0.5	9.1	23.3	85	13.35	10	0.2	1.2	8	0.1	0.4	0.8	104	0.51
N253121	Drill Core	9.71	382	22.5	3303.5	3.7	36	0.5	10.0	30.1	110	9.66	22	0.1	1.5	5	0.1	0.4	0.8	87	0.24
N253122	Drill Core	10.61	348	23.6	3506.5	3.9	27	0.4	7.9	22.8	70	7.02	18	0.1	1.2	5	0.1	0.3	1.0	53	0.34
N253123	Rock Pulp	0.05	194	394.5	1972.6	25.4	63	14.0	15.2	10.9	775	3.72	14	1.0	1.8	414	0.6	32.9	1.9	86	2.87
N253124	Drill Core	11.88	275	28.5	2108.1	3.5	27	0.3	10.2	20.2	83	10.76	13	0.2	1.0	7	0.1	0.6	1.0	110	0.49
N253125	Drill Core	11.01	278	24.7	1889.3	3.9	54	0.6	9.8	14.9	156	14.21	22	0.2	1.2	4	0.2	0.6	0.8	99	0.47
N253126	Drill Core	10.27	383	26.3	1912.6	2.8	62	0.5	12.0	17.5	181	13.97	23	0.2	0.8	9	<0.1	0.6	0.7	119	0.99
N253127	Drill Core	11.15	376	25.5	2178.3	2.4	49	0.4	11.7	15.3	164	13.72	24	0.1	0.7	9	<0.1	0.4	0.6	132	0.61
N253128	Drill Core	11.76	370	23.8	2156.2	2.8	31	0.2	11.8	19.0	95	12.29	25	0.2	0.8	8	<0.1	0.4	1.0	124	0.70
N253129	Drill Core	4.35	294	26.3	2783.1	3.2	27	0.3	11.1	21.1	90	9.09	16	0.2	0.6	12	<0.1	0.5	1.3	93	2.06
N253131	Drill Core	10.31	268	27.1	1843.8	2.8	37	0.2	11.6	19.8	127	10.08	13	0.2	0.8	12	0.1	0.6	1.2	137	2.33
N253132	Drill Core	9.40	367	26.1	3087.9	3.3	44	0.4	11.4	20.6	130	11.16	27	0.2	0.6	10	<0.1	0.4	1.5	112	2.33
N253133	Drill Core	10.13	313	20.4	2426.0	3.1	34	0.3	11.3	19.6	106	9.78	10	0.1	0.7	11	0.1	0.5	1.5	98	1.88
N253134	Drill Core	10.18	649	20.5	1801.1	2.5	23	0.4	8.7	14.2	114	9.90	7	0.1	1.3	5	0.1	0.6	0.7	60	0.44
N253135	Drill Core	10.39	363	40.8	2085.9	3.4	19	0.2	10.2	17.3	74	9.45	15	0.2	1.3	9	0.1	0.4	1.0	67	0.78
N253136	Rock	1.69	2	0.1	4.7	0.1	1	<0.1	<0.1	<0.2	34	0.07	<1	1.3	<0.1	4042	<0.1	<0.1	<0.1	1	34.66
N253137	Drill Core	10.39	119	16.6	1706.3	3.8	10	<0.1	9.4	19.2	51	8.38	16	0.2	1.3	25	<0.1	0.7	0.8	80	3.59
N253138	Drill Core	8.00	129	17.3	1319.2	2.7	14	<0.1	11.8	29.2	72	12.08	41	0.2	1.3	22	<0.1	0.4	1.4	106	3.02
N253139	Drill Core	5.02	71	9.9	1565.4	5.8	7	<0.1	7.7	18.6	35	8.87	8	0.1	1.2	66	<0.1	0.5	1.2	74	11.48
N253140	Drill Core	3.15	421	64.3	3636.6	14.5	471	0.8	7.4	22.2	612	12.22	3	0.6	1.5	112	0.3	0.3	0.9	154	0.99
N253141	Drill Core	6.57	1232	86.7	4936.9	15.9	433	1.4	7.3	16.0	581	11.42	3	0.5	1.4	87	0.3	0.4	0.5	161	0.74
N253142	Drill Core	9.73	1169	136.7	4558.6	17.7	293	1.1	6.5	16.4	506	8.56	3	0.5	1.3	81	0.5	0.5	0.7	140	0.75
N253143	Drill Core	6.48	543	85.1	4583.3	27.8	251	1.4	6.2	18.1	442	10.42	3	0.6	1.1	34	0.4	0.4	0.9	139	0.30
N253144	Drill Core	6.20	834	95.7	6015.6	16.9	317	1.0	9.5	26.4	558	8.93	3	0.5	0.9	81	0.4	0.3	0.4	167	0.69
N253145	Drill Core	4.37	598	57.6	3245.8	17.6	275	0.6	7.4	20.2	368	10.06	<1	0.5	1.2	172	0.7	0.3	<0.1	185	1.38
N253146	Rock Pulp	0.05	597	870.4	6258.3	39.6	61	31.3	19.8	6.4	446	3.06	19	1.1	1.6	295	0.8	76.2	1.8	33	1.28
N253147	Drill Core	3.44	555	66.7	2930.0	16.9	299	0.8	6.4	15.6	392	9.52	5	0.6	1.4	87	0.3	0.8	0.1	161	0.48

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CERTIFICATE OF ANALYSIS VAN16001432.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253117	Rock	0.003	0.1	1	1.93	34	<0.001	<0.01	0.005	<0.01	<0.1	0.3	<1	<0.1	0.2	<0.1	<0.1	<1	<1	<0.1	<0.1
N253118	Drill Core	0.032	1.2	4	1.90	88	0.084	4.44	0.047	0.97	0.3	11.2	3	9.3	3.4	0.7	<0.1	<1	7	6.9	6.9
N253119	Drill Core	0.049	4.4	20	2.16	122	0.107	5.06	0.051	0.98	0.2	7.2	10	7.3	8.5	0.8	<0.1	<1	11	7.9	3.6
N253120	Drill Core	0.041	1.7	18	2.13	106	0.117	5.04	0.046	1.08	0.3	4.9	5	4.9	4.6	0.9	<0.1	<1	11	8.2	6.1
N253121	Drill Core	0.047	1.6	9	2.30	86	0.111	5.05	0.049	1.05	1.0	5.6	4	4.1	3.5	1.3	<0.1	<1	10	8.1	5.1
N253122	Drill Core	0.025	0.7	3	1.59	54	0.053	3.22	0.044	0.63	0.2	3.7	2	2.9	2.5	0.4	<0.1	<1	6	5.4	6.2
N253123	Rock Pulp	0.053	7.6	20	0.92	724	0.202	7.30	2.330	1.82	1.6	9.7	18	2.8	11.1	2.7	0.1	<1	9	8.3	0.3
N253124	Drill Core	0.045	1.6	12	1.70	55	0.081	4.67	0.078	1.23	0.6	9.0	4	5.2	4.2	0.5	<0.1	<1	10	6.1	7.3
N253125	Drill Core	0.043	1.4	10	2.33	73	0.131	4.55	0.038	0.82	0.3	5.5	4	3.6	4.1	0.7	<0.1	<1	9	7.5	6.6
N253126	Drill Core	0.070	2.3	26	2.87	104	0.149	5.50	0.044	0.95	0.6	4.1	6	3.5	5.5	0.8	<0.1	<1	14	10.4	5.8
N253127	Drill Core	0.056	2.1	25	2.65	111	0.110	5.73	0.057	1.13	0.2	5.6	5	3.4	3.9	0.7	<0.1	<1	14	7.1	3.6
N253128	Drill Core	0.058	1.9	23	1.95	77	0.090	5.54	0.066	1.39	0.2	5.7	5	4.1	3.7	0.5	<0.1	<1	14	6.6	6.8
N253129	Drill Core	0.045	2.3	17	1.44	55	0.059	4.37	0.068	1.06	0.2	4.4	6	3.3	4.0	0.5	<0.1	<1	11	6.2	7.1
N253131	Drill Core	0.052	2.7	22	2.24	107	0.129	5.91	0.064	1.32	0.3	6.1	7	5.2	4.3	0.7	<0.1	<1	17	6.6	7.9
N253132	Drill Core	0.042	2.2	20	2.06	57	0.086	4.58	0.045	0.91	0.3	3.9	6	3.2	4.1	0.6	<0.1	<1	13	6.5	7.9
N253133	Drill Core	0.053	2.0	16	2.23	91	0.084	4.95	0.051	1.14	0.2	4.4	5	4.1	4.7	0.7	<0.1	<1	14	7.8	8.9
N253134	Drill Core	0.051	1.4	10	2.02	73	0.106	4.19	0.041	0.72	0.3	5.1	4	4.1	3.6	0.9	<0.1	<1	7	6.5	5.2
N253135	Drill Core	0.047	1.7	10	1.33	35	0.062	4.25	0.060	0.99	0.4	4.7	5	4.1	5.4	0.5	<0.1	<1	11	6.1	9.6
N253136	Rock	0.003	<0.1	3	1.95	8	0.002	0.05	0.003	0.01	<0.1	0.5	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.2	<0.1
N253137	Drill Core	0.038	2.1	7	0.39	54	0.063	3.50	0.047	0.85	0.8	6.0	5	5.1	8.4	0.6	<0.1	<1	10	6.1	9.0
N253138	Drill Core	0.045	1.7	10	1.26	44	0.112	5.33	0.069	0.97	0.3	6.5	4	4.4	6.3	0.7	<0.1	<1	12	6.4	>10
N253139	Drill Core	0.044	1.7	4	0.23	42	0.045	2.14	0.025	0.41	0.2	2.3	5	6.7	16.1	0.4	<0.1	<1	6	2.3	>10
N253140	Drill Core	0.080	6.5	9	2.95	188	0.306	7.13	0.958	1.08	0.7	20.5	16	3.6	17.1	2.9	0.2	1	15	9.7	2.2
N253141	Drill Core	0.071	6.3	10	2.88	181	0.312	6.44	0.659	1.03	0.6	16.8	15	4.0	15.1	3.2	0.2	1	15	8.2	1.9
N253142	Drill Core	0.060	4.4	9	2.18	55	0.305	6.07	0.751	1.30	0.4	15.6	11	3.6	12.0	3.2	0.2	<1	12	6.4	4.0
N253143	Drill Core	0.059	2.6	8	2.11	37	0.326	5.89	0.414	2.10	0.5	19.0	7	4.5	7.8	3.7	0.2	1	12	7.1	6.6
N253144	Drill Core	0.076	4.1	11	2.90	70	0.319	6.88	0.929	1.38	0.3	19.4	11	3.3	13.1	3.2	0.1	<1	15	8.5	3.8
N253145	Drill Core	0.097	6.0	12	2.65	248	0.331	8.00	1.537	1.09	0.3	25.5	15	2.9	17.5	3.7	0.2	<1	18	10.1	0.3
N253146	Rock Pulp	0.029	7.6	27	0.20	159	0.094	6.22	1.868	2.36	2.6	8.9	16	3.0	6.1	2.1	0.1	<1	2	9.0	1.0
N253147	Drill Core	0.071	5.6	9	2.25	234	0.269	6.60	0.844	1.32	0.5	24.3	13	3.3	9.8	2.8	0.2	<1	14	9.4	0.9

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253117	Rock	<0.1	<0.1	<0.05	<0.005	<1	4.4	<0.5
N253118	Drill Core	28.8	0.2	0.91	0.110	19	1.2	<0.5
N253119	Drill Core	32.1	0.3	1.06	0.154	14	0.7	0.6
N253120	Drill Core	33.1	0.1	0.59	0.126	13	1.1	<0.5
N253121	Drill Core	33.7	0.2	0.79	0.092	13	0.6	0.6
N253122	Drill Core	19.8	<0.1	0.59	0.116	19	1.1	<0.5
N253123	Rock Pulp	34.9	0.6	<0.05	0.412	<1	1.3	<0.5
N253124	Drill Core	21.3	0.3	0.46	0.140	15	1.1	0.6
N253125	Drill Core	26.1	0.2	0.70	0.105	11	0.7	0.5
N253126	Drill Core	34.3	0.1	0.76	0.145	8	0.8	0.7
N253127	Drill Core	35.9	0.2	0.76	0.130	9	0.5	0.7
N253128	Drill Core	39.7	0.1	0.67	0.136	14	1.3	0.8
N253129	Drill Core	35.4	0.1	0.52	0.156	13	1.1	0.7
N253131	Drill Core	46.6	0.2	0.46	0.117	15	1.4	1.0
N253132	Drill Core	30.5	0.1	0.75	0.186	12	1.4	0.7
N253133	Drill Core	35.4	0.2	0.62	0.096	15	1.0	0.8
N253134	Drill Core	23.8	0.2	0.37	0.120	10	0.7	0.6
N253135	Drill Core	30.3	0.2	0.39	0.304	19	1.2	<0.5
N253136	Rock	0.2	<0.1	<0.05	<0.005	<1	2.2	<0.5
N253137	Drill Core	30.1	0.3	0.15	0.091	19	1.1	<0.5
N253138	Drill Core	27.3	0.2	0.16	0.072	18	1.2	<0.5
N253139	Drill Core	14.5	<0.1	0.16	0.049	15	0.9	<0.5
N253140	Drill Core	35.8	0.7	0.51	0.456	8	<0.5	0.6
N253141	Drill Core	38.7	0.5	0.71	0.626	9	<0.5	0.5
N253142	Drill Core	35.7	0.5	0.49	1.335	10	<0.5	0.8
N253143	Drill Core	33.9	0.6	0.64	0.788	14	2.3	1.1
N253144	Drill Core	24.1	0.6	0.67	0.764	11	1.0	0.7
N253145	Drill Core	23.6	0.8	0.44	0.338	3	<0.5	<0.5
N253146	Rock Pulp	51.7	0.4	<0.05	0.682	<1	3.7	<0.5
N253147	Drill Core	29.9	0.8	0.56	0.460	6	<0.5	0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253148	Drill Core	3.26	836	95.3	2264.0	26.2	211	1.5	3.7	10.1	412	7.88	15	0.8	2.9	43	0.3	0.8	0.4	109	0.25
N253149	Drill Core	5.90	36	11.0	716.5	19.2	250	0.1	5.2	17.0	1313	5.50	7	0.9	2.0	334	0.8	0.8	<0.1	197	2.28
N253150	Drill Core	3.98	42	22.5	419.0	12.6	172	0.2	5.2	10.6	1270	5.29	6	0.9	2.0	306	0.2	0.8	<0.1	195	2.30
N253151	Drill Core	5.99	51	20.2	924.9	14.8	212	3.8	6.0	16.7	1180	5.48	26	0.8	2.1	339	0.4	1.1	0.3	201	2.72
N253152	Drill Core	2.55	34	16.7	1054.3	13.9	231	0.4	6.7	20.4	1205	5.35	6	0.8	1.9	298	0.7	1.0	0.2	200	2.30
N253153	Rock	2.29	<2	0.2	5.7	0.3	2	<0.1	<0.1	0.3	29	0.04	<1	1.3	<0.1	4420	<0.1	<0.1	<0.1	<1	37.51
N253154	Drill Core	7.60	525	76.1	3769.8	12.4	254	0.6	7.3	16.9	627	7.62	3	0.6	1.7	125	1.7	1.2	0.2	132	0.90
N253155	Drill Core	7.60	367	55.5	2722.6	16.4	239	0.5	11.1	21.0	402	8.47	8	0.7	2.0	118	0.8	1.0	0.4	139	0.85
N253156	Drill Core	9.11	733	78.4	3154.8	5.3	118	0.5	9.6	13.4	310	8.98	<1	0.5	1.6	44	0.3	0.7	0.4	120	0.25
N253157	Drill Core	9.46	681	76.2	2960.1	5.6	157	0.4	8.6	13.8	286	9.63	1	0.3	2.1	82	0.4	0.3	0.1	110	0.30
N253158	Drill Core	4.39	664	74.6	3987.2	9.9	257	0.6	12.2	17.5	479	9.19	2	0.5	1.4	113	0.6	0.3	0.1	146	0.60
N253159	Drill Core	11.08	580	67.5	3222.4	8.3	220	0.5	9.5	13.5	424	8.85	2	0.3	1.1	107	0.7	0.2	0.2	131	0.52
N253160	Drill Core	7.52	543	61.9	3229.6	10.5	136	0.9	9.6	16.1	382	7.57	<1	0.4	1.7	51	1.1	0.4	0.5	117	0.33
N253161	Drill Core	4.52	476	98.1	2493.8	11.2	137	0.6	9.5	17.7	301	10.87	3	0.4	1.6	38	0.3	0.5	0.6	119	0.24
N253163	Drill Core	7.30	740	92.9	3067.6	6.6	179	0.4	13.8	19.1	393	11.93	1	0.3	1.3	95	0.8	0.3	0.1	150	0.55
N253164	Drill Core	3.50	716	56.3	2804.2	7.7	209	0.5	12.8	17.7	381	9.57	4	0.3	1.1	123	1.1	0.2	<0.1	143	0.83
N253165	Drill Core	6.17	614	47.1	2651.6	7.2	196	0.4	13.3	17.0	367	9.36	3	0.4	1.6	151	0.4	0.2	<0.1	144	0.67
N253166	Drill Core	3.82	703	66.0	3889.6	6.3	184	0.5	11.9	18.5	343	9.81	<1	0.3	1.4	84	0.7	0.3	0.2	128	0.82
N253167	Drill Core	6.34	790	64.6	4265.4	6.9	187	0.7	10.6	21.7	369	8.71	<1	0.4	1.3	82	0.6	0.3	0.2	113	0.45
N253168	Drill Core	8.75	478	92.2	3546.8	13.9	93	0.4	11.6	20.4	123	8.38	<1	0.3	1.4	12	0.4	0.6	0.7	121	1.11
N253169	Drill Core	4.53	471	68.0	4298.2	9.9	106	0.5	11.9	13.2	139	6.35	<1	0.3	0.9	26	0.6	0.4	0.8	113	0.32
N253170	Drill Core	8.53	449	77.5	2179.4	6.5	188	0.3	13.1	19.2	385	10.27	2	0.3	1.1	74	0.5	0.8	0.2	146	0.66
N253171	Drill Core	8.58	535	27.6	2692.5	7.6	238	0.4	14.2	17.3	384	8.08	<1	0.4	1.6	326	0.7	0.2	<0.1	164	1.79
N253172	Drill Core	5.45	504	36.0	2557.1	7.7	251	0.4	14.0	17.6	389	8.61	5	0.4	1.6	276	0.9	0.3	0.2	146	1.71
N253173	Rock Pulp	0.05	199	381.1	1983.2	24.5	58	11.9	15.2	10.3	715	3.56	12	0.9	1.7	399	0.5	31.5	1.8	83	2.65
N253174	Drill Core	4.49	444	134.8	3193.3	9.9	191	0.7	15.6	16.5	302	7.20	<1	0.4	1.3	117	0.8	0.5	0.5	141	0.63
N253175	Drill Core	6.67	680	69.7	3348.1	13.5	361	0.8	19.5	19.7	394	9.42	3	0.4	1.2	200	2.1	0.3	0.1	181	1.19
N253176	Drill Core	9.75	362	64.9	2402.2	12.4	198	0.5	15.5	21.7	266	8.88	<1	0.4	1.5	175	1.0	0.4	0.4	151	1.95
N253177	Drill Core	5.75	542	24.2	2499.0	6.5	173	0.4	20.7	23.0	287	13.16	8	0.3	1.2	87	0.6	0.6	0.3	239	0.73
N253178	Rock	1.56	<2	0.2	5.8	0.2	1	<0.1	0.2	0.5	27	0.04	<1	1.4	<0.1	4410	<0.1	<0.1	<0.1	<1	37.52

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

		Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253148	Drill Core		0.090	6.4	8	1.55	204	0.222	6.61	0.723	1.43	1.8	30.5	14	3.2	7.5	2.8	0.2	<1	11	7.9	1.1
N253149	Drill Core		0.057	8.6	8	2.11	203	0.448	8.41	2.449	1.63	0.9	39.0	18	1.2	13.8	3.8	0.3	<1	22	5.6	1.6
N253150	Drill Core		0.058	7.2	8	2.01	573	0.444	8.42	2.834	1.17	0.6	37.2	16	1.8	11.3	3.8	0.2	<1	21	6.0	0.2
N253151	Drill Core		0.057	9.1	7	2.05	136	0.424	8.29	2.228	0.85	18.1	45.3	19	1.8	15.3	3.9	0.3	<1	22	5.9	1.8
N253152	Drill Core		0.057	9.3	7	2.27	56	0.393	8.27	1.780	1.13	2.2	46.0	20	1.6	18.2	3.6	0.2	<1	20	5.9	3.1
N253153	Rock		0.004	0.1	1	2.01	6	0.002	0.04	0.008	<0.01	<0.1	0.5	<1	<0.1	0.2	0.1	<0.1	<1	<1	0.1	<0.1
N253154	Drill Core		0.055	8.7	7	2.07	46	0.193	6.34	0.882	1.16	0.4	25.4	19	2.7	15.6	2.1	0.1	<1	14	10.4	3.6
N253155	Drill Core		0.086	9.0	14	1.72	47	0.172	7.51	1.005	2.01	0.5	33.8	21	4.1	14.8	2.1	0.1	<1	13	10.2	4.2
N253156	Drill Core		0.052	6.1	13	1.94	40	0.095	6.58	0.902	1.47	0.2	18.2	14	2.9	6.5	0.8	<0.1	<1	14	8.4	3.1
N253157	Drill Core		0.046	5.5	14	1.68	190	0.105	6.01	0.824	1.41	0.3	14.2	11	2.2	6.8	1.1	<0.1	<1	10	7.7	1.8
N253158	Drill Core		0.069	9.2	22	2.14	207	0.157	6.82	1.201	1.33	0.4	17.8	20	2.6	14.8	1.4	<0.1	<1	14	7.3	0.9
N253159	Drill Core		0.067	7.3	16	2.05	185	0.159	6.17	1.040	1.33	0.2	13.5	17	2.3	11.3	1.4	<0.1	<1	13	8.4	0.9
N253160	Drill Core		0.062	6.6	11	2.06	124	0.138	6.45	0.775	1.86	0.3	22.2	17	3.1	11.1	1.3	<0.1	<1	13	9.7	3.1
N253161	Drill Core		0.058	5.5	10	2.06	35	0.139	5.74	0.982	1.42	0.2	15.7	14	3.0	13.1	1.4	0.1	<1	11	7.0	7.8
N253163	Drill Core		0.069	5.9	18	2.25	115	0.157	6.53	1.412	1.00	0.2	10.9	14	2.3	16.0	1.3	<0.1	<1	14	7.5	1.6
N253164	Drill Core		0.074	5.2	24	2.48	125	0.192	7.05	1.487	0.95	0.2	11.8	12	2.2	14.7	1.8	<0.1	<1	15	9.1	1.0
N253165	Drill Core		0.062	6.9	17	2.08	153	0.166	7.12	1.909	1.19	0.3	16.1	16	2.1	15.0	1.6	<0.1	1	15	8.8	1.0
N253166	Drill Core		0.071	7.8	14	2.25	155	0.132	6.89	1.038	1.48	0.4	19.0	18	2.6	15.4	1.2	<0.1	1	13	10.5	2.0
N253167	Drill Core		0.064	6.7	14	2.08	144	0.125	5.85	0.963	1.06	0.4	15.6	16	2.2	12.4	1.0	<0.1	<1	11	9.3	2.3
N253168	Drill Core		0.065	5.7	10	1.76	52	0.097	6.00	0.240	2.10	0.3	16.7	14	2.7	10.7	1.1	<0.1	<1	13	8.1	7.2
N253169	Drill Core		0.054	4.9	14	1.82	102	0.113	5.65	0.193	1.75	0.4	10.8	12	2.2	10.0	1.1	<0.1	<1	13	7.8	5.0
N253170	Drill Core		0.090	5.8	13	2.64	176	0.152	7.33	0.658	1.89	0.2	17.3	15	2.2	13.3	1.4	<0.1	1	14	8.8	4.3
N253171	Drill Core		0.084	6.9	16	2.21	67	0.273	8.37	3.774	0.29	0.3	19.6	18	2.3	17.7	2.8	0.1	<1	17	5.9	0.6
N253172	Drill Core		0.082	7.8	16	2.34	96	0.206	8.08	2.704	0.50	0.3	16.9	20	2.0	19.4	2.1	<0.1	<1	17	8.3	1.2
N253173	Rock Pulp		0.050	8.3	20	0.89	675	0.208	7.19	2.283	1.81	1.4	9.4	17	2.6	10.8	2.6	0.2	<1	9	9.4	0.2
N253174	Drill Core		0.081	6.1	13	2.23	150	0.168	7.25	1.403	1.63	0.4	14.9	16	1.9	13.2	1.5	<0.1	<1	14	9.5	3.2
N253175	Drill Core		0.079	8.8	13	2.19	86	0.194	7.12	2.297	0.55	0.3	16.0	21	1.9	22.1	1.6	<0.1	1	14	9.4	2.8
N253176	Drill Core		0.076	8.6	15	1.60	94	0.162	7.41	1.887	1.00	0.3	19.1	22	2.4	18.0	1.5	<0.1	<1	15	7.8	4.2
N253177	Drill Core		0.074	7.3	27	1.79	119	0.137	6.54	0.438	1.24	0.4	15.4	17	2.7	11.8	1.2	<0.1	<1	15	13.3	4.0
N253178	Rock		0.003	0.2	1	1.86	6	0.002	0.04	0.005	<0.01	<0.1	0.3	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.3	<0.1

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253148	Drill Core	50.0	0.9	0.58	0.535	11	1.0	0.5
N253149	Drill Core	39.2	1.2	0.21	0.078	2	0.8	0.6
N253150	Drill Core	19.5	1.1	0.18	0.170	1	0.5	<0.5
N253151	Drill Core	18.7	1.3	0.34	0.199	2	0.7	<0.5
N253152	Drill Core	24.2	1.4	0.26	0.148	4	1.2	<0.5
N253153	Rock	0.2	<0.1	<0.05	<0.005	<1	1.6	<0.5
N253154	Drill Core	35.7	0.8	0.70	0.565	9	1.6	0.6
N253155	Drill Core	60.3	1.0	0.48	0.439	10	2.2	0.9
N253156	Drill Core	45.7	0.6	0.54	0.783	10	1.9	0.6
N253157	Drill Core	49.1	0.5	0.55	0.734	6	0.8	0.6
N253158	Drill Core	38.9	0.5	0.80	0.779	4	0.7	0.5
N253159	Drill Core	41.1	0.4	0.63	1.200	5	0.7	0.6
N253160	Drill Core	48.9	0.6	0.59	1.007	8	1.3	0.7
N253161	Drill Core	42.0	0.5	0.48	0.823	11	2.8	0.6
N253163	Drill Core	35.2	0.3	0.60	0.992	6	1.3	<0.5
N253164	Drill Core	30.0	0.3	0.67	0.449	5	<0.5	<0.5
N253165	Drill Core	41.6	0.5	0.50	0.372	4	<0.5	<0.5
N253166	Drill Core	47.9	0.5	0.67	0.590	8	1.1	0.6
N253167	Drill Core	37.0	0.4	0.81	0.565	10	0.8	<0.5
N253168	Drill Core	65.2	0.5	0.70	0.766	22	3.9	0.9
N253169	Drill Core	46.5	0.3	0.45	0.486	16	3.9	0.8
N253170	Drill Core	36.7	0.5	0.47	0.539	6	2.1	0.9
N253171	Drill Core	6.5	0.5	0.70	0.172	3	<0.5	<0.5
N253172	Drill Core	12.7	0.5	0.56	0.215	3	<0.5	<0.5
N253173	Rock Pulp	33.2	0.5	0.06	0.369	<1	1.0	<0.5
N253174	Drill Core	46.0	0.4	0.82	0.890	8	1.7	0.6
N253175	Drill Core	18.7	0.4	0.79	0.422	5	1.0	<0.5
N253176	Drill Core	26.2	0.5	0.62	0.576	10	1.0	<0.5
N253177	Drill Core	38.4	0.6	0.76	0.163	7	1.7	0.6
N253178	Rock	0.2	<0.1	<0.05	<0.005	<1	2.4	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253179	Drill Core	7.44	451	32.3	2480.6	6.6	191	0.4	21.2	18.6	331	10.19	22	0.4	0.9	69	0.4	0.9	0.2	206	0.37
N253180	Drill Core	5.67	256	20.0	1286.7	8.2	54	0.3	11.9	13.0	102	4.74	25	0.3	1.2	116	0.3	1.1	0.6	140	0.46
N253181	Drill Core	2.08	300	61.0	2951.0	7.8	111	0.3	15.0	21.7	175	8.91	46	0.4	1.8	81	0.4	2.9	0.6	129	1.03
N253183	Drill Core	6.01	495	30.3	1939.4	6.6	184	0.3	14.6	19.1	291	9.72	22	0.4	2.1	52	0.3	1.1	0.5	145	1.38
N253184	Drill Core	5.81	446	40.1	2588.9	9.2	145	0.3	15.8	23.5	182	9.49	4	0.4	1.6	29	0.5	0.6	0.8	166	0.46
N253185	Drill Core	6.74	232	57.9	1194.2	8.6	72	0.4	13.4	17.9	106	6.63	5	0.4	1.1	178	0.5	0.5	0.5	172	0.57
N253186	Drill Core	7.57	409	51.2	2368.2	8.9	219	0.5	17.6	20.9	379	7.43	6	0.6	1.3	195	0.6	0.5	0.2	191	1.17
N253187	Drill Core	4.86	321	42.4	2451.9	11.0	193	0.4	19.0	18.4	314	7.87	11	0.5	1.1	117	0.3	0.5	0.3	212	1.00
N253188	Drill Core	7.43	301	18.9	2325.4	15.6	166	0.3	17.6	16.7	328	9.21	14	0.3	0.8	51	0.4	0.6	0.5	217	0.52
N253189	Drill Core	9.57	332	20.8	2183.2	11.8	175	0.4	22.5	17.1	272	8.61	8	0.4	1.2	209	0.5	0.4	0.3	228	1.46
N253190	Drill Core	8.10	395	23.8	3109.5	14.5	236	0.4	21.2	24.0	355	7.94	7	0.4	1.2	252	0.9	0.5	0.3	202	1.99
N253191	Drill Core	5.91	268	32.5	2931.4	12.2	159	0.3	18.5	20.6	223	6.36	8	0.5	1.1	94	0.5	0.5	0.4	210	0.81
N253192	Drill Core	4.40	195	17.5	1518.3	7.3	100	0.4	20.5	18.7	215	8.89	4	0.4	0.7	119	0.2	0.4	1.3	209	0.78
N253193	Drill Core	5.05	208	20.8	2222.1	6.4	71	0.2	20.0	27.9	191	7.65	8	0.4	0.8	82	0.1	0.4	0.7	224	0.69
N253194	Drill Core	2.45	212	25.7	2052.8	5.2	28	0.2	17.5	30.6	70	5.91	5	0.4	1.0	88	0.2	0.4	0.7	179	3.59
N253195	Drill Core	4.82	174	20.7	1297.3	9.7	25	0.2	19.2	21.3	50	6.58	8	0.5	1.6	85	0.2	1.1	0.9	184	2.66
N253196	Drill Core	6.59	287	9.0	3394.3	6.8	49	0.3	13.0	32.2	162	6.15	19	0.3	2.7	54	0.1	0.4	0.8	112	0.50
N253197	Drill Core	5.71	488	12.9	2479.3	5.7	80	0.3	15.5	12.6	271	10.20	6	0.3	1.4	190	0.2	0.2	0.1	184	1.57
N253198	Drill Core	8.35	346	8.4	1525.3	8.0	93	0.3	18.2	11.5	312	11.82	9	0.3	1.1	120	0.2	0.2	1.0	211	1.49
N253199	Drill Core	6.51	178	10.3	791.1	6.8	104	0.2	13.1	9.8	364	10.73	7	0.3	1.2	124	0.2	0.2	0.5	198	1.69
N253200	Rock Pulp	0.05	616	869.7	6154.8	37.0	60	30.4	20.1	5.9	432	2.95	20	1.4	1.6	288	0.8	76.7	1.8	34	1.31
N253201	Drill Core	10.03	314	10.8	951.1	5.8	121	0.3	12.2	16.1	413	13.48	17	0.4	1.1	49	0.2	0.9	1.0	246	1.94
N253202	Drill Core	9.33	165	7.7	1127.7	4.5	99	0.3	19.6	21.5	706	6.73	14	0.5	1.3	126	0.2	0.6	0.4	197	2.28
N253203	Drill Core	10.60	133	15.9	1843.0	7.1	50	0.2	14.1	10.2	203	6.44	5	0.5	1.2	73	0.2	0.4	4.1	216	1.94
N253204	Rock	2.57	<2	<0.1	3.1	0.2	<1	<0.1	0.1	<0.2	30	0.04	3	1.4	<0.1	4517	<0.1	<0.1	<0.1	2	34.88
N253205	Drill Core	9.78	360	10.9	1235.5	6.5	62	0.2	19.7	12.1	228	6.77	5	0.4	1.2	219	<0.1	0.2	0.1	234	1.88
N253206	Drill Core	8.40	129	11.7	768.1	4.8	64	0.1	11.8	12.9	201	5.22	6	0.3	1.0	161	<0.1	0.2	0.1	198	2.66
N253207	Drill Core	5.31	152	11.4	1548.7	6.8	85	<0.1	16.1	16.0	161	5.95	8	0.4	1.3	66	0.4	0.3	0.4	166	2.60
N253209	Drill Core	4.99	209	27.9	206.7	25.1	11	0.2	0.9	2.0	96	3.51	<1	0.8	2.7	274	0.1	0.6	0.8	54	0.31
N253210	Drill Core	6.13	197	24.7	156.9	26.5	7	0.4	0.6	0.5	39	3.38	1	0.7	3.0	411	<0.1	0.7	1.8	45	0.09

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Vancouver British Columbia V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS VAN16001432.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253179	Drill Core	0.081	4.3	27	2.21	164	0.147	6.84	0.335	1.40	0.4	16.0	11	2.5	8.3	1.2	<0.1	<1	15	18.7	3.6
N253180	Drill Core	0.067	7.8	22	0.72	139	0.134	5.92	0.352	1.64	0.5	15.0	18	1.8	9.9	1.3	<0.1	<1	11	24.1	4.0
N253181	Drill Core	0.061	6.9	8	1.57	44	0.118	5.71	0.256	1.38	0.4	16.6	17	3.9	9.1	1.4	<0.1	<1	12	9.5	7.1
N253183	Drill Core	0.059	5.2	8	2.64	78	0.142	6.41	0.230	1.33	0.4	16.1	14	2.5	9.1	1.7	0.1	<1	13	13.3	5.1
N253184	Drill Core	0.097	4.0	11	1.74	78	0.133	5.84	0.165	1.82	0.6	14.7	11	3.2	8.5	1.4	<0.1	<1	14	8.8	6.6
N253185	Drill Core	0.091	9.3	21	0.73	119	0.134	7.37	0.558	2.17	1.1	16.3	23	2.5	9.3	1.1	<0.1	<1	12	12.3	4.9
N253186	Drill Core	0.099	9.3	24	2.66	117	0.216	8.29	1.915	0.93	0.5	22.3	22	1.9	16.0	1.8	<0.1	1	18	13.3	1.5
N253187	Drill Core	0.095	7.8	30	2.78	187	0.229	8.23	1.548	1.63	0.3	21.3	19	2.4	14.0	1.9	<0.1	1	19	9.2	2.2
N253188	Drill Core	0.080	4.6	35	2.71	126	0.221	7.25	0.709	1.94	0.3	16.8	12	8.8	7.9	1.9	0.1	<1	17	11.2	4.9
N253189	Drill Core	0.097	8.5	46	2.85	184	0.327	8.18	1.799	1.31	0.2	21.4	20	4.8	14.9	2.6	0.1	1	21	8.5	2.8
N253190	Drill Core	0.085	9.0	44	3.17	133	0.357	8.25	1.726	0.72	0.2	18.8	22	3.8	21.4	3.3	0.2	<1	21	7.7	2.6
N253191	Drill Core	0.088	9.7	38	2.42	226	0.212	7.86	0.983	1.97	0.4	21.0	24	4.0	11.2	1.8	<0.1	<1	19	8.8	2.7
N253192	Drill Core	0.101	3.8	30	2.49	34	0.201	7.71	0.758	1.38	1.0	20.9	12	4.2	8.5	1.6	<0.1	1	19	8.7	5.3
N253193	Drill Core	0.102	5.6	34	2.43	85	0.208	7.43	0.302	1.77	0.3	21.8	14	4.2	6.2	1.6	<0.1	<1	19	7.6	4.1
N253194	Drill Core	0.076	9.9	21	1.02	68	0.110	7.41	0.365	1.82	0.3	20.1	22	3.8	4.9	0.8	<0.1	1	18	3.5	5.4
N253195	Drill Core	0.087	3.7	18	1.10	28	0.153	7.26	0.598	1.54	0.3	23.0	10	5.5	7.7	1.5	0.1	<1	17	5.3	7.1
N253196	Drill Core	0.059	4.1	5	1.83	45	0.102	5.62	0.541	1.20	0.1	16.2	10	3.5	6.9	1.5	0.1	<1	10	7.7	4.0
N253197	Drill Core	0.090	7.8	21	2.36	100	0.131	7.72	1.839	0.54	<0.1	16.7	19	2.6	10.8	1.1	<0.1	1	17	9.6	1.9
N253198	Drill Core	0.098	8.6	18	2.28	84	0.170	7.44	1.145	1.25	0.2	17.6	22	3.7	10.2	1.2	<0.1	<1	17	8.8	6.6
N253199	Drill Core	0.097	7.9	21	2.48	154	0.160	7.90	1.204	1.04	0.1	19.0	19	3.1	10.2	1.3	<0.1	<1	19	9.9	3.9
N253200	Rock Pulp	0.028	7.1	25	0.19	235	0.086	6.17	1.869	2.39	2.4	9.4	15	3.1	5.8	2.1	0.1	1	2	8.9	1.0
N253201	Drill Core	0.096	7.3	15	2.52	64	0.180	7.01	0.322	1.56	0.1	19.9	19	4.6	9.8	1.3	<0.1	<1	20	8.9	7.4
N253202	Drill Core	0.097	7.4	16	2.05	156	0.251	8.98	0.494	1.81	0.1	28.6	17	2.9	10.2	1.7	0.1	<1	22	7.9	2.8
N253203	Drill Core	0.110	6.5	31	2.63	117	0.204	8.34	0.495	2.46	0.1	22.4	15	7.7	9.3	1.5	<0.1	<1	32	7.9	4.1
N253204	Rock	0.004	0.2	3	2.05	6	0.001	0.04	0.003	<0.01	<0.1	0.3	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.3	<0.1
N253205	Drill Core	0.111	5.8	34	3.08	164	0.239	8.47	1.592	1.07	0.1	20.7	14	3.4	10.8	1.7	<0.1	<1	22	10.0	1.7
N253206	Drill Core	0.085	5.4	33	2.80	262	0.193	8.38	1.427	1.57	0.1	22.3	13	4.0	9.7	1.3	<0.1	1	21	8.5	1.4
N253207	Drill Core	0.073	7.4	26	2.70	222	0.181	7.73	0.438	1.81	0.2	22.1	17	3.9	8.1	1.6	<0.1	<1	19	7.7	2.6
N253209	Drill Core	0.051	5.5	6	0.13	135	0.069	4.71	0.184	0.15	0.3	54.0	12	5.8	2.6	0.9	<0.1	<1	4	1.1	0.3
N253210	Drill Core	0.061	7.3	5	0.02	89	0.044	4.41	0.026	0.03	0.4	46.9	17	4.4	1.7	0.6	<0.1	<1	3	0.1	0.1

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CERTIFICATE OF ANALYSIS VAN16001432.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253179	Drill Core	18.8	0.5	0.62	0.286	7	1.6	0.7
N253180	Drill Core	48.1	0.4	0.24	0.114	8	1.2	0.8
N253181	Drill Core	36.2	0.5	0.54	0.518	11	1.7	0.9
N253183	Drill Core	21.1	0.5	0.62	0.216	8	2.4	0.7
N253184	Drill Core	35.2	0.4	0.75	0.305	19	4.2	0.7
N253185	Drill Core	58.0	0.6	0.26	0.352	10	1.7	0.8
N253186	Drill Core	22.5	0.6	0.61	0.412	4	0.7	<0.5
N253187	Drill Core	36.5	0.6	0.59	0.335	4	1.5	0.8
N253188	Drill Core	29.3	0.5	0.52	0.152	6	2.5	1.1
N253189	Drill Core	35.3	0.6	0.46	0.153	5	1.5	0.7
N253190	Drill Core	16.2	0.6	0.69	0.176	6	1.3	<0.5
N253191	Drill Core	42.5	0.6	0.55	0.278	7	1.7	1.0
N253192	Drill Core	22.8	0.6	0.44	0.161	14	2.5	0.9
N253193	Drill Core	22.4	0.6	0.64	0.196	10	2.9	1.1
N253194	Drill Core	41.4	0.6	0.54	0.190	18	2.4	1.0
N253195	Drill Core	27.9	0.7	0.36	0.201	14	2.6	0.8
N253196	Drill Core	32.3	0.5	0.50	0.191	15	1.9	0.7
N253197	Drill Core	15.1	0.5	0.58	0.082	4	0.5	<0.5
N253198	Drill Core	28.5	0.5	0.50	0.087	10	4.0	0.7
N253199	Drill Core	26.5	0.5	0.32	0.074	7	1.7	0.6
N253200	Rock Pulp	49.4	0.4	<0.05	0.653	<1	3.9	<0.5
N253201	Drill Core	31.6	0.6	0.42	0.138	10	3.2	1.2
N253202	Drill Core	39.9	0.8	0.63	0.102	6	2.3	1.1
N253203	Drill Core	39.5	0.6	0.73	0.156	16	1.9	1.3
N253204	Rock	0.2	<0.1	<0.05	0.006	<1	1.7	<0.5
N253205	Drill Core	16.8	0.6	0.26	0.086	6	0.7	0.5
N253206	Drill Core	20.9	0.6	0.21	0.092	4	0.6	0.8
N253207	Drill Core	40.8	0.6	0.31	0.121	8	1.3	0.9
N253209	Drill Core	3.2	1.5	<0.05	0.018	11	<0.5	<0.5
N253210	Drill Core	0.9	1.4	<0.05	0.007	11	<0.5	<0.5

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Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253211	Drill Core	5.75	395	27.2	306.1	14.5	7	0.4	0.4	0.4	28	6.30	2	0.6	2.9	163	<0.1	0.9	1.2	60	0.06
N253212	Drill Core	5.25	699	22.1	503.5	11.5	6	0.5	0.7	1.6	40	5.39	14	0.5	3.1	117	<0.1	2.2	1.3	58	0.06
N253213	Drill Core	7.36	353	23.1	362.7	7.2	6	0.3	0.4	0.6	28	4.98	24	0.6	3.1	92	0.2	2.0	1.7	57	0.06
N253214	Drill Core	3.86	238	20.9	180.7	15.4	6	0.4	0.6	0.4	36	3.39	4	0.5	2.7	182	<0.1	0.8	0.8	46	0.05
N253215	Drill Core	5.58	371	13.7	264.8	11.6	5	0.2	0.3	0.4	25	2.67	20	0.7	3.3	98	0.1	2.4	1.3	63	0.05
N253216	Rock Pulp	0.05	195	365.4	1932.3	24.0	60	13.3	14.1	10.2	712	3.57	12	0.9	1.9	401	0.5	32.2	1.9	83	2.84
N253217	Drill Core	5.10	641	15.4	403.5	5.9	6	0.3	1.4	0.9	34	3.44	15	0.7	2.7	69	<0.1	2.7	1.3	72	0.06
N253218	Drill Core	3.48	341	16.8	100.1	9.5	5	0.1	0.4	0.3	28	1.72	6	0.7	2.9	105	<0.1	2.3	0.9	55	0.07
N253219	Drill Core	7.32	343	19.8	285.3	15.7	5	0.4	1.0	1.6	41	4.79	53	0.6	3.5	162	<0.1	1.8	1.4	73	0.06
N253220	Rock	2.67	<2	<0.1	1.1	0.2	<1	<0.1	<0.1	0.2	27	0.04	<1	1.3	<0.1	4792	<0.1	<0.1	<0.1	<1	36.09
N253221	Drill Core	6.75	153	13.3	51.1	14.8	4	0.1	0.7	0.4	42	1.49	8	0.5	3.1	193	0.1	1.6	3.0	57	0.09
N253222	Drill Core	8.30	296	10.7	87.0	8.1	5	0.1	0.4	0.3	32	2.09	10	0.5	3.3	103	<0.1	3.0	1.7	55	0.07
N253223	Drill Core	7.56	261	12.3	159.9	11.6	6	0.2	0.7	1.1	48	3.78	22	0.6	3.5	123	<0.1	2.5	1.4	59	0.06
N253224	Drill Core	8.84	279	7.6	115.8	9.7	6	<0.1	0.6	0.4	34	2.55	8	0.4	3.1	124	<0.1	2.7	0.9	48	0.05
N253225	Drill Core	6.37	365	7.0	212.7	6.7	5	0.2	0.3	0.6	29	3.77	18	0.5	3.0	101	<0.1	3.3	1.0	52	0.06
N253226	Drill Core	9.12	265	6.4	206.3	9.0	6	0.2	1.0	0.5	39	4.07	9	0.5	2.9	113	<0.1	2.0	1.2	64	0.07
N253227	Drill Core	9.47	194	5.8	239.6	4.9	6	0.3	0.8	3.0	31	4.01	8	0.4	2.5	85	<0.1	1.2	0.9	59	0.05
N253228	Drill Core	1.88	176	8.6	163.3	10.9	5	0.1	0.6	0.9	39	3.60	2	0.4	2.7	126	<0.1	0.7	0.9	64	0.05
N253230	Drill Core	6.05	94	26.5	82.3	8.7	5	1.3	0.7	0.3	30	2.51	20	0.6	2.6	111	<0.1	0.6	0.9	66	0.06
N253231	Drill Core	4.97	159	39.6	168.5	15.4	5	0.2	0.6	0.5	38	4.13	34	0.5	4.1	204	0.1	0.6	1.6	76	0.07
N253232	Drill Core	8.74	118	19.7	68.0	20.1	5	0.3	0.4	0.3	30	1.43	13	0.6	3.0	164	0.1	0.5	1.8	68	0.08
N253233	Drill Core	8.71	396	47.3	400.9	6.5	6	0.4	0.6	1.0	26	4.94	14	0.6	3.4	121	0.1	1.0	1.2	80	0.06
N253234	Drill Core	8.69	230	30.5	384.7	6.7	5	0.5	1.4	2.5	23	6.30	11	0.7	3.1	167	<0.1	1.5	1.3	71	0.06
N253235	Drill Core	5.28	126	8.8	269.6	4.4	9	0.1	4.7	9.1	39	6.63	3	0.4	2.5	148	0.1	0.9	0.9	61	0.04
N253236	Drill Core	3.67	106	28.3	624.9	7.2	13	0.2	5.8	15.0	26	6.78	8	0.7	3.8	212	0.1	0.8	0.9	79	0.06
N253237	Drill Core	7.43	126	146.8	490.2	11.0	8	<0.1	2.7	8.6	33	3.50	8	0.5	3.8	266	0.1	0.7	0.4	57	0.05
N253238	Drill Core	6.58	155	102.8	468.7	10.9	8	<0.1	3.0	10.3	27	4.56	6	0.6	4.4	302	0.1	0.6	0.4	65	0.06
N253239	Rock Pulp	0.05	577	841.1	6012.6	37.9	61	27.8	19.1	5.5	434	2.91	21	1.3	1.6	290	0.7	75.5	1.9	32	1.25
N253240	Drill Core	7.02	106	58.8	701.6	7.4	9	<0.1	5.3	11.1	27	3.08	4	0.8	2.7	206	<0.1	0.5	1.1	106	0.04
N253241	Drill Core	5.72	235	54.8	2374.3	5.6	24	0.2	7.7	17.0	31	5.08	5	1.0	2.3	10	0.2	0.3	2.0	144	0.04

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253211	Drill Core	0.039	5.3	7	0.03	57	0.034	4.91	0.056	0.04	0.3	43.0	11	9.9	1.8	0.5	<0.1	<1	4	0.1	0.3
N253212	Drill Core	0.041	5.4	6	0.02	124	0.039	4.89	0.046	0.05	0.4	37.9	11	4.9	1.5	0.5	<0.1	<1	4	0.3	1.1
N253213	Drill Core	0.038	4.5	6	0.02	88	0.051	4.79	0.042	0.05	0.4	40.0	9	5.3	1.5	0.7	<0.1	<1	5	0.1	0.4
N253214	Drill Core	0.035	5.0	7	0.01	53	0.052	4.14	0.070	0.08	0.3	36.9	11	4.4	1.3	0.8	<0.1	<1	3	0.3	0.3
N253215	Drill Core	0.029	3.3	6	0.01	47	0.078	4.74	0.088	0.09	0.4	42.6	8	9.1	1.4	1.0	<0.1	<1	5	<0.1	0.4
N253216	Rock Pulp	0.049	7.4	21	0.89	700	0.197	7.15	2.298	1.82	1.5	9.2	18	3.0	10.4	2.5	0.2	<1	9	8.3	0.3
N253217	Drill Core	0.032	1.9	10	0.02	87	0.058	4.74	0.041	0.04	0.5	38.2	5	4.8	2.0	0.7	<0.1	<1	5	<0.1	0.5
N253218	Drill Core	0.039	2.7	5	0.01	39	0.092	4.41	0.045	0.06	0.4	48.2	6	5.3	1.8	1.2	0.1	<1	4	<0.1	0.2
N253219	Drill Core	0.040	4.3	7	0.01	68	0.071	5.20	0.037	0.04	0.4	39.2	9	14.1	1.5	0.9	<0.1	<1	5	<0.1	1.1
N253220	Rock	0.005	0.7	3	2.05	7	0.001	0.03	0.003	<0.01	<0.1	0.4	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.2	<0.1
N253221	Drill Core	0.050	3.5	6	<0.01	65	0.128	4.48	0.162	0.18	0.6	34.5	7	7.2	1.1	1.7	0.2	<1	3	<0.1	0.8
N253222	Drill Core	0.026	2.9	6	0.01	29	0.105	4.76	0.042	0.05	0.3	35.0	6	16.3	1.0	1.2	0.1	<1	5	<0.1	0.2
N253223	Drill Core	0.032	9.4	11	0.02	41	0.098	4.68	0.032	0.04	0.3	35.8	20	10.9	1.5	1.2	0.1	<1	5	0.2	0.3
N253224	Drill Core	0.027	3.6	7	<0.01	34	0.109	4.40	0.039	0.04	0.2	33.2	8	6.9	1.0	1.5	0.1	<1	4	<0.1	0.1
N253225	Drill Core	0.034	2.4	5	0.01	38	0.094	4.50	0.026	0.03	0.2	36.2	5	4.6	1.1	1.3	0.1	<1	4	<0.1	0.2
N253226	Drill Core	0.043	2.4	8	0.01	44	0.088	4.40	0.107	0.12	0.2	36.1	5	7.7	1.2	1.1	0.1	<1	4	<0.1	0.5
N253227	Drill Core	0.030	1.6	7	<0.01	39	0.072	4.31	0.033	0.03	0.1	31.7	4	3.9	1.3	0.9	<0.1	<1	5	<0.1	0.9
N253228	Drill Core	0.034	2.2	7	<0.01	58	0.084	4.05	0.034	0.03	0.7	32.2	5	2.8	1.4	1.1	0.1	<1	4	0.1	0.1
N253230	Drill Core	0.038	4.1	6	<0.01	47	0.094	4.96	0.046	0.03	6.2	41.9	9	2.5	1.3	1.4	0.1	<1	4	<0.1	0.2
N253231	Drill Core	0.061	9.1	7	<0.01	66	0.080	4.47	0.041	0.04	0.5	43.2	18	3.3	1.2	1.0	0.1	<1	4	<0.1	0.2
N253232	Drill Core	0.045	3.9	6	<0.01	60	0.169	5.20	0.306	0.38	0.8	40.6	9	4.7	0.9	2.4	0.2	<1	4	0.1	1.5
N253233	Drill Core	0.051	4.9	9	0.01	47	0.077	4.84	0.050	0.06	0.3	34.2	10	4.7	1.2	1.1	<0.1	<1	5	0.6	0.6
N253234	Drill Core	0.044	4.1	4	0.01	67	0.070	4.81	0.019	0.02	0.4	44.9	10	6.3	1.9	0.9	<0.1	<1	5	0.1	2.3
N253235	Drill Core	0.026	3.3	9	0.01	37	0.053	4.19	0.022	0.02	0.5	28.7	7	4.6	1.2	0.7	<0.1	<1	4	0.2	6.5
N253236	Drill Core	0.042	4.3	8	0.01	45	0.077	5.32	0.021	0.02	2.5	44.6	8	5.6	2.0	0.9	<0.1	<1	6	0.3	6.8
N253237	Drill Core	0.035	5.1	8	0.01	41	0.059	5.18	0.025	0.01	0.7	33.4	10	3.4	1.2	0.9	<0.1	<1	7	0.2	3.6
N253238	Drill Core	0.042	9.8	7	0.01	37	0.061	5.60	0.027	0.02	0.7	38.1	19	3.4	1.6	0.9	<0.1	<1	8	0.5	4.7
N253239	Rock Pulp	0.026	8.1	25	0.19	540	0.087	6.08	1.835	2.25	2.5	9.0	16	2.8	5.8	2.0	0.1	<1	2	8.6	1.0
N253240	Drill Core	0.042	4.3	11	0.34	74	0.145	6.39	0.031	0.08	0.8	41.2	10	6.1	4.9	1.8	0.1	<1	13	1.5	3.3
N253241	Drill Core	0.054	4.7	11	1.81	120	0.231	7.65	0.024	0.50	1.0	52.4	11	11.3	6.0	2.7	0.2	<1	18	3.3	5.6

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253211	Drill Core	1.2	1.2	<0.05	<0.005	38	0.6	<0.5
N253212	Drill Core	0.7	1.3	0.05	0.030	32	<0.5	<0.5
N253213	Drill Core	0.6	1.2	<0.05	0.010	40	0.6	<0.5
N253214	Drill Core	0.7	1.1	<0.05	0.012	23	<0.5	<0.5
N253215	Drill Core	0.6	1.1	<0.05	<0.005	18	<0.5	<0.5
N253216	Rock Pulp	31.6	0.5	0.06	0.360	<1	1.1	<0.5
N253217	Drill Core	0.9	1.3	<0.05	0.011	23	<0.5	<0.5
N253218	Drill Core	0.7	1.4	<0.05	0.014	10	<0.5	<0.5
N253219	Drill Core	0.5	1.2	<0.05	0.023	29	<0.5	<0.5
N253220	Rock	<0.1	<0.1	<0.05	<0.005	1	3.1	<0.5
N253221	Drill Core	0.5	1.0	<0.05	0.021	8	<0.5	<0.5
N253222	Drill Core	0.4	1.0	<0.05	0.008	13	<0.5	<0.5
N253223	Drill Core	0.5	1.1	<0.05	0.022	21	<0.5	<0.5
N253224	Drill Core	1.0	1.0	<0.05	0.005	13	<0.5	<0.5
N253225	Drill Core	0.5	1.1	<0.05	0.006	24	<0.5	<0.5
N253226	Drill Core	1.1	1.0	<0.05	0.015	30	<0.5	<0.5
N253227	Drill Core	0.4	0.9	<0.05	0.046	36	0.7	<0.5
N253228	Drill Core	0.5	0.9	<0.05	0.013	21	<0.5	<0.5
N253230	Drill Core	0.5	1.3	<0.05	0.007	14	1.1	<0.5
N253231	Drill Core	0.4	1.1	<0.05	0.008	13	1.0	<0.5
N253232	Drill Core	0.8	1.2	<0.05	0.006	8	1.7	<0.5
N253233	Drill Core	0.3	1.0	<0.05	0.013	25	1.1	<0.5
N253234	Drill Core	0.3	1.3	<0.05	0.019	25	1.3	<0.5
N253235	Drill Core	0.4	0.9	<0.05	0.035	6	<0.5	<0.5
N253236	Drill Core	0.5	1.4	<0.05	0.128	3	1.3	<0.5
N253237	Drill Core	0.4	0.9	<0.05	0.636	4	1.6	<0.5
N253238	Drill Core	0.6	1.0	<0.05	0.423	8	2.1	<0.5
N253239	Rock Pulp	50.2	0.4	<0.05	0.705	<1	3.9	<0.5
N253240	Drill Core	1.3	1.1	0.12	0.482	8	1.3	<0.5
N253241	Drill Core	11.5	1.5	0.32	0.620	17	1.0	<0.5

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CERTIFICATE OF ANALYSIS VAN16001432.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253242	Drill Core	7.90	520	53.4	3763.3	4.4	35	0.8	8.3	23.5	46	5.14	8	0.9	2.9	6	0.2	0.3	2.1	118	0.04
N253243	Drill Core	9.06	429	73.0	3170.0	5.0	35	1.0	8.2	25.7	69	5.26	24	0.9	1.9	31	0.3	0.3	2.5	131	0.19
N253244	Rock	1.32	<2	0.2	9.8	0.3	2	<0.1	0.3	0.7	30	0.22	<1	1.4	<0.1	4820	<0.1	<0.1	<0.1	1	38.70
N253245	Drill Core	7.88	583	56.9	4480.1	5.3	128	2.1	8.6	24.4	203	7.46	5	0.9	2.0	31	1.2	0.2	1.0	150	0.25
N253246	Drill Core	7.58	258	60.4	1902.4	6.6	154	1.1	19.3	26.3	310	7.70	3	0.6	0.8	31	0.4	0.2	0.7	251	0.33
N253247	Drill Core	8.75	174	16.1	980.5	5.3	70	0.4	9.3	16.2	180	6.13	4	1.4	2.7	36	0.1	0.1	0.8	135	0.33
N253248	Drill Core	4.91	75	10.3	617.6	7.2	59	0.2	6.3	14.9	212	6.80	6	1.8	3.3	30	0.2	0.2	1.4	93	0.22
N253250	Drill Core	9.06	50	14.6	419.6	5.7	43	0.2	4.6	11.4	145	6.49	7	2.1	4.0	38	0.2	0.2	0.9	71	0.21
N253251	Drill Core	9.38	65	5.9	821.4	5.2	65	0.1	3.1	8.9	189	4.69	3	2.0	3.9	23	0.2	0.2	0.7	68	0.10
N253252	Drill Core	6.97	34	4.3	617.3	4.5	42	<0.1	2.6	7.7	122	3.05	6	1.8	3.0	30	<0.1	0.2	0.5	68	0.10
N253253	Drill Core	6.90	32	4.5	727.4	3.7	26	<0.1	2.9	11.3	76	2.98	8	1.7	3.0	22	<0.1	0.2	1.1	80	0.06
N253254	Drill Core	8.34	18	4.1	358.8	3.5	37	<0.1	2.8	8.5	129	2.75	5	1.8	3.0	46	<0.1	0.2	0.8	76	0.19
N253255	Drill Core	8.85	49	3.9	539.1	5.1	23	0.1	3.2	11.0	76	3.76	13	2.0	3.9	75	0.1	0.3	1.4	77	0.62
N253256	Drill Core	10.15	36	9.8	235.9	5.1	43	0.1	3.9	11.0	215	3.93	13	1.8	3.6	82	0.3	0.2	1.1	81	0.74
N253257	Drill Core	9.83	34	6.4	212.2	3.8	49	0.1	3.5	7.1	244	3.86	10	1.8	3.5	40	0.2	0.1	1.0	79	0.37
N253130	Drill Core	4.70	308	28.6	2470.1	2.7	28	0.2	9.8	21.2	97	10.22	19	0.1	0.8	12	0.2	0.3	1.2	96	1.90
N253162	Drill Core	4.12	549	69.6	2653.9	11.6	145	0.6	9.3	17.1	345	11.07	4	0.4	1.6	35	0.4	0.6	0.6	119	0.22
N253182	Drill Core	2.26	363	54.5	2576.4	6.4	131	0.3	14.7	19.7	219	9.19	65	0.3	1.9	72	0.2	2.8	0.5	117	1.08
N253208	Drill Core	5.63	150	8.0	1358.4	5.4	62	<0.1	13.7	14.5	171	5.81	7	0.4	1.1	49	0.2	0.2	0.4	164	2.12
N253229	Drill Core	2.03	196	8.2	161.3	12.7	5	0.1	0.3	0.4	32	3.48	4	0.5	3.3	163	0.1	0.7	1.1	69	0.06

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

CERTIFICATE OF ANALYSIS VAN16001432.1

		Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253242	Drill Core		0.059	5.6	8	2.07	130	0.162	6.79	0.021	0.49	0.5	40.4	13	5.0	4.9	2.3	0.2	<1	16	4.1	5.3
N253243	Drill Core		0.060	6.5	7	1.44	141	0.188	6.53	0.078	0.86	0.5	35.2	15	3.7	4.1	2.1	0.2	<1	15	2.6	4.9
N253244	Rock		0.015	0.7	1	1.88	9	0.031	0.33	0.077	<0.01	<0.1	5.2	2	<0.1	1.9	0.4	<0.1	<1	<1	0.8	0.2
N253245	Drill Core		0.070	8.2	9	1.84	88	0.193	6.81	0.071	1.13	0.6	33.7	19	4.5	7.9	1.7	0.1	1	15	2.2	4.8
N253246	Drill Core		0.088	4.5	21	2.77	282	0.392	8.54	0.077	1.21	0.3	26.6	12	3.7	11.3	2.5	0.1	1	24	4.3	2.9
N253247	Drill Core		0.055	9.1	10	1.86	81	0.199	7.47	0.095	1.61	0.3	54.3	21	5.0	10.1	1.9	0.2	<1	15	2.1	3.7
N253248	Drill Core		0.044	9.9	7	2.06	34	0.151	7.07	0.079	1.61	0.2	72.9	23	3.7	7.8	2.2	0.2	2	11	2.3	4.8
N253250	Drill Core		0.042	9.9	5	1.53	27	0.134	7.13	0.106	1.77	0.2	81.5	23	2.8	7.8	2.0	0.2	<1	10	1.4	5.4
N253251	Drill Core		0.041	8.7	5	1.64	53	0.110	6.92	0.074	2.15	0.3	78.9	19	3.0	7.4	1.9	0.2	1	9	1.7	3.4
N253252	Drill Core		0.042	5.3	6	1.23	120	0.150	7.03	0.113	2.14	0.5	76.1	12	3.9	6.9	2.5	0.2	1	9	1.9	2.2
N253253	Drill Core		0.048	5.8	5	1.66	50	0.158	7.40	0.071	1.85	0.6	74.3	14	3.5	6.9	2.7	0.2	<1	10	5.0	2.8
N253254	Drill Core		0.049	7.6	5	2.25	105	0.172	7.30	0.101	1.36	0.4	78.2	17	2.7	7.4	3.0	0.3	1	9	4.5	2.2
N253255	Drill Core		0.048	10.3	5	1.18	45	0.166	7.35	0.160	1.63	0.4	74.3	22	3.2	12.4	2.9	0.3	<1	12	2.8	3.9
N253256	Drill Core		0.047	8.1	5	1.88	50	0.183	7.27	0.170	1.50	0.4	72.7	19	2.4	11.2	3.2	0.3	<1	11	2.6	3.3
N253257	Drill Core		0.046	6.7	6	2.31	61	0.174	7.35	0.119	1.65	0.4	74.7	16	2.7	9.8	3.1	0.3	1	10	4.1	2.7
N253130	Drill Core		0.053	2.7	14	1.56	102	0.073	4.44	0.069	1.07	0.2	5.7	6	3.0	4.0	0.6	<0.1	<1	12	6.5	6.7
N253162	Drill Core		0.061	5.1	11	2.14	42	0.140	5.72	1.091	1.42	0.2	17.9	14	3.0	11.1	1.4	0.1	<1	11	7.8	7.7
N253182	Drill Core		0.054	6.7	6	1.78	62	0.101	5.33	0.233	1.03	0.4	15.0	18	2.8	8.4	1.3	<0.1	<1	11	9.2	6.7
N253208	Drill Core		0.075	6.0	24	2.76	215	0.179	7.31	0.324	1.70	0.1	21.8	16	3.8	8.1	1.6	<0.1	<1	19	8.3	2.6
N253229	Drill Core		0.043	3.0	5	0.01	70	0.106	4.19	0.040	0.04	0.8	34.9	7	3.3	1.5	1.4	0.1	<1	4	0.2	0.2

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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15th floor - 1040 West Georgia Street
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Project: Red Dog
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CERTIFICATE OF ANALYSIS VAN16001432.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
N253242	Drill Core	13.1	1.1	0.84	0.558	20	2.7	<0.5
N253243	Drill Core	15.6	1.0	1.37	0.765	17	2.0	0.6
N253244	Rock	0.5	<0.1	<0.05	<0.005	<1	2.4	<0.5
N253245	Drill Core	19.8	1.0	2.42	0.568	12	0.9	0.8
N253246	Drill Core	16.0	0.7	0.85	0.521	7	<0.5	1.0
N253247	Drill Core	29.4	1.5	0.59	0.135	8	<0.5	1.1
N253248	Drill Core	24.3	2.1	0.60	0.098	9	0.7	1.0
N253250	Drill Core	38.9	2.4	0.57	0.114	11	0.6	1.1
N253251	Drill Core	45.0	2.3	0.39	0.051	6	0.5	1.4
N253252	Drill Core	40.0	2.4	0.39	0.009	6	0.6	1.4
N253253	Drill Core	27.0	2.1	0.25	0.014	8	1.6	1.2
N253254	Drill Core	15.1	2.2	0.18	0.015	5	0.6	0.9
N253255	Drill Core	34.0	2.2	0.24	0.010	10	1.1	1.0
N253256	Drill Core	28.4	2.1	0.35	0.038	10	1.0	1.0
N253257	Drill Core	22.5	2.2	0.41	0.023	7	0.8	1.2
N253130	Drill Core	36.0	0.1	0.57	0.177	16	1.3	0.6
N253162	Drill Core	37.0	0.5	0.43	0.662	10	2.8	0.7
N253182	Drill Core	28.8	0.5	0.44	0.407	9	1.5	0.9
N253208	Drill Core	34.1	0.8	0.24	0.093	6	1.5	0.9
N253229	Drill Core	0.5	1.0	<0.05	0.014	19	<0.5	<0.5

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15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog

Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

	Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
N253121	Drill Core	9.71	382	22.5	3303.5	3.7	36	0.5	10.0	30.1	110	9.66	22	0.1	1.5	5	0.1	0.4	0.8	87	0.24
REP N253121	QC			20.5	3316.1	3.8	36	0.5	10.6	31.9	116	9.70	23	0.2	1.5	5	0.1	0.4	0.7	87	0.24
REP N253133	QC		304																		
N253155	Drill Core	7.60	367	55.5	2722.6	16.4	239	0.5	11.1	21.0	402	8.47	8	0.7	2.0	118	0.8	1.0	0.4	139	0.85
REP N253155	QC			49.1	2656.6	15.4	236	0.5	10.9	20.8	385	8.28	7	0.7	1.8	109	0.8	1.0	0.4	134	0.82
N253166	Drill Core	3.82	703	66.0	3889.6	6.3	184	0.5	11.9	18.5	343	9.81	<1	0.3	1.4	84	0.7	0.3	0.2	128	0.82
REP N253166	QC		727																		
N253192	Drill Core	4.40	195	17.5	1518.3	7.3	100	0.4	20.5	18.7	215	8.89	4	0.4	0.7	119	0.2	0.4	1.3	209	0.78
REP N253192	QC			19.4	1444.8	7.0	95	0.4	20.2	17.0	197	8.61	3	0.3	0.8	118	0.1	0.5	1.3	200	0.76
N253201	Drill Core	10.03	314	10.8	951.1	5.8	121	0.3	12.2	16.1	413	13.48	17	0.4	1.1	49	0.2	0.9	1.0	246	1.94
REP N253201	QC		300																		
N253228	Drill Core	1.88	176	8.6	163.3	10.9	5	0.1	0.6	0.9	39	3.60	2	0.4	2.7	126	<0.1	0.7	0.9	64	0.05
REP N253228	QC			8.6	164.6	10.8	5	0.1	0.5	1.0	39	3.67	3	0.4	2.8	121	<0.1	0.7	0.9	65	0.06
N253237	Drill Core	7.43	126	146.8	490.2	11.0	8	<0.1	2.7	8.6	33	3.50	8	0.5	3.8	266	0.1	0.7	0.4	57	0.05
REP N253237	QC		120																		
N253229	Drill Core	2.03	196	8.2	161.3	12.7	5	0.1	0.3	0.4	32	3.48	4	0.5	3.3	163	0.1	0.7	1.1	69	0.06
REP N253229	QC		210	8.0	163.5	12.7	5	0.1	0.4	0.4	32	3.51	4	0.5	3.2	161	0.1	0.6	1.3	71	0.06
Core Reject Duplicates																					
N253133	Drill Core	10.13	313	20.4	2426.0	3.1	34	0.3	11.3	19.6	106	9.78	10	0.1	0.7	11	0.1	0.5	1.5	98	1.88
DUP N253133	QC		305	19.9	2480.1	2.9	32	0.3	10.9	18.7	108	9.79	10	0.1	0.7	11	<0.1	0.4	1.6	98	1.83
N253168	Drill Core	8.75	478	92.2	3546.8	13.9	93	0.4	11.6	20.4	123	8.38	<1	0.3	1.4	12	0.4	0.6	0.7	121	1.11
DUP N253168	QC		479	84.2	3517.5	14.1	91	0.3	11.7	20.8	123	8.30	<1	0.3	1.4	11	0.5	0.5	0.7	122	1.10
N253203	Drill Core	10.60	133	15.9	1843.0	7.1	50	0.2	14.1	10.2	203	6.44	5	0.5	1.2	73	0.2	0.4	4.1	216	1.94
DUP N253203	QC		131	15.1	1883.0	7.1	51	0.2	14.5	10.8	209	6.86	3	0.5	1.0	69	0.1	0.3	3.9	224	1.90
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	36.1	24.3	43	<0.1	49.6	8.2	510	6.73	10	2.9	14.8	46	0.1	0.7	0.4	162	0.29
STD OREAS25A-4A	Standard			2.9	38.8	26.4	47	<0.1	51.3	8.5	514	7.14	11	2.9	16.6	49	<0.1	0.7	0.4	171	0.32
STD OREAS25A-4A	Standard			2.5	37.3	29.1	43	<0.1	48.3	7.9	510	6.72	10	2.7	15.0	46	<0.1	1.3	0.4	164	0.30

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Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N253121	Drill Core	0.047	1.6	9	2.30	86	0.111	5.05	0.049	1.05	1.0	5.6	4	4.1	3.5	1.3	<0.1	<1	10	8.1	5.1
REP N253121	QC	0.050	1.6	8	2.34	119	0.119	5.18	0.048	1.11	0.9	6.9	4	4.5	3.6	0.8	<0.1	<1	9	8.6	5.4
REP N253133	QC																				
N253155	Drill Core	0.086	9.0	14	1.72	47	0.172	7.51	1.005	2.01	0.5	33.8	21	4.1	14.8	2.1	0.1	<1	13	10.2	4.2
REP N253155	QC	0.088	8.3	13	1.70	46	0.170	7.31	0.965	1.99	0.5	33.2	19	4.0	14.2	2.0	0.1	<1	13	10.0	4.1
N253166	Drill Core	0.071	7.8	14	2.25	155	0.132	6.89	1.038	1.48	0.4	19.0	18	2.6	15.4	1.2	<0.1	1	13	10.5	2.0
REP N253166	QC																				
N253192	Drill Core	0.101	3.8	30	2.49	34	0.201	7.71	0.758	1.38	1.0	20.9	12	4.2	8.5	1.6	<0.1	1	19	8.7	5.3
REP N253192	QC	0.096	3.7	28	2.40	33	0.184	7.57	0.747	1.38	0.9	19.8	12	4.2	8.0	1.5	<0.1	<1	19	7.7	5.2
N253201	Drill Core	0.096	7.3	15	2.52	64	0.180	7.01	0.322	1.56	0.1	19.9	19	4.6	9.8	1.3	<0.1	<1	20	8.9	7.4
REP N253201	QC																				
N253228	Drill Core	0.034	2.2	7	<0.01	58	0.084	4.05	0.034	0.03	0.7	32.2	5	2.8	1.4	1.1	0.1	<1	4	0.1	0.1
REP N253228	QC	0.037	2.3	6	<0.01	61	0.086	4.20	0.032	0.03	0.7	33.1	5	3.0	1.5	1.1	0.1	<1	4	0.1	0.2
N253237	Drill Core	0.035	5.1	8	0.01	41	0.059	5.18	0.025	0.01	0.7	33.4	10	3.4	1.2	0.9	<0.1	<1	7	0.2	3.6
REP N253237	QC																				
N253229	Drill Core	0.043	3.0	5	0.01	70	0.106	4.19	0.040	0.04	0.8	34.9	7	3.3	1.5	1.4	0.1	<1	4	0.2	0.2
REP N253229	QC	0.040	2.8	6	0.01	67	0.120	4.21	0.037	0.04	0.8	39.1	7	3.4	1.6	1.5	0.1	<1	5	0.2	0.2
Core Reject Duplicates																					
N253133	Drill Core	0.053	2.0	16	2.23	91	0.084	4.95	0.051	1.14	0.2	4.4	5	4.1	4.7	0.7	<0.1	<1	14	7.8	8.9
DUP N253133	QC	0.052	2.4	18	2.24	81	0.090	4.91	0.050	1.12	0.2	5.0	5	4.8	4.7	0.5	<0.1	<1	14	7.2	8.7
N253168	Drill Core	0.065	5.7	10	1.76	52	0.097	6.00	0.240	2.10	0.3	16.7	14	2.7	10.7	1.1	<0.1	<1	13	8.1	7.2
DUP N253168	QC	0.063	5.7	10	1.75	44	0.092	5.66	0.234	2.13	0.3	15.7	14	2.6	9.5	1.0	<0.1	<1	12	7.8	7.1
N253203	Drill Core	0.110	6.5	31	2.63	117	0.204	8.34	0.495	2.46	0.1	22.4	15	7.7	9.3	1.5	<0.1	<1	32	7.9	4.1
DUP N253203	QC	0.112	6.2	31	2.64	104	0.197	8.26	0.477	2.50	0.2	22.4	15	8.1	9.2	1.5	<0.1	1	32	7.6	4.2
Reference Materials																					
STD OREAS25A-4A	Standard	0.049	22.5	124	0.32	150	1.007	9.44	0.136	0.49	2.0	151.9	49	4.1	11.0	20.4	1.4	<1	13	38.4	<0.1
STD OREAS25A-4A	Standard	0.053	24.2	132	0.36	165	0.968	9.54	0.157	0.52	1.7	158.4	53	4.4	10.4	20.4	1.5	<1	14	40.4	<0.1
STD OREAS25A-4A	Standard	0.053	21.4	129	0.32	158	0.956	9.29	0.139	0.49	1.9	153.6	48	5.2	9.8	20.6	1.4	1	13	37.3	<0.1

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253121	Drill Core	33.7	0.2	0.79	0.092	13	0.6	0.6
REP N253121	QC	34.9	0.2	0.76	0.119	14	0.6	0.6
REP N253133	QC							
N253155	Drill Core	60.3	1.0	0.48	0.439	10	2.2	0.9
REP N253155	QC	56.8	0.9	0.63	0.427	8	1.7	0.9
N253166	Drill Core	47.9	0.5	0.67	0.590	8	1.1	0.6
REP N253166	QC							
N253192	Drill Core	22.8	0.6	0.44	0.161	14	2.5	0.9
REP N253192	QC	21.1	0.6	0.38	0.189	13	2.5	0.9
N253201	Drill Core	31.6	0.6	0.42	0.138	10	3.2	1.2
REP N253201	QC							
N253228	Drill Core	0.5	0.9	<0.05	0.013	21	<0.5	<0.5
REP N253228	QC	0.4	1.0	<0.05	0.007	21	<0.5	<0.5
N253237	Drill Core	0.4	0.9	<0.05	0.636	4	1.6	<0.5
REP N253237	QC							
N253229	Drill Core	0.5	1.0	<0.05	0.014	19	<0.5	<0.5
REP N253229	QC	0.5	1.0	<0.05	0.011	16	<0.5	<0.5
Core Reject Duplicates								
N253133	Drill Core	35.4	0.2	0.62	0.096	15	1.0	0.8
DUP N253133	QC	36.0	0.2	0.65	0.094	17	1.1	0.7
N253168	Drill Core	65.2	0.5	0.70	0.766	22	3.9	0.9
DUP N253168	QC	61.2	0.5	0.62	0.666	23	3.8	0.9
N253203	Drill Core	39.5	0.6	0.73	0.156	16	1.9	1.3
DUP N253203	QC	38.1	0.7	0.73	0.112	15	1.9	1.3
Reference Materials								
STD OREAS25A-4A	Standard	59.0	4.1	0.11	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	66.3	4.4	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	64.0	4.0	0.07	<0.005	2	<0.5	<0.5

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.3	35.1	25.8	44	<0.1	47.7	8.4	475	6.52	10	2.8	14.7	43	<0.1	0.6	0.3	159	0.28
STD OREAS25A-4A	Standard			2.6	35.8	26.9	43	<0.1	46.2	8.0	491	6.65	10	3.0	16.5	48	0.2	0.6	0.4	168	0.30
STD OREAS45E	Standard			2.4	824.2	18.9	47	0.3	487.9	66.1	594	25.71	16	2.5	12.6	17	<0.1	1.1	0.3	336	0.07
STD OREAS45E	Standard			2.5	807.0	19.1	47	0.4	484.6	63.5	573	26.07	18	2.6	13.7	16	<0.1	1.3	0.3	326	0.07
STD OREAS45E	Standard			2.4	812.4	18.9	48	0.3	484.0	64.2	579	26.18	17	2.4	13.0	17	<0.1	1.0	0.3	334	0.07
STD OREAS45E	Standard			2.7	826.3	19.9	49	0.3	496.4	64.7	614	26.57	17	2.6	13.9	16	<0.1	1.2	0.3	337	0.07
STD OREAS45E	Standard			2.2	829.5	18.4	49	0.3	490.7	65.9	601	26.09	17	2.7	14.3	18	0.1	1.2	0.1	354	0.07
STD OXD108	Standard		410																		
STD OXD108	Standard		419																		
STD OXD108	Standard		430																		
STD OXD108	Standard		422																		
STD OXD108	Standard		418																		
STD OXI121	Standard		1857																		
STD OXI121	Standard		1799																		
STD OXI121	Standard		1796																		
STD OXI121	Standard		1735																		
STD OXI121 Expected			1834																		
STD OXD108 Expected			414																		
STD OREAS25A-4A Expected				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.047	19.1	120	0.31	151	0.923	8.66	0.134	0.49	1.8	149.9	44	4.0	9.7	20.0	1.5	1	12	37.3	<0.1
STD OREAS25A-4A	Standard	0.048	22.0	123	0.32	154	0.890	9.00	0.116	0.49	2.2	154.5	50	4.1	10.1	19.7	1.5	1	13	39.6	<0.1
STD OREAS45E	Standard	0.032	12.3	1050	0.15	265	0.567	7.13	0.050	0.35	1.1	106.2	25	1.4	8.7	6.9	0.6	<1	93	7.5	<0.1
STD OREAS45E	Standard	0.037	11.4	1173	0.16	268	0.540	7.27	0.057	0.37	1.0	101.4	25	1.3	7.9	6.4	0.5	<1	95	7.0	<0.1
STD OREAS45E	Standard	0.034	11.6	1040	0.15	270	0.558	7.21	0.053	0.35	1.1	106.3	26	1.3	7.8	6.7	0.6	<1	102	6.9	<0.1
STD OREAS45E	Standard	0.034	11.6	1018	0.15	282	0.558	7.31	0.048	0.37	1.0	104.8	26	1.4	8.7	6.8	0.6	<1	96	7.0	<0.1
STD OREAS45E	Standard	0.033	11.9	1093	0.16	262	0.563	7.23	0.053	0.36	1.1	104.9	25	1.2	8.4	6.7	0.6	1	99	7.8	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121 Expected																					
STD OXD108 Expected																					
STD OREAS25A-4A Expected		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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15th floor - 1040 West Georgia Street
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Project: Red Dog
Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	57.0	4.3	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	58.1	4.5	0.09	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.2	3.1	0.15	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.0	3.2	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.8	3.4	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	24.0	3.2	0.15	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	22.5	3.2	<0.05	<0.005	4	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121 Expected								
STD OXD108 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							

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Report Date: September 07, 2016

QUALITY CONTROL REPORT VAN16001432.1

		WGHT Wgt kg 0.01	FA350 Au ppb 2	MA200 Mo ppm 0.1	MA200 Cu ppm 0.1	MA200 Pb ppm 0.1	MA200 Zn ppm 1	MA200 Ag ppm 0.1	MA200 Ni ppm 0.1	MA200 Co ppm 0.2	MA200 Mn ppm 1	MA200 Fe % 0.01	MA200 As ppm 1	MA200 U ppm 0.1	MA200 Th ppm 0.1	MA200 Sr ppm 1	MA200 Cd ppm 0.1	MA200 Sb ppm 0.1	MA200 Bi ppm 0.1	MA200 V ppm 1	MA200 Ca % 0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	0.7	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.5	6.0	2.6	39	<0.1	2.0	4.8	728	2.30	3	1.3	2.9	212	<0.1	0.4	<0.1	37	1.62
ROCK-VAN	Prep Blank		<2	1.1	5.1	2.5	36	<0.1	1.9	4.5	678	2.19	3	1.2	2.6	199	<0.1	0.4	<0.1	37	1.62

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QUALITY CONTROL REPORT VAN16001432.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.046	12.0	4	0.53	857	0.211	7.04	3.632	1.71	0.4	58.7	24	0.8	16.9	6.0	0.4	<1	7	2.4	<0.1
ROCK-VAN	Prep Blank	0.045	10.8	4	0.52	808	0.211	7.04	3.577	1.70	0.4	56.7	22	0.9	16.2	5.6	0.4	<1	7	2.8	<0.1

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QUALITY CONTROL REPORT VAN16001432.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	38.2	1.9	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	36.6	1.9	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 23, 2016
Report Date: September 09, 2016
Page: 1 of 5

CERTIFICATE OF ANALYSIS VAN16001469.1

CLIENT JOB INFORMATION

Project: Red Dog
Shipment ID:
P.O. Number
Number of Samples: 120

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	114	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA350-Au	120	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
MA200	120	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253258	Drill Core	9.56	37	5.9	250.6	7.7	29	0.1	3.5	8.7	122	3.81	14	1.7	3.7	17	0.3	0.4	1.0	81	0.12
N253259	Drill Core	9.32	27	11.8	136.0	3.6	22	<0.1	4.0	8.0	36	3.13	12	2.2	4.3	15	0.3	0.1	0.7	65	0.04
N253260	Drill Core	8.60	87	3.7	140.7	5.3	15	<0.1	2.8	8.0	27	4.33	10	2.3	3.9	14	<0.1	0.1	0.8	67	0.04
N253261	Rock Pulp	0.06	166	418.3	2071.5	27.1	61	13.5	15.9	10.5	792	3.81	12	1.1	2.3	459	0.4	35.9	2.0	88	2.95
N253262	Drill Core	7.71	25	4.4	286.4	8.0	23	0.5	2.4	5.0	39	3.06	8	2.3	4.6	22	0.2	0.4	1.0	52	0.07
N253263	Drill Core	5.40	26	2.4	448.0	7.1	16	<0.1	3.4	8.4	42	3.99	17	2.4	4.1	13	<0.1	0.3	1.1	63	0.03
N253264	Drill Core	5.31	35	8.6	451.6	3.5	17	0.2	6.0	13.8	34	4.30	4	2.7	4.6	12	<0.1	0.3	1.8	91	0.04
N253265	Drill Core	7.17	50	39.2	1811.2	6.8	26	0.2	9.6	18.7	60	4.94	5	1.8	3.4	8	0.1	0.3	2.2	120	0.04
N253266	Drill Core	5.70	51	22.1	977.2	4.5	17	0.1	9.9	21.8	41	7.02	18	1.8	2.8	10	<0.1	0.2	1.2	116	0.04
N253267	Drill Core	5.05	29	33.4	1141.6	5.3	15	0.1	14.3	25.7	39	6.73	12	1.5	2.3	12	<0.1	0.3	0.9	142	0.05
N253268	Rock	1.87	<2	0.2	3.6	0.5	2	<0.1	0.8	0.6	36	0.04	<1	1.5	<0.1	5073	<0.1	<0.1	<0.1	1	35.65
N253269	Drill Core	5.63	55	54.9	1164.2	6.0	22	0.1	15.9	29.0	51	6.44	24	1.4	2.7	30	0.3	0.3	1.4	167	0.15
N253270	Drill Core	7.21	29	27.7	456.1	4.9	17	<0.1	17.2	24.4	39	7.54	26	1.4	2.9	29	<0.1	0.2	1.2	146	0.19
N253271	Drill Core	3.26	45	79.6	1442.8	6.5	16	<0.1	45.8	36.2	56	7.00	4	0.7	1.4	53	0.2	0.2	1.1	199	0.29
N253273	Drill Core	6.12	24	37.1	343.7	4.2	14	<0.1	17.9	27.7	21	6.76	13	0.9	2.4	59	<0.1	0.2	1.3	139	0.31
N253274	Drill Core	6.30	49	46.3	483.7	8.9	18	<0.1	11.8	20.6	39	6.52	6	0.9	1.5	58	0.1	0.3	4.3	217	0.37
N253275	Drill Core	5.93	70	8.5	1079.4	5.2	31	<0.1	23.4	30.7	110	7.01	5	0.7	1.5	53	0.1	0.1	1.9	186	0.32
N253276	Drill Core	6.20	28	10.8	598.0	3.7	26	<0.1	21.4	27.5	106	6.39	3	0.5	1.5	67	0.2	<0.1	0.6	211	0.32
N253277	Drill Core	6.81	55	13.9	522.7	6.3	34	<0.1	26.1	31.8	89	8.20	33	0.5	1.2	57	<0.1	0.2	1.7	223	0.33
N253278	Drill Core	8.32	46	9.0	531.0	7.9	58	<0.1	29.2	37.7	212	7.72	4	0.6	1.2	79	<0.1	<0.1	0.7	248	0.38
N253279	Drill Core	6.31	34	13.4	718.3	6.6	77	<0.1	18.0	29.2	122	7.48	9	0.7	1.7	66	<0.1	0.2	0.9	183	0.28
N253280	Drill Core	6.48	55	32.5	837.1	9.9	115	0.2	13.0	22.6	267	6.43	8	0.8	1.7	129	0.3	<0.1	0.6	187	0.62
N253281	Drill Core	7.79	77	28.7	656.8	8.7	134	0.1	18.5	28.3	223	6.51	5	0.8	1.8	248	0.5	<0.1	0.4	180	0.94
N253282	Drill Core	8.50	71	37.0	623.6	9.7	113	0.2	16.9	25.1	266	6.44	1	0.9	1.8	274	0.3	0.1	0.3	162	0.81
N253283	Drill Core	7.83	73	38.7	974.2	9.0	85	0.2	17.1	27.0	224	6.79	7	0.8	1.6	139	0.5	0.2	1.1	179	0.34
N253284	Rock Pulp	0.06	608	857.9	6198.8	35.0	62	29.4	19.9	5.9	449	2.97	18	1.2	1.7	302	0.4	81.9	1.8	34	1.33
N253285	Drill Core	8.45	97	28.8	942.2	9.4	162	<0.1	21.0	30.5	284	7.22	2	0.9	2.0	266	0.7	<0.1	0.3	192	0.71
N253286	Drill Core	8.33	83	51.2	1532.8	7.0	46	0.2	18.2	31.7	107	7.67	7	0.8	1.7	45	0.2	0.4	1.3	163	0.17
N253287	Drill Core	4.69	75	77.9	1336.9	7.5	80	0.2	20.1	29.9	195	7.56	3	0.9	1.4	52	0.2	0.3	0.8	206	0.29
N253288	Rock	1.53	<2	0.1	5.5	1.0	2	<0.1	<0.1	0.2	30	0.04	<1	1.5	<0.1	4630	<0.1	<0.1	<0.1	<1	35.86

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

		Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253258	Drill Core		0.049	7.6	6	1.96	40	0.173	7.94	0.088	1.97	0.7	71.4	18	3.2	9.7	2.8	0.3	<1	10	5.1	3.4
N253259	Drill Core		0.039	8.5	5	1.13	40	0.152	7.73	0.067	1.94	0.7	89.9	18	3.0	8.2	2.8	0.3	<1	9	5.4	3.3
N253260	Drill Core		0.035	6.8	5	1.11	18	0.117	7.90	0.060	2.11	0.4	92.4	15	3.3	8.9	2.0	0.2	<1	9	4.9	4.6
N253261	Rock Pulp		0.058	10.6	22	0.92	791	0.208	7.70	2.299	1.99	1.7	11.7	23	3.0	12.6	2.7	0.2	<1	10	8.9	0.3
N253262	Drill Core		0.035	7.0	5	1.39	38	0.120	7.76	0.092	1.94	0.4	88.6	16	5.1	8.0	2.1	0.2	<1	10	4.9	3.3
N253263	Drill Core		0.031	5.3	5	1.30	17	0.123	7.41	0.063	2.09	0.5	87.6	12	5.9	8.8	2.3	0.2	<1	13	3.2	4.3
N253264	Drill Core		0.045	7.9	6	1.42	33	0.147	7.81	0.064	1.86	0.6	90.1	18	7.2	12.5	2.9	0.3	<1	16	4.0	4.7
N253265	Drill Core		0.057	10.9	9	2.66	205	0.150	8.62	0.032	1.08	0.6	60.4	21	2.8	8.5	1.7	0.2	<1	21	10.4	5.3
N253266	Drill Core		0.043	8.6	14	1.52	21	0.123	8.12	0.058	2.09	0.3	61.2	20	5.5	7.5	1.4	0.1	<1	18	4.9	7.5
N253267	Drill Core		0.046	7.3	19	1.63	24	0.126	8.20	0.058	1.93	0.4	49.9	17	6.8	7.3	1.2	<0.1	<1	19	5.0	7.2
N253268	Rock		0.004	0.3	2	1.96	8	0.001	0.06	0.004	<0.01	<0.1	0.5	<1	<0.1	0.3	0.1	<0.1	<1	<1	0.2	<0.1
N253269	Drill Core		0.058	10.6	12	1.81	38	0.173	8.76	0.104	1.69	0.4	53.5	24	6.0	11.0	1.8	0.1	<1	22	4.7	6.7
N253270	Drill Core		0.045	8.8	18	1.86	23	0.128	8.09	0.080	1.36	0.4	55.2	21	8.6	8.1	1.3	0.1	<1	20	5.0	8.2
N253271	Drill Core		0.062	10.3	54	2.41	78	0.134	8.92	0.113	1.38	0.5	35.8	23	5.2	5.5	0.8	<0.1	1	21	5.3	6.8
N253273	Drill Core		0.075	11.5	18	1.48	86	0.135	8.62	0.151	0.92	0.9	43.3	24	6.4	5.8	1.3	<0.1	<1	13	6.5	7.4
N253274	Drill Core		0.107	4.6	24	1.32	96	0.253	9.02	0.197	0.86	0.9	38.3	10	14.1	6.2	2.2	0.1	1	25	5.2	6.6
N253275	Drill Core		0.124	10.9	21	2.83	59	0.215	9.60	0.142	1.71	0.3	30.1	24	5.9	6.2	1.7	<0.1	1	22	4.1	4.7
N253276	Drill Core		0.141	9.4	18	2.94	144	0.213	10.65	0.170	1.88	0.3	25.9	21	4.1	5.0	1.0	<0.1	1	24	4.8	3.7
N253277	Drill Core		0.099	9.3	17	2.62	39	0.283	9.59	0.157	1.58	0.3	22.9	20	5.3	7.4	1.6	<0.1	1	23	5.5	6.8
N253278	Drill Core		0.103	9.8	27	2.41	67	0.332	10.05	0.188	1.58	0.2	23.2	23	6.1	11.6	1.8	0.1	<1	26	6.1	5.1
N253279	Drill Core		0.082	7.9	13	2.26	38	0.246	9.01	0.174	1.75	0.3	29.7	17	5.1	8.5	1.7	0.1	<1	19	8.2	6.9
N253280	Drill Core		0.117	12.7	14	2.69	143	0.361	9.34	0.404	1.47	0.3	27.3	28	4.3	18.4	3.3	0.2	1	16	5.0	4.2
N253281	Drill Core		0.122	14.7	16	2.65	298	0.337	9.73	0.570	1.25	0.3	25.9	31	3.6	21.2	2.8	0.2	1	17	5.3	2.9
N253282	Drill Core		0.111	18.5	14	2.55	208	0.320	9.56	0.550	1.53	0.3	28.7	39	4.0	34.6	2.5	0.1	<1	16	3.8	4.0
N253283	Drill Core		0.117	11.5	14	2.93	145	0.310	9.42	0.258	1.53	0.3	26.6	25	4.3	16.8	2.6	0.1	<1	17	5.8	4.4
N253284	Rock Pulp		0.030	9.5	27	0.17	236	0.086	6.27	1.917	2.29	2.6	9.5	18	3.3	6.5	2.2	0.1	<1	2	8.9	1.0
N253285	Drill Core		0.112	17.8	18	3.17	277	0.393	9.32	0.572	1.16	0.3	34.0	38	4.8	37.4	3.5	0.2	<1	20	5.1	2.4
N253286	Drill Core		0.067	7.1	10	2.24	33	0.261	8.53	0.216	1.88	0.5	28.7	17	5.0	9.6	2.4	0.1	<1	16	7.4	7.7
N253287	Drill Core		0.099	11.3	17	3.39	54	0.374	9.65	0.195	1.83	1.4	27.6	24	6.4	12.2	3.1	0.2	<1	21	8.3	6.2
N253288	Rock		0.004	0.1	2	2.08	7	0.002	0.06	0.004	<0.01	<0.1	0.5	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.3	<0.1

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS VAN16001469.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253258	Drill Core	35.4	2.2	0.14	0.028	10	0.9	1.1
N253259	Drill Core	43.2	2.7	0.13	0.008	11	0.5	1.1
N253260	Drill Core	45.8	2.6	0.10	<0.005	11	0.8	1.2
N253261	Rock Pulp	41.3	0.5	<0.05	0.423	<1	1.1	<0.5
N253262	Drill Core	42.3	2.6	0.20	0.010	8	1.1	1.1
N253263	Drill Core	47.6	2.4	0.21	<0.005	13	1.6	1.1
N253264	Drill Core	42.2	2.9	0.26	0.061	18	1.9	1.1
N253265	Drill Core	23.4	1.9	0.49	0.269	23	4.1	0.7
N253266	Drill Core	47.8	1.8	0.43	0.108	25	0.8	1.1
N253267	Drill Core	42.5	1.5	0.32	0.249	18	0.8	1.0
N253268	Rock	0.2	<0.1	<0.05	<0.005	<1	3.7	<0.5
N253269	Drill Core	40.3	1.6	0.20	0.382	19	1.1	1.0
N253270	Drill Core	32.5	1.5	0.12	0.200	19	1.0	0.8
N253271	Drill Core	34.7	0.9	0.22	0.548	8	0.7	0.9
N253273	Drill Core	19.1	1.1	<0.05	0.105	12	0.8	0.7
N253274	Drill Core	15.3	1.1	0.21	0.149	10	1.1	0.5
N253275	Drill Core	39.1	0.8	0.13	0.049	11	0.8	1.1
N253276	Drill Core	40.9	0.7	0.15	0.072	8	<0.5	1.2
N253277	Drill Core	35.5	0.6	0.15	0.143	11	1.3	1.0
N253278	Drill Core	38.2	0.6	0.14	0.149	7	<0.5	1.0
N253279	Drill Core	40.5	0.9	0.34	0.076	8	1.0	1.1
N253280	Drill Core	29.0	0.8	0.22	0.268	6	0.9	1.0
N253281	Drill Core	29.1	0.8	0.16	0.429	6	<0.5	0.7
N253282	Drill Core	36.4	0.8	0.24	0.473	7	<0.5	0.9
N253283	Drill Core	29.2	0.7	0.34	0.497	7	0.6	1.0
N253284	Rock Pulp	52.3	0.4	<0.05	0.643	<1	4.5	<0.5
N253285	Drill Core	25.7	1.0	0.52	0.666	7	<0.5	0.7
N253286	Drill Core	35.0	0.7	0.30	0.460	17	1.7	1.1
N253287	Drill Core	38.7	0.9	0.34	0.495	10	1.3	1.2
N253288	Rock	0.3	<0.1	<0.05	0.006	<1	3.4	<0.5

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Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253289	Drill Core	3.29	130	91.0	1133.4	4.8	32	<0.1	23.4	31.1	59	6.46	<1	0.7	1.5	127	0.3	0.2	1.1	199	0.95
N253291	Drill Core	7.37	88	86.8	944.9	6.5	39	<0.1	26.5	31.0	118	8.58	1	0.8	1.2	106	<0.1	0.2	1.5	233	0.92
N253292	Drill Core	7.21	71	43.8	960.0	5.9	30	0.1	28.3	25.0	140	6.58	<1	1.2	1.8	121	<0.1	0.3	1.8	282	0.96
N253293	Drill Core	9.32	76	50.0	3429.9	5.3	120	>200	397.1	55.1	139	7.65	<1	0.8	2.7	111	0.2	0.2	1.4	182	1.06
N253294	Drill Core	0.93	206	21.2	298.9	10.6	63	1.3	22.1	10.9	502	7.11	8	0.6	2.3	178	0.2	0.4	0.3	100	1.40
N253295	Drill Core	2.04	414	35.3	371.3	4.5	43	1.4	2.2	5.5	176	9.16	3	0.4	2.5	37	0.2	0.1	0.3	38	0.17
N253296	Drill Core	2.45	204	41.3	845.9	5.6	26	0.4	1.6	5.2	116	10.02	12	0.5	3.8	46	<0.1	0.3	0.2	66	0.11
N253297	Drill Core	4.34	188	85.5	1383.8	6.9	10	0.2	0.8	2.3	30	17.57	1	0.7	3.6	5	<0.1	0.1	<0.1	55	0.02
N253298	Drill Core	0.92	191	74.6	1162.5	6.4	9	0.2	0.8	1.7	34	14.48	2	0.6	2.9	4	<0.1	0.2	<0.1	46	0.01
N253299	Drill Core	2.65	156	41.4	638.2	8.6	13	0.8	1.6	6.4	59	8.48	<1	0.5	3.0	5	<0.1	<0.1	0.1	64	0.02
N253300	Drill Core	4.14	87	24.8	534.5	8.4	14	0.2	2.0	6.2	85	7.25	<1	0.4	2.7	35	<0.1	0.1	<0.1	45	0.07
N253301	Drill Core	3.75	188	31.1	563.0	7.9	14	0.2	2.5	13.0	74	8.19	<1	0.5	2.2	56	<0.1	0.1	<0.1	51	0.10
N253302	Drill Core	3.27	134	34.5	981.9	5.3	13	0.4	2.7	17.6	81	7.02	<1	0.6	2.6	71	<0.1	<0.1	<0.1	55	0.12
N253303	Rock Pulp	0.06	190	392.4	1962.2	25.5	61	13.5	16.7	11.3	773	3.76	13	0.9	1.6	423	0.3	32.6	1.8	87	2.87
N253304	Drill Core	7.38	251	92.7	2062.2	5.5	25	0.5	2.7	13.4	116	7.44	<1	0.5	2.8	62	<0.1	<0.1	<0.1	70	0.12
N253305	Drill Core	5.13	219	98.2	2875.9	6.8	18	0.6	3.2	22.9	100	8.30	4	0.6	2.9	57	0.1	0.2	<0.1	62	0.09
N253306	Drill Core	2.30	366	113.8	1442.7	13.0	23	0.8	2.0	5.9	70	10.54	4	0.9	3.5	40	<0.1	0.2	<0.1	75	0.11
N253307	Drill Core	5.01	1056	69.6	5326.2	6.8	21	0.4	4.0	13.7	120	6.53	<1	0.8	3.0	115	<0.1	<0.1	<0.1	73	0.22
N253308	Drill Core	3.18	424	83.3	4776.1	20.8	33	0.5	4.6	12.3	159	7.33	5	0.9	3.0	92	<0.1	0.1	<0.1	69	0.23
N253310	Drill Core	7.49	119	87.2	3466.9	10.7	57	1.1	4.0	21.5	326	8.15	<1	0.6	2.8	74	0.1	<0.1	<0.1	55	0.70
N253311	Drill Core	8.05	54	18.1	1809.4	19.5	77	0.4	6.6	21.4	758	6.57	4	1.1	2.2	235	<0.1	0.2	<0.1	111	1.85
N253312	Drill Core	8.05	9	2.2	580.0	28.9	91	0.2	7.0	18.7	1185	5.14	3	1.5	2.8	370	0.1	0.3	<0.1	157	3.94
N253313	Rock	1.33	<2	0.1	3.6	0.6	1	<0.1	<0.1	0.9	34	0.03	2	1.5	<0.1	5093	<0.1	0.1	<0.1	<1	38.39
N253314	Drill Core	5.67	15	2.7	979.7	61.7	124	0.3	7.6	19.5	1159	5.61	1	1.1	3.0	448	0.2	0.3	<0.1	148	2.12
N253315	Drill Core	7.22	259	27.1	3389.0	13.5	84	1.7	2.9	19.7	471	7.48	<1	0.5	2.4	64	0.3	<0.1	<0.1	58	0.57
N253316	Drill Core	8.68	268	68.8	3989.4	6.5	67	1.7	5.0	44.9	450	9.91	<1	0.4	2.6	30	0.3	0.1	0.2	71	0.27
N253317	Drill Core	8.77	161	68.0	3083.7	5.8	52	1.6	14.0	21.4	349	7.20	<1	0.6	3.0	53	0.4	0.2	0.1	48	0.56
N253318	Drill Core	7.21	279	43.1	4505.8	21.1	62	0.7	19.2	19.5	324	9.08	2	0.5	3.0	82	0.3	<0.1	<0.1	57	0.42
N253319	Drill Core	10.05	348	95.5	4363.4	5.2	40	0.4	3.1	17.6	215	10.28	<1	0.4	2.3	87	0.2	<0.1	<0.1	46	0.64
N253320	Drill Core	9.93	304	115.4	2594.9	4.8	40	0.4	3.3	14.4	223	9.78	<1	0.4	2.4	62	<0.1	<0.1	<0.1	51	1.22

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

		Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253289	Drill Core		0.101	11.6	22	1.89	53	0.226	9.13	0.323	1.57	0.4	24.2	24	9.5	11.5	1.5	<0.1	<1	22	5.3	5.7
N253291	Drill Core		0.108	10.3	19	2.65	54	0.255	9.75	0.289	1.72	0.5	25.1	23	6.9	10.3	1.7	<0.1	1	23	7.4	7.6
N253292	Drill Core		0.101	21.4	37	2.89	96	0.297	10.69	0.318	1.71	0.4	31.1	40	6.8	12.4	1.8	0.1	2	30	8.6	6.2
N253293	Drill Core		0.085	19.1	27	2.32	31	0.165	8.14	0.288	1.23	>200	24.1	38	3.7	15.9	0.8	<0.1	<1	25	5.8	6.2
N253294	Drill Core		0.034	6.5	51	1.34	365	0.269	4.97	1.045	0.78	3.7	36.0	13	2.2	7.0	2.9	0.2	<1	12	5.2	0.1
N253295	Drill Core		0.013	2.9	5	0.77	305	0.079	4.19	0.390	1.37	6.0	15.6	5	2.4	2.6	1.5	0.1	<1	5	4.5	<0.1
N253296	Drill Core		0.042	1.4	7	0.46	203	0.186	3.92	0.677	0.80	1.0	38.0	3	2.4	2.1	3.4	0.2	<1	7	8.2	0.4
N253297	Drill Core		0.019	0.5	6	0.22	91	0.141	3.97	0.028	0.93	1.7	14.4	<1	3.6	1.0	4.5	0.3	<1	8	3.5	0.2
N253298	Drill Core		0.020	0.5	6	0.15	67	0.105	2.80	0.022	0.64	1.1	12.5	<1	2.9	0.9	3.3	0.2	<1	6	3.2	0.2
N253299	Drill Core		0.021	0.8	7	0.45	143	0.108	5.00	0.042	0.97	3.4	15.1	1	3.1	1.3	2.5	0.2	<1	7	5.5	<0.1
N253300	Drill Core		0.018	1.0	7	0.44	163	0.107	4.02	0.794	0.87	1.3	13.8	2	7.7	1.4	2.3	0.2	<1	6	4.0	<0.1
N253301	Drill Core		0.012	1.0	6	0.51	136	0.142	5.04	1.200	0.76	1.3	16.0	2	7.3	1.5	3.2	0.2	<1	6	3.2	<0.1
N253302	Drill Core		0.016	1.7	5	0.63	135	0.139	5.64	1.444	0.84	0.7	18.4	3	2.3	1.5	3.2	0.2	<1	8	4.8	0.5
N253303	Rock Pulp		0.049	7.9	23	0.92	750	0.209	7.53	2.421	1.89	1.9	10.3	17	2.8	10.9	2.6	0.1	<1	9	8.1	0.3
N253304	Drill Core		0.016	2.4	6	0.60	38	0.115	5.59	1.093	0.86	1.0	12.8	4	2.6	2.2	2.5	0.2	<1	9	4.7	2.1
N253305	Drill Core		0.012	2.2	6	0.60	59	0.126	4.51	1.193	0.63	0.7	14.1	4	2.3	2.1	3.7	0.2	<1	8	4.9	1.8
N253306	Drill Core		0.018	2.2	7	0.38	157	0.149	5.53	0.614	0.75	0.9	16.4	4	3.0	2.4	3.9	0.2	<1	9	4.0	0.4
N253307	Drill Core		0.016	6.0	6	0.90	88	0.144	5.05	2.104	0.43	0.7	14.3	10	2.9	4.1	3.3	0.2	<1	8	8.3	1.0
N253308	Drill Core		0.048	6.3	6	0.80	122	0.129	6.20	1.632	0.51	0.8	13.6	11	2.6	3.8	3.3	0.2	<1	12	10.3	1.1
N253310	Drill Core		0.022	5.2	6	0.95	78	0.136	4.86	1.148	0.47	0.9	11.4	10	3.1	5.6	3.2	0.2	<1	8	9.1	2.2
N253311	Drill Core		0.049	11.1	7	1.46	58	0.329	7.41	2.413	1.14	0.8	50.9	21	1.8	13.6	3.9	0.2	<1	15	10.9	1.4
N253312	Drill Core		0.070	26.9	8	1.84	393	0.408	8.72	1.861	1.88	1.0	68.3	46	0.9	28.5	4.3	0.3	<1	23	9.0	1.1
N253313	Rock		0.004	0.4	1	2.20	7	0.002	0.05	0.011	<0.01	<0.1	0.7	<1	<0.1	0.4	0.1	<0.1	<1	<1	0.3	<0.1
N253314	Drill Core		0.066	25.7	7	1.89	209	0.399	8.59	2.355	2.73	1.0	62.2	46	0.9	27.6	4.2	0.3	<1	21	12.1	0.8
N253315	Drill Core		0.008	4.7	5	1.08	60	0.127	3.89	1.143	0.36	0.8	13.0	9	2.9	6.8	2.6	0.2	<1	7	8.1	2.1
N253316	Drill Core		0.012	4.7	5	1.17	29	0.097	4.22	0.408	0.90	0.6	10.6	9	2.9	6.7	2.4	0.2	<1	7	9.3	3.1
N253317	Drill Core		0.019	7.7	29	0.82	81	0.120	4.56	0.772	0.80	0.8	17.0	15	2.7	8.4	3.4	0.2	<1	8	8.6	1.9
N253318	Drill Core		0.015	7.1	40	0.93	92	0.114	4.20	1.254	0.40	0.4	13.8	13	3.3	7.5	2.1	0.2	<1	9	7.8	1.4
N253319	Drill Core		0.010	3.6	4	0.99	56	0.086	3.36	1.283	0.21	0.5	8.2	6	3.5	5.6	2.0	0.2	<1	5	6.4	2.0
N253320	Drill Core		0.018	4.1	5	0.98	89	0.065	3.43	0.921	0.50	0.3	9.3	8	2.6	7.1	1.6	0.1	<1	5	7.2	2.7

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Northisle Copper and Gold Inc.**
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Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253289	Drill Core	36.7	0.7	0.19	0.585	7	0.6	0.9
N253291	Drill Core	28.2	0.7	0.26	0.505	9	2.0	1.1
N253292	Drill Core	43.4	1.2	0.17	0.241	5	2.0	1.0
N253293	Drill Core	34.3	0.7	0.22	0.286	7	0.8	0.8
N253294	Drill Core	18.9	1.3	0.20	0.013	3	0.5	<0.5
N253295	Drill Core	34.3	0.4	0.18	0.026	3	0.5	<0.5
N253296	Drill Core	28.1	0.9	0.23	0.020	9	0.6	<0.5
N253297	Drill Core	43.4	0.4	0.27	0.023	11	<0.5	<0.5
N253298	Drill Core	27.9	0.4	0.33	0.030	10	<0.5	<0.5
N253299	Drill Core	39.5	0.5	0.31	0.026	9	<0.5	<0.5
N253300	Drill Core	34.3	0.4	0.14	0.027	6	<0.5	<0.5
N253301	Drill Core	30.0	0.5	0.13	0.054	13	<0.5	<0.5
N253302	Drill Core	32.9	0.5	0.09	0.158	20	<0.5	<0.5
N253303	Rock Pulp	34.5	0.6	<0.05	0.345	<1	1.3	<0.5
N253304	Drill Core	34.7	0.4	0.11	0.392	12	<0.5	<0.5
N253305	Drill Core	25.5	0.4	0.16	0.278	22	<0.5	<0.5
N253306	Drill Core	31.3	0.4	0.37	0.197	12	<0.5	<0.5
N253307	Drill Core	17.4	0.5	0.21	0.408	8	<0.5	<0.5
N253308	Drill Core	20.1	0.4	0.27	0.379	6	<0.5	<0.5
N253310	Drill Core	19.6	0.3	0.19	0.480	12	<0.5	<0.5
N253311	Drill Core	35.2	1.3	<0.05	0.136	6	<0.5	<0.5
N253312	Drill Core	73.7	2.0	0.07	0.011	<1	<0.5	<0.5
N253313	Rock	0.2	<0.1	<0.05	0.007	<1	6.5	<0.5
N253314	Drill Core	93.7	1.8	0.09	0.011	<1	<0.5	0.5
N253315	Drill Core	14.5	0.3	0.15	0.186	12	<0.5	<0.5
N253316	Drill Core	34.7	0.3	0.18	0.482	29	<0.5	<0.5
N253317	Drill Core	30.9	0.5	0.19	0.387	10	<0.5	<0.5
N253318	Drill Core	17.0	0.4	0.28	0.166	8	<0.5	<0.5
N253319	Drill Core	8.6	0.2	0.35	0.202	9	<0.5	<0.5
N253320	Drill Core	19.0	0.3	0.26	0.195	9	<0.5	<0.5

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CERTIFICATE OF ANALYSIS VAN16001469.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253321	Rock Pulp	0.05	565	794.5	5908.7	37.3	56	29.5	18.4	5.9	414	2.81	17	1.7	2.2	283	0.4	69.8	1.9	33	1.22
N253322	Drill Core	8.26	386	100.2	2895.9	4.3	41	0.7	2.8	15.2	256	9.49	<1	0.4	2.0	22	0.3	0.2	0.4	47	1.61
N253323	Drill Core	10.58	380	74.1	2887.2	4.8	54	0.7	3.2	17.6	319	8.44	<1	0.5	2.5	65	0.4	0.1	<0.1	51	1.16
N253324	Drill Core	4.15	496	44.0	2599.4	3.7	34	0.5	2.5	13.7	201	8.46	2	0.5	2.4	80	0.2	0.2	<0.1	40	2.08
N253326	Drill Core	9.96	405	43.0	2716.8	2.6	25	0.4	2.4	15.2	163	7.78	4	0.4	2.1	76	<0.1	0.1	0.1	39	5.24
N253327	Drill Core	9.60	376	211.9	2771.6	3.3	21	0.4	3.9	12.9	155	7.59	<1	0.5	2.7	111	0.1	0.2	<0.1	44	5.20
N253328	Drill Core	9.47	362	83.2	2673.4	5.1	40	0.7	3.4	15.3	245	7.60	4	0.5	2.4	57	0.2	0.2	0.2	48	2.99
N253329	Drill Core	9.18	345	68.3	2907.7	4.6	43	0.7	3.1	12.0	272	7.47	<1	0.5	2.6	67	0.1	0.1	0.2	51	2.69
N253330	Drill Core	9.31	388	56.1	3072.7	3.4	32	0.4	4.9	14.8	207	5.39	<1	0.7	1.8	35	0.1	0.3	0.3	31	1.03
N253331	Rock	1.65	<2	<0.1	2.6	0.3	1	<0.1	<0.1	0.5	42	0.05	5	1.7	<0.1	4807	<0.1	0.1	<0.1	2	35.40
N253332	Drill Core	9.48	559	88.8	2439.6	6.8	34	0.3	3.8	14.1	202	4.13	<1	0.9	2.0	31	0.1	0.2	0.2	42	1.07
N253333	Drill Core	9.64	538	228.6	2519.1	7.0	27	0.3	4.8	19.4	174	4.66	<1	0.4	2.2	43	0.1	0.2	0.1	32	1.75
N253334	Drill Core	8.73	519	78.9	2370.7	2.5	36	0.4	3.8	14.1	211	6.41	2	0.4	2.2	63	0.1	0.2	0.1	43	3.60
N253335	Drill Core	10.74	561	61.1	2957.2	2.7	40	0.5	4.2	11.5	238	8.51	4	0.5	2.4	74	0.2	0.2	<0.1	49	1.04
N253336	Drill Core	8.35	365	25.9	1626.8	2.7	31	0.3	4.9	13.3	201	6.66	16	0.4	2.0	14	<0.1	0.8	0.4	39	1.06
N253337	Drill Core	10.41	465	53.8	2408.7	2.9	35	0.4	4.8	18.7	238	8.19	10	0.4	2.7	71	<0.1	0.4	0.3	50	0.81
N253338	Drill Core	9.98	643	97.2	3263.2	2.4	29	0.3	4.4	16.8	199	8.29	<1	0.4	2.7	73	<0.1	0.1	<0.1	42	0.51
N253339	Drill Core	10.02	609	65.8	2704.0	2.7	32	0.3	3.9	13.8	213	7.75	3	0.4	2.5	41	0.1	0.1	0.2	49	0.65
N253340	Drill Core	9.56	582	66.0	2721.4	3.6	42	0.4	3.7	11.0	230	8.30	<1	0.3	2.1	35	0.2	<0.1	0.5	43	0.43
N253341	Rock Pulp	0.06	216	398.4	1906.0	26.0	58	12.7	15.1	11.0	743	3.58	13	1.2	2.1	417	0.3	33.5	2.1	83	2.76
N253342	Drill Core	10.85	563	28.8	2456.4	2.5	37	0.5	4.4	12.9	215	7.57	<1	0.3	2.3	28	<0.1	<0.1	0.4	38	0.41
N253343	Drill Core	9.06	571	61.8	2370.6	2.3	36	0.4	3.8	16.3	219	7.62	<1	0.4	2.1	41	<0.1	<0.1	0.3	49	0.46
N253344	Drill Core	11.23	432	56.3	2177.3	3.3	41	0.4	3.6	14.1	248	5.97	<1	0.4	2.2	57	0.1	0.1	0.3	59	0.64
N253345	Drill Core	10.77	471	35.0	2172.4	2.1	31	0.4	3.9	11.9	203	5.91	<1	0.4	2.1	25	<0.1	0.1	0.4	51	0.68
N253346	Drill Core	9.88	545	47.6	2619.4	2.4	28	0.3	3.2	10.8	192	4.84	<1	0.4	2.7	53	<0.1	<0.1	0.2	49	1.16
N253347	Drill Core	9.99	666	59.4	2933.2	1.9	32	0.3	4.2	11.2	206	6.36	<1	0.3	1.9	36	0.2	<0.1	0.2	48	0.61
N253348	Drill Core	10.61	624	34.1	3123.8	2.7	29	0.4	4.4	24.4	207	7.35	<1	0.3	1.8	22	<0.1	<0.1	0.3	48	0.46
N253349	Drill Core	4.61	950	53.2	3016.0	2.0	32	0.3	4.0	22.6	212	7.59	<1	0.3	1.9	32	<0.1	<0.1	0.3	47	0.52
N253351	Drill Core	9.98	975	68.0	2978.3	2.7	39	0.4	4.0	22.0	244	8.32	<1	0.5	2.5	93	<0.1	0.1	0.3	51	0.81
N253352	Drill Core	9.91	727	42.8	2919.4	2.4	41	0.4	4.0	22.8	236	8.58	<1	0.4	2.2	58	0.1	0.1	0.4	51	1.24

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Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253321	Rock Pulp	0.025	12.2	24	0.20	93	0.082	5.90	1.780	2.38	2.4	9.3	22	2.9	7.5	2.0	0.1	<1	2	8.1	1.0
N253322	Drill Core	0.014	3.8	4	0.98	62	0.059	3.23	0.198	0.77	0.7	7.9	8	3.2	6.6	1.5	0.1	<1	5	9.0	2.0
N253323	Drill Core	0.014	5.6	5	1.19	103	0.079	3.75	0.832	0.56	0.4	11.7	11	3.1	7.5	2.3	0.2	<1	6	9.2	1.4
N253324	Drill Core	0.020	5.6	10	1.06	82	0.085	3.33	0.882	0.49	0.4	9.5	10	2.9	7.3	2.6	0.2	<1	6	8.0	1.5
N253326	Drill Core	0.017	5.0	4	0.93	83	0.080	3.22	0.671	0.51	0.4	7.8	10	2.5	6.6	2.6	0.2	<1	5	6.6	1.6
N253327	Drill Core	0.017	7.0	7	0.82	71	0.111	3.39	1.152	0.40	0.7	12.8	13	2.4	6.7	2.9	0.2	<1	5	6.3	1.9
N253328	Drill Core	0.015	5.8	5	1.20	92	0.111	3.94	0.682	0.70	0.5	11.3	11	2.6	8.3	3.5	0.2	<1	6	9.9	2.7
N253329	Drill Core	0.017	5.5	5	1.05	73	0.081	3.44	0.935	0.42	0.8	9.7	10	2.3	6.9	2.0	0.1	<1	6	8.3	1.8
N253330	Drill Core	0.012	5.2	6	1.00	107	0.071	3.51	0.825	0.50	0.5	8.7	10	2.7	6.6	2.0	0.1	<1	5	8.5	1.2
N253331	Rock	0.004	0.3	2	2.16	10	0.002	0.08	0.027	<0.01	<0.1	1.1	<1	<0.1	0.3	0.2	<0.1	<1	<1	0.2	<0.1
N253332	Drill Core	0.012	6.5	6	1.29	131	0.080	3.71	0.531	0.72	0.6	7.6	13	8.9	7.0	2.3	0.1	<1	6	10.4	0.9
N253333	Drill Core	0.009	5.5	7	1.02	99	0.063	3.04	0.542	0.48	0.3	7.1	11	9.5	7.0	1.8	0.1	<1	5	8.8	1.2
N253334	Drill Core	0.018	3.6	5	0.93	114	0.054	3.48	0.558	0.64	0.3	8.5	7	2.4	6.0	1.5	0.1	<1	4	8.8	2.0
N253335	Drill Core	0.020	3.5	5	1.04	106	0.055	4.00	0.930	0.59	0.2	10.2	7	2.4	6.3	1.2	<0.1	<1	5	8.7	1.9
N253336	Drill Core	0.010	5.6	7	0.81	164	0.058	2.73	0.148	0.61	0.6	5.9	11	3.5	6.5	1.5	0.1	<1	7	10.2	2.4
N253337	Drill Core	0.011	4.3	5	0.92	136	0.080	3.80	0.877	0.60	0.4	9.6	8	3.4	7.9	2.2	0.2	<1	5	9.7	1.8
N253338	Drill Core	0.015	4.4	6	1.07	110	0.075	4.02	1.173	0.51	0.3	10.1	8	3.2	6.5	2.0	0.1	<1	5	8.4	1.8
N253339	Drill Core	0.015	4.3	6	1.14	95	0.071	3.80	0.701	0.63	0.3	9.6	8	2.8	5.6	1.9	0.1	<1	5	8.7	1.5
N253340	Drill Core	0.014	3.2	5	1.22	116	0.059	3.31	0.514	0.52	0.3	6.4	6	2.6	6.4	1.3	<0.1	<1	5	8.4	1.5
N253341	Rock Pulp	0.052	10.6	22	0.87	753	0.198	7.48	2.190	1.82	1.5	9.6	23	2.9	11.9	2.6	0.2	<1	9	8.4	0.3
N253342	Drill Core	0.010	3.4	5	1.06	142	0.060	3.25	0.400	0.63	0.3	6.5	6	3.0	5.6	1.4	0.1	<1	6	6.8	1.7
N253343	Drill Core	0.010	3.8	5	0.97	109	0.066	3.61	0.849	0.47	0.3	7.5	7	2.6	6.2	1.3	0.1	<1	6	6.9	1.3
N253344	Drill Core	0.016	4.3	6	1.07	109	0.084	3.77	0.898	0.51	0.4	8.2	8	2.7	7.0	2.3	0.1	<1	6	7.4	1.4
N253345	Drill Core	0.016	4.1	6	1.04	147	0.083	3.55	0.435	0.70	0.5	7.8	8	2.8	6.7	1.8	0.1	<1	6	6.5	1.3
N253346	Drill Core	0.015	5.9	5	0.89	138	0.080	3.69	0.927	0.61	0.4	7.9	12	2.8	9.1	2.4	0.2	<1	5	5.9	0.8
N253347	Drill Core	0.014	4.6	5	1.05	115	0.061	3.17	0.338	0.63	0.3	7.5	9	2.8	7.2	1.8	<0.1	<1	5	7.0	0.8
N253348	Drill Core	0.006	4.1	6	0.98	134	0.065	3.13	0.227	0.66	0.4	6.5	8	2.9	5.9	1.6	<0.1	<1	5	6.4	0.6
N253349	Drill Core	0.009	3.8	6	1.02	138	0.069	3.29	0.358	0.64	0.4	7.2	7	3.1	5.5	1.8	0.1	<1	6	6.2	0.5
N253351	Drill Core	0.012	6.2	6	0.99	175	0.079	4.03	0.770	0.71	0.4	10.7	12	3.3	7.3	1.9	0.1	<1	7	5.8	0.5
N253352	Drill Core	0.013	5.9	6	1.01	158	0.068	3.81	0.465	0.78	0.5	10.6	11	3.3	6.8	1.6	0.1	<1	6	6.3	0.7

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253321	Rock Pulp	49.9	0.4	<0.05	0.540	<1	3.1	<0.5
N253322	Drill Core	28.6	0.2	0.19	0.311	15	<0.5	<0.5
N253323	Drill Core	22.8	0.4	0.24	0.342	11	<0.5	<0.5
N253324	Drill Core	20.3	0.3	0.27	0.179	10	<0.5	<0.5
N253326	Drill Core	23.0	0.3	0.18	0.171	10	0.6	<0.5
N253327	Drill Core	17.8	0.3	0.16	0.360	11	<0.5	<0.5
N253328	Drill Core	30.0	0.4	0.11	0.240	9	<0.5	<0.5
N253329	Drill Core	16.6	0.4	0.20	0.373	10	<0.5	<0.5
N253330	Drill Core	19.7	0.3	0.20	0.282	13	<0.5	<0.5
N253331	Rock	0.3	<0.1	<0.05	<0.005	<1	2.9	<0.5
N253332	Drill Core	24.3	0.3	0.17	0.341	12	<0.5	<0.5
N253333	Drill Core	17.3	0.2	0.17	0.877	12	<0.5	<0.5
N253334	Drill Core	24.1	0.2	0.18	0.378	10	<0.5	<0.5
N253335	Drill Core	22.9	0.3	0.38	0.309	10	<0.5	<0.5
N253336	Drill Core	21.3	0.2	0.19	0.258	9	<0.5	<0.5
N253337	Drill Core	20.8	0.3	0.24	0.645	12	<0.5	<0.5
N253338	Drill Core	19.0	0.4	0.40	1.003	11	<0.5	<0.5
N253339	Drill Core	24.0	0.3	0.24	0.542	10	<0.5	<0.5
N253340	Drill Core	18.3	0.2	0.26	0.567	12	<0.5	<0.5
N253341	Rock Pulp	38.9	0.6	0.08	0.397	<1	1.2	<0.5
N253342	Drill Core	21.5	0.2	0.16	0.644	12	0.5	<0.5
N253343	Drill Core	16.4	0.2	0.22	0.729	9	<0.5	<0.5
N253344	Drill Core	18.2	0.2	0.23	1.439	9	<0.5	<0.5
N253345	Drill Core	23.6	0.3	0.18	0.714	12	<0.5	<0.5
N253346	Drill Core	19.4	0.3	0.26	0.384	11	<0.5	<0.5
N253347	Drill Core	22.3	0.2	0.21	0.522	10	<0.5	<0.5
N253348	Drill Core	23.8	0.2	0.23	0.497	12	<0.5	<0.5
N253349	Drill Core	22.4	0.2	0.20	0.476	10	<0.5	<0.5
N253351	Drill Core	24.7	0.3	0.22	0.570	8	<0.5	<0.5
N253352	Drill Core	28.7	0.3	0.19	0.350	10	0.7	<0.5

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CERTIFICATE OF ANALYSIS VAN16001469.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253353	Rock	1.59	<2	<0.1	3.1	0.2	<1	<0.1	<0.1	0.6	28	0.04	<1	1.5	<0.1	4686	<0.1	<0.1	<0.1	1	35.59
N253354	Drill Core	9.49	684	31.2	2630.2	2.7	36	0.3	4.1	22.6	236	8.15	<1	0.5	2.0	47	0.1	0.1	0.4	48	0.55
N253355	Drill Core	9.04	60	21.0	481.4	4.0	58	<0.1	8.0	24.0	579	5.87	<1	1.1	2.8	472	0.1	0.1	<0.1	163	3.18
N253356	Drill Core	9.58	9	5.2	194.9	6.0	50	<0.1	10.5	25.8	680	5.72	<1	1.0	2.9	501	<0.1	0.2	<0.1	183	4.02
N253357	Drill Core	10.27	22	20.7	287.9	3.0	40	<0.1	8.9	24.4	608	5.12	<1	1.0	2.9	616	<0.1	0.1	<0.1	180	4.58
N253358	Drill Core	9.55	6	2.6	50.8	2.8	43	<0.1	9.3	22.3	681	5.20	<1	1.0	3.0	540	<0.1	0.1	<0.1	179	4.07
N253359	Drill Core	9.12	13	5.0	234.5	3.0	44	<0.1	8.7	22.3	620	4.93	<1	1.1	2.9	591	<0.1	<0.1	<0.1	174	4.16
N253360	Drill Core	9.33	128	49.2	1436.4	3.4	36	0.2	8.5	23.2	422	4.75	<1	1.0	3.1	515	0.1	<0.1	<0.1	150	2.60
N253361	Drill Core	8.65	361	145.7	3002.9	2.2	23	0.3	8.5	22.6	183	4.88	<1	0.9	3.5	132	0.1	0.1	0.2	87	0.71
N253362	Drill Core	10.10	425	126.8	3663.7	3.0	16	0.5	7.1	19.5	157	4.33	<1	0.9	3.6	122	<0.1	<0.1	0.2	85	0.98
N253363	Drill Core	8.76	307	136.9	2782.9	2.2	11	0.5	7.5	15.9	141	3.92	<1	0.8	3.0	82	<0.1	<0.1	0.3	91	0.62
N253364	Drill Core	10.59	383	170.2	4155.1	2.2	16	0.8	8.5	24.6	181	4.77	<1	1.1	3.4	61	0.1	0.1	0.2	90	0.89
N253365	Rock Pulp	0.05	617	800.6	5885.4	35.2	55	28.1	19.8	6.2	433	2.89	17	1.6	1.6	286	0.5	71.9	1.9	33	1.28
N253366	Drill Core	10.08	443	110.9	4304.1	1.5	8	0.5	6.5	25.5	108	4.14	<1	1.2	3.7	42	<0.1	<0.1	<0.1	102	0.53
N253367	Drill Core	6.49	293	140.6	3534.4	1.8	13	0.6	7.5	22.4	154	4.38	<1	1.1	3.7	38	0.3	0.2	0.1	91	0.33
N253368	Drill Core	8.53	467	131.7	4261.2	1.7	15	0.6	8.0	20.3	167	4.25	<1	1.0	3.7	70	0.1	0.5	0.1	93	0.71
N253369	Drill Core	9.20	347	134.0	2908.6	2.8	19	0.6	7.3	17.2	197	4.34	<1	1.2	3.5	52	<0.1	0.4	0.2	86	0.82
N253370	Drill Core	9.61	448	167.7	4032.9	2.1	19	0.7	7.4	24.2	196	4.02	<1	1.1	3.5	45	0.2	0.2	0.1	86	0.87
N253371	Drill Core	7.32	441	122.7	4262.6	2.4	22	0.8	7.7	26.9	205	4.74	3	1.0	3.4	54	0.3	0.2	0.1	87	0.49
N253372	Drill Core	8.77	542	141.0	6070.3	2.7	17	0.7	8.8	34.7	168	4.95	<1	1.1	3.3	139	0.2	0.2	0.2	92	0.95
N253373	Drill Core	4.91	700	146.3	6812.9	2.8	18	0.8	10.0	38.5	186	4.57	<1	1.1	3.3	151	0.1	0.2	0.2	119	1.33
N253375	Drill Core	10.66	105	37.8	1830.1	6.3	39	0.2	6.2	22.0	282	5.31	2	0.8	3.1	429	0.2	0.2	<0.1	125	2.70
N253376	Drill Core	9.79	585	50.2	8909.5	4.0	20	1.0	7.9	46.4	174	6.80	3	1.1	3.6	162	0.2	0.1	0.2	75	1.21
N253377	Drill Core	13.27	384	37.5	3539.8	14.6	40	0.6	7.1	39.8	331	6.14	<1	1.2	4.0	266	0.3	0.3	0.1	103	2.55
N253378	Rock	1.61	<2	0.2	5.7	0.3	<1	<0.1	0.9	<0.2	27	0.03	6	1.3	<0.1	4567	<0.1	0.2	<0.1	<1	35.54
N253379	Drill Core	3.86	251	19.2	647.9	7.2	53	0.6	9.3	7.8	189	6.53	18	0.4	2.2	172	<0.1	0.7	0.9	101	0.38
N253249	Drill Core	4.32	84	8.9	593.7	8.2	58	0.3	5.6	15.7	209	6.88	10	1.8	2.5	29	0.3	0.2	1.7	96	0.21
N253272	Drill Core	2.85	50	80.2	1526.2	5.8	15	<0.1	42.6	32.8	58	5.72	4	0.5	0.8	38	0.1	0.2	1.0	166	0.21
N253290	Drill Core	3.34	175	98.1	1044.4	4.8	30	<0.1	22.8	31.7	60	6.38	2	0.8	1.2	105	0.2	0.3	1.3	190	0.78
N253309	Drill Core	2.99	559	92.8	4010.3	15.5	27	0.4	4.4	10.5	129	5.35	7	0.7	2.5	88	<0.1	0.2	<0.1	56	0.23

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Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253353	Rock	0.003	0.9	2	1.88	7	<0.001	0.03	0.004	<0.01	<0.1	0.3	<1	<0.1	0.2	<0.1	<0.1	<1	<1	0.3	<0.1
N253354	Drill Core	0.012	5.7	6	1.03	178	0.092	3.73	0.510	0.83	0.7	9.5	11	3.3	6.9	2.4	0.2	<1	5	6.9	0.3
N253355	Drill Core	0.042	12.4	7	2.15	501	0.349	8.37	2.141	1.14	0.5	32.3	24	3.6	17.8	4.5	0.3	<1	18	14.7	0.3
N253356	Drill Core	0.048	11.1	7	2.36	520	0.392	9.17	2.186	1.05	0.5	37.9	22	3.1	19.0	4.5	0.3	<1	22	12.1	0.4
N253357	Drill Core	0.045	13.0	7	2.27	434	0.385	9.07	2.544	0.90	0.3	35.6	27	3.0	18.1	4.5	0.3	<1	21	13.4	0.9
N253358	Drill Core	0.048	11.8	7	2.18	460	0.391	9.02	2.499	1.23	0.3	40.1	24	2.3	19.6	4.7	0.3	<1	22	8.7	<0.1
N253359	Drill Core	0.046	11.9	7	2.17	467	0.384	8.77	1.926	0.96	0.3	34.2	24	3.3	18.7	4.6	0.3	<1	20	12.9	0.5
N253360	Drill Core	0.046	12.0	7	1.63	508	0.309	8.04	1.757	0.96	0.5	29.2	23	5.1	16.1	4.0	0.3	<1	19	13.1	0.6
N253361	Drill Core	0.032	10.5	8	0.48	406	0.108	5.43	1.042	1.37	0.5	18.0	19	4.1	8.7	1.7	0.1	<1	15	5.9	0.6
N253362	Drill Core	0.030	12.7	7	0.40	341	0.107	5.59	1.040	1.33	0.4	18.7	24	3.8	8.6	1.8	0.1	<1	13	5.6	0.7
N253363	Drill Core	0.029	10.6	8	0.34	341	0.102	5.55	0.867	1.57	0.5	20.0	20	3.2	7.9	1.4	0.1	<1	11	4.9	0.6
N253364	Drill Core	0.032	10.7	9	0.43	388	0.133	5.53	0.612	1.82	0.6	19.0	20	5.4	13.9	2.6	0.2	<1	16	6.4	0.9
N253365	Rock Pulp	0.028	9.0	24	0.19	130	0.085	6.16	1.832	2.25	2.5	8.7	18	2.7	6.2	2.0	0.1	<1	2	8.0	1.0
N253366	Drill Core	0.040	12.9	6	0.29	389	0.166	6.88	0.346	2.22	0.6	25.5	25	6.2	7.9	2.0	0.2	<1	16	10.1	0.6
N253367	Drill Core	0.037	11.0	7	0.32	439	0.132	5.40	0.297	2.17	0.7	22.3	20	5.7	9.1	1.7	0.1	<1	12	6.1	0.6
N253368	Drill Core	0.033	10.5	8	0.38	388	0.130	5.53	0.609	1.87	0.6	22.3	19	6.2	9.5	1.7	0.1	<1	15	5.0	0.6
N253369	Drill Core	0.037	13.3	8	0.45	339	0.130	5.33	0.507	1.74	0.6	18.9	23	5.9	9.7	1.9	0.1	<1	13	7.0	1.2
N253370	Drill Core	0.033	12.1	8	0.37	321	0.128	5.49	0.306	1.85	0.5	19.0	22	6.1	9.9	2.0	0.1	<1	13	6.1	1.3
N253371	Drill Core	0.033	11.1	9	0.37	140	0.150	5.24	0.543	1.87	0.5	17.4	21	5.8	8.7	2.7	0.2	<1	13	6.3	1.9
N253372	Drill Core	0.029	8.7	9	0.38	79	0.134	5.18	1.248	1.17	0.5	16.9	17	6.2	13.5	2.5	0.2	<1	15	6.7	2.7
N253373	Drill Core	0.037	10.8	11	0.68	272	0.180	6.54	1.555	1.53	0.6	18.3	21	5.8	12.9	3.3	0.2	<1	19	7.5	1.9
N253375	Drill Core	0.035	8.6	8	1.55	322	0.287	7.32	1.934	0.76	0.5	19.0	17	3.8	12.1	4.1	0.3	<1	17	10.4	0.5
N253376	Drill Core	0.023	12.5	7	0.51	206	0.137	5.32	1.608	1.34	0.6	15.7	24	7.5	14.7	2.8	0.2	<1	14	6.8	2.1
N253377	Drill Core	0.032	15.5	6	0.97	343	0.229	6.20	1.769	0.93	0.4	16.1	28	5.2	14.4	3.4	0.3	<1	14	7.2	1.2
N253378	Rock	0.004	0.2	2	2.10	16	0.001	0.03	0.005	<0.01	<0.1	0.3	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.5	<0.1
N253379	Drill Core	0.063	5.4	22	0.88	199	0.170	6.11	0.722	0.55	1.3	29.1	11	3.9	4.6	1.4	<0.1	<1	10	6.1	1.2
N253249	Drill Core	0.048	7.1	5	1.92	42	0.137	6.64	0.096	1.59	0.2	67.6	16	3.5	6.5	1.6	0.2	1	10	2.1	4.9
N253272	Drill Core	0.050	3.6	48	2.07	19	0.120	6.62	0.110	1.26	0.3	29.7	9	4.8	2.7	0.8	<0.1	1	15	4.2	5.8
N253290	Drill Core	0.091	8.9	27	1.72	39	0.226	7.34	0.298	1.54	0.5	26.3	20	9.9	9.9	1.5	<0.1	<1	18	5.4	5.9
N253309	Drill Core	0.035	5.3	6	0.75	99	0.116	5.04	1.539	0.45	0.4	12.7	10	2.4	3.2	3.1	0.2	<1	9	9.2	0.9

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

CERTIFICATE OF ANALYSIS VAN16001469.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253353	Rock	0.1	<0.1	<0.05	<0.005	<1	2.3	<0.5
N253354	Drill Core	32.6	0.3	0.23	0.271	11	<0.5	<0.5
N253355	Drill Core	36.0	1.0	0.10	0.127	4	<0.5	<0.5
N253356	Drill Core	33.5	1.2	0.12	0.015	2	<0.5	<0.5
N253357	Drill Core	27.7	1.1	0.10	0.142	2	<0.5	<0.5
N253358	Drill Core	35.7	1.3	0.12	<0.005	<1	<0.5	<0.5
N253359	Drill Core	29.2	1.0	0.10	0.044	2	<0.5	<0.5
N253360	Drill Core	31.1	0.8	0.16	0.293	6	<0.5	<0.5
N253361	Drill Core	44.5	0.6	0.20	0.951	12	<0.5	<0.5
N253362	Drill Core	44.9	0.6	0.19	0.895	11	<0.5	<0.5
N253363	Drill Core	54.1	0.6	0.16	1.056	12	<0.5	<0.5
N253364	Drill Core	61.9	0.6	0.22	1.178	12	<0.5	<0.5
N253365	Rock Pulp	49.1	0.4	<0.05	0.594	<1	3.9	<0.5
N253366	Drill Core	64.4	0.9	0.27	0.636	8	<0.5	<0.5
N253367	Drill Core	67.4	0.7	0.26	0.949	10	<0.5	<0.5
N253368	Drill Core	59.9	0.7	0.29	0.798	11	<0.5	<0.5
N253369	Drill Core	52.8	0.6	0.20	0.812	8	<0.5	<0.5
N253370	Drill Core	57.1	0.6	0.30	1.046	11	<0.5	<0.5
N253371	Drill Core	54.6	0.5	0.30	0.875	15	<0.5	<0.5
N253372	Drill Core	39.0	0.5	0.39	1.090	20	<0.5	<0.5
N253373	Drill Core	47.7	0.5	0.56	0.846	17	<0.5	<0.5
N253375	Drill Core	23.2	0.6	0.16	0.241	5	<0.5	<0.5
N253376	Drill Core	36.5	0.5	0.86	0.286	15	<0.5	<0.5
N253377	Drill Core	29.3	0.6	0.49	0.294	9	<0.5	<0.5
N253378	Rock	0.2	<0.1	<0.05	<0.005	<1	2.5	<0.5
N253379	Drill Core	13.0	0.8	0.10	0.059	8	1.0	<0.5
N253249	Drill Core	18.5	2.2	0.73	0.080	9	0.6	1.0
N253272	Drill Core	13.7	0.8	0.28	0.490	7	0.5	0.8
N253290	Drill Core	28.6	0.7	0.16	0.606	9	0.6	0.9
N253309	Drill Core	16.6	0.4	0.33	0.527	5	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
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Report Date: September 09, 2016

QUALITY CONTROL REPORT VAN16001469.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
N253268	Rock	1.87	<2	0.2	3.6	0.5	2	<0.1	0.8	0.6	36	0.04	<1	1.5	<0.1	5073	<0.1	<0.1	<0.1	1	35.65
REP N253268	QC		<2																		
N253291	Drill Core	7.37	88	86.8	944.9	6.5	39	<0.1	26.5	31.0	118	8.58	1	0.8	1.2	106	<0.1	0.2	1.5	233	0.92
REP N253291	QC			83.6	950.8	6.4	36	<0.1	26.0	30.4	127	8.60	<1	0.8	1.3	105	<0.1	0.1	1.7	234	0.91
N253302	Drill Core	3.27	134	34.5	981.9	5.3	13	0.4	2.7	17.6	81	7.02	<1	0.6	2.6	71	<0.1	<0.1	<0.1	55	0.12
REP N253302	QC		133																		
N253326	Drill Core	9.96	405	43.0	2716.8	2.6	25	0.4	2.4	15.2	163	7.78	4	0.4	2.1	76	<0.1	0.1	0.1	39	5.24
REP N253326	QC			41.2	2725.5	2.7	23	0.5	2.6	14.8	165	7.82	4	0.4	2.2	78	0.1	0.2	0.1	39	5.25
N253338	Drill Core	9.98	643	97.2	3263.2	2.4	29	0.3	4.4	16.8	199	8.29	<1	0.4	2.7	73	<0.1	0.1	<0.1	42	0.51
REP N253338	QC		662																		
N253363	Drill Core	8.76	307	136.9	2782.9	2.2	11	0.5	7.5	15.9	141	3.92	<1	0.8	3.0	82	<0.1	<0.1	0.3	91	0.62
REP N253363	QC			140.7	2789.1	2.3	12	0.5	8.1	16.5	143	3.93	<1	0.9	3.1	80	<0.1	0.1	0.3	91	0.63
N253372	Drill Core	8.77	542	141.0	6070.3	2.7	17	0.7	8.8	34.7	168	4.95	<1	1.1	3.3	139	0.2	0.2	0.2	92	0.95
REP N253372	QC		596																		
N253373	Drill Core	4.91	700	146.3	6812.9	2.8	18	0.8	10.0	38.5	186	4.57	<1	1.1	3.3	151	0.1	0.2	0.2	119	1.33
REP N253373	QC			142.8	6490.3	2.5	18	0.8	10.0	34.4	173	4.39	<1	1.1	3.2	145	0.2	0.2	0.1	114	1.25
Core Reject Duplicates																					
N253269	Drill Core	5.63	55	54.9	1164.2	6.0	22	0.1	15.9	29.0	51	6.44	24	1.4	2.7	30	0.3	0.3	1.4	167	0.15
DUP N253269	QC		43	55.4	1160.4	7.0	21	0.1	16.3	29.5	52	6.51	26	1.5	2.8	28	0.4	0.2	1.4	164	0.14
N253305	Drill Core	5.13	219	98.2	2875.9	6.8	18	0.6	3.2	22.9	100	8.30	4	0.6	2.9	57	0.1	0.2	<0.1	62	0.09
DUP N253305	QC		214	97.1	3000.1	7.1	16	0.6	3.0	23.4	95	8.35	4	0.6	2.8	59	<0.1	0.1	<0.1	63	0.10
N253377	Drill Core	13.27	384	37.5	3539.8	14.6	40	0.6	7.1	39.8	331	6.14	<1	1.2	4.0	266	0.3	0.3	0.1	103	2.55
DUP N253377	QC		358	37.7	3523.8	14.1	43	0.6	7.3	41.0	324	6.21	1	1.1	4.1	265	0.3	0.2	0.1	105	2.62
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	32.1	25.9	39	<0.1	48.4	8.6	495	6.69	10	2.8	16.4	45	<0.1	0.6	0.4	163	0.30
STD OREAS25A-4A	Standard			2.3	40.2	26.5	52	0.1	48.1	8.0	518	6.98	10	3.1	16.7	51	0.4	0.7	0.4	165	0.30
STD OREAS25A-4A	Standard			2.5	37.4	26.4	47	<0.1	44.7	7.9	457	6.45	10	3.0	15.0	47	<0.1	0.8	0.4	159	0.26
STD OREAS25A-4A	Standard			2.7	35.2	25.2	45	<0.1	44.6	8.1	523	6.74	10	2.9	16.5	49	0.2	0.6	0.3	174	0.29

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

QUALITY CONTROL REPORT VAN16001469.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N253268	Rock	0.004	0.3	2	1.96	8	0.001	0.06	0.004	<0.01	<0.1	0.5	<1	<0.1	0.3	0.1	<0.1	<1	<1	0.2	<0.1
REP N253268	QC																				
N253291	Drill Core	0.108	10.3	19	2.65	54	0.255	9.75	0.289	1.72	0.5	25.1	23	6.9	10.3	1.7	<0.1	1	23	7.4	7.6
REP N253291	QC	0.106	11.6	22	2.67	58	0.267	9.71	0.295	1.70	0.6	26.5	25	7.2	10.5	1.8	0.1	1	22	8.0	7.3
N253302	Drill Core	0.016	1.7	5	0.63	135	0.139	5.64	1.444	0.84	0.7	18.4	3	2.3	1.5	3.2	0.2	<1	8	4.8	0.5
REP N253302	QC																				
N253326	Drill Core	0.017	5.0	4	0.93	83	0.080	3.22	0.671	0.51	0.4	7.8	10	2.5	6.6	2.6	0.2	<1	5	6.6	1.6
REP N253326	QC	0.017	5.3	4	0.93	87	0.081	3.23	0.696	0.52	0.4	8.1	10	2.7	6.9	2.7	0.2	<1	5	6.7	1.6
N253338	Drill Core	0.015	4.4	6	1.07	110	0.075	4.02	1.173	0.51	0.3	10.1	8	3.2	6.5	2.0	0.1	<1	5	8.4	1.8
REP N253338	QC																				
N253363	Drill Core	0.029	10.6	8	0.34	341	0.102	5.55	0.867	1.57	0.5	20.0	20	3.2	7.9	1.4	0.1	<1	11	4.9	0.6
REP N253363	QC	0.029	11.3	8	0.34	369	0.112	5.62	0.867	1.62	0.5	20.8	21	3.5	8.2	1.6	0.1	<1	12	5.2	0.6
N253372	Drill Core	0.029	8.7	9	0.38	79	0.134	5.18	1.248	1.17	0.5	16.9	17	6.2	13.5	2.5	0.2	<1	15	6.7	2.7
REP N253372	QC																				
N253373	Drill Core	0.037	10.8	11	0.68	272	0.180	6.54	1.555	1.53	0.6	18.3	21	5.8	12.9	3.3	0.2	<1	19	7.5	1.9
REP N253373	QC	0.036	10.1	11	0.64	277	0.172	6.21	1.617	1.46	0.6	18.9	20	5.5	12.2	3.4	0.2	<1	20	7.5	1.8
Core Reject Duplicates																					
N253269	Drill Core	0.058	10.6	12	1.81	38	0.173	8.76	0.104	1.69	0.4	53.5	24	6.0	11.0	1.8	0.1	<1	22	4.7	6.7
DUP N253269	QC	0.057	10.7	12	1.80	31	0.174	8.96	0.101	1.68	0.6	53.7	25	6.0	10.9	1.7	0.1	<1	22	4.6	7.0
N253305	Drill Core	0.012	2.2	6	0.60	59	0.126	4.51	1.193	0.63	0.7	14.1	4	2.3	2.1	3.7	0.2	<1	8	4.9	1.8
DUP N253305	QC	0.012	2.2	6	0.61	53	0.129	4.61	1.138	0.64	0.7	13.5	4	2.6	2.1	3.7	0.2	<1	8	4.3	1.8
N253377	Drill Core	0.032	15.5	6	0.97	343	0.229	6.20	1.769	0.93	0.4	16.1	28	5.2	14.4	3.4	0.3	<1	14	7.2	1.2
DUP N253377	QC	0.035	16.1	6	0.98	368	0.232	6.30	1.723	0.94	0.4	17.3	29	5.3	14.9	3.5	0.3	<1	14	7.8	1.2
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	24.4	124	0.34	153	0.906	9.31	0.135	0.50	1.8	154.0	52	4.2	11.0	20.7	1.5	<1	13	41.4	<0.1
STD OREAS25A-4A	Standard	0.051	23.4	125	0.36	159	0.945	9.50	0.141	0.51	2.0	163.8	51	4.4	10.8	21.6	1.6	<1	13	38.7	<0.1
STD OREAS25A-4A	Standard	0.050	21.0	120	0.32	149	0.880	8.40	0.135	0.48	1.9	152.3	45	4.2	10.0	19.9	1.4	1	13	40.3	<0.1
STD OREAS25A-4A	Standard	0.050	23.2	124	0.33	150	0.930	9.90	0.129	0.53	2.0	157.0	52	3.8	11.1	19.9	1.4	<1	13	39.5	<0.1

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253268	Rock	0.2	<0.1	<0.05	<0.005	<1	3.7	<0.5
REP N253268	QC							
N253291	Drill Core	28.2	0.7	0.26	0.505	9	2.0	1.1
REP N253291	QC	30.9	0.6	0.12	0.507	9	2.4	1.0
N253302	Drill Core	32.9	0.5	0.09	0.158	20	<0.5	<0.5
REP N253302	QC							
N253326	Drill Core	23.0	0.3	0.18	0.171	10	0.6	<0.5
REP N253326	QC	23.2	0.3	0.19	0.147	10	<0.5	<0.5
N253338	Drill Core	19.0	0.4	0.40	1.003	11	<0.5	<0.5
REP N253338	QC							
N253363	Drill Core	54.1	0.6	0.16	1.056	12	<0.5	<0.5
REP N253363	QC	54.4	0.7	0.13	1.133	14	<0.5	<0.5
N253372	Drill Core	39.0	0.5	0.39	1.090	20	<0.5	<0.5
REP N253372	QC							
N253373	Drill Core	47.7	0.5	0.56	0.846	17	<0.5	<0.5
REP N253373	QC	44.8	0.5	0.50	0.817	15	<0.5	<0.5
Core Reject Duplicates								
N253269	Drill Core	40.3	1.6	0.20	0.382	19	1.1	1.0
DUP N253269	QC	41.0	1.5	0.20	0.378	19	1.1	1.0
N253305	Drill Core	25.5	0.4	0.16	0.278	22	<0.5	<0.5
DUP N253305	QC	26.6	0.4	0.14	0.256	26	<0.5	<0.5
N253377	Drill Core	29.3	0.6	0.49	0.294	9	<0.5	<0.5
DUP N253377	QC	30.1	0.6	0.44	0.271	8	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	63.4	4.3	0.11	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.3	4.6	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.9	4.3	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	63.1	4.0	<0.05	<0.005	2	<0.5	<0.5

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

QUALITY CONTROL REPORT VAN16001469.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.4	791.0	17.8	47	0.3	475.9	61.6	614	26.36	19	2.3	12.7	17	<0.1	1.1	0.3	321	0.08
STD OREAS45E	Standard			2.6	828.4	19.6	46	0.3	491.6	63.7	599	26.64	17	2.5	13.9	16	<0.1	1.1	0.3	346	0.07
STD OREAS45E	Standard			2.5	812.2	20.3	50	0.4	489.0	61.0	591	25.35	18	2.7	14.3	20	0.1	1.2	0.3	325	0.08
STD OREAS45E	Standard			2.4	820.1	22.0	52	0.3	497.6	63.0	585	25.87	18	2.9	15.1	18	<0.1	1.1	0.3	342	0.07
STD OREAS45E	Standard			2.6	781.4	20.9	54	0.3	520.5	67.7	621	26.30	18	2.8	15.5	20	<0.1	1.1	0.1	363	0.10
STD OXD108	Standard		409																		
STD OXD108	Standard		396																		
STD OXD108	Standard		392																		
STD OXD108	Standard		418																		
STD OXD108	Standard		397																		
STD OXI121	Standard		1785																		
STD OXI121	Standard		1827																		
STD OXI121	Standard		1836																		
STD OXI121 Expected			1834																		
STD OXD108 Expected			414																		
STD OREAS25A-4A Expected				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

BUREAU VERITAS MINERAL LABORATORIES Canada

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 09, 2016

QUALITY CONTROL REPORT VAN16001469.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS45E	Standard	0.039	10.8	1100	0.16	260	0.535	7.10	0.054	0.34	1.2	100.7	24	1.4	8.1	6.6	0.5	<1	97	8.2	<0.1
STD OREAS45E	Standard	0.033	12.5	1089	0.16	263	0.551	7.42	0.054	0.35	1.1	95.8	26	1.3	8.5	6.7	0.6	<1	97	7.4	<0.1
STD OREAS45E	Standard	0.034	12.0	1033	0.17	272	0.530	7.13	0.061	0.36	1.1	104.5	27	1.5	8.7	6.6	0.6	<1	97	6.5	<0.1
STD OREAS45E	Standard	0.040	12.6	1101	0.18	275	0.545	7.18	0.065	0.36	1.1	107.7	27	1.6	9.3	6.6	0.5	<1	97	7.8	<0.1
STD OREAS45E	Standard	0.035	12.5	1104	0.15	281	0.577	7.64	0.056	0.39	1.1	107.6	28	1.5	8.8	6.7	0.6	<1	104	7.8	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121 Expected																					
STD OXD108 Expected																					
STD OREAS25A-4A Expected		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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Report Date: September 09, 2016

QUALITY CONTROL REPORT VAN16001469.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E	Standard	22.8	3.1	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.4	3.3	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.3	3.3	0.14	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	24.2	3.2	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	24.5	3.3	0.07	<0.005	4	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121 Expected								
STD OXD108 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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QUALITY CONTROL REPORT VAN16001469.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.4	4.3	9.3	47	0.1	0.6	4.1	683	2.16	1	1.4	3.3	220	0.3	0.4	0.2	36	1.54
ROCK-VAN	Prep Blank		<2	1.2	4.3	16.5	52	0.1	0.6	4.8	755	2.28	2	1.4	3.4	242	0.2	0.4	<0.1	38	1.69

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QUALITY CONTROL REPORT VAN16001469.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.047	14.5	4	0.50	858	0.212	7.46	3.501	1.91	0.4	58.6	29	1.0	18.0	5.8	0.4	1	8	2.4	<0.1
ROCK-VAN	Prep Blank	0.049	16.1	5	0.54	930	0.229	7.89	3.678	2.01	0.4	62.4	31	0.9	19.1	6.3	0.5	1	9	2.7	<0.1

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QUALITY CONTROL REPORT VAN16001469.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
Prep Wash								
ROCK-VAN	Prep Blank	42.2	1.9	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	45.2	1.9	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: August 25, 2016
Report Date: September 08, 2016
Page: 1 of 5

CERTIFICATE OF ANALYSIS VAN16001494.1

CLIENT JOB INFORMATION

Project: Red Dog
Shipment ID:
P.O. Number
Number of Samples: 120

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	114	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA350-Au	120	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
MA200	120	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253380	Drill Core	2.10	4	1.8	557.2	2.4	74	0.2	38.6	18.8	685	5.64	1	0.3	0.6	564	0.1	0.1	<0.1	150	2.65
N253381	Drill Core	4.77	79	99.7	1216.1	5.0	35	0.4	17.8	32.3	146	7.02	11	0.8	1.5	59	0.3	0.2	1.2	183	0.74
N253382	Drill Core	7.06	56	12.2	610.6	4.5	20	0.3	16.7	32.8	79	6.11	9	0.4	0.8	39	0.2	0.2	1.6	220	0.61
N253383	Rock Pulp	0.06	201	395.1	1943.3	23.8	57	12.6	15.2	10.3	695	3.57	12	1.1	2.1	411	0.3	31.2	1.9	85	2.71
N253384	Drill Core	9.69	47	45.6	541.4	3.8	23	0.2	20.4	28.5	92	6.13	11	0.6	0.8	45	0.1	0.3	1.2	219	0.68
N253385	Drill Core	10.10	39	54.1	911.9	6.2	27	0.2	19.6	29.1	111	6.11	<1	0.8	1.5	51	0.3	0.2	1.0	188	0.66
N253386	Drill Core	8.57	36	47.8	641.3	4.9	21	0.2	18.6	31.1	85	5.64	10	0.7	0.9	48	0.2	0.2	1.3	178	0.71
N253387	Drill Core	8.60	27	33.4	770.2	5.2	19	0.2	19.5	25.4	87	4.71	4	0.6	0.7	60	0.2	0.1	0.7	200	0.86
N253388	Drill Core	6.83	40	29.8	660.4	5.4	21	0.7	21.0	22.8	82	5.21	12	0.5	0.5	52	0.2	0.3	1.2	246	0.78
N253389	Drill Core	9.45	41	16.7	594.5	5.7	23	0.2	23.5	28.4	98	6.15	12	0.5	0.8	51	0.2	0.3	0.9	215	0.84
N253390	Drill Core	6.43	83	22.4	2223.0	6.4	17	1.3	8.0	21.2	60	7.56	37	1.3	2.6	42	0.5	0.3	21.2	118	0.81
N253391	Drill Core	9.88	71	71.3	981.0	4.2	17	0.2	10.1	23.9	88	5.91	13	1.1	2.3	46	0.2	0.2	3.2	137	0.77
N253392	Drill Core	5.06	45	20.9	910.9	4.2	20	0.2	11.6	22.6	104	5.33	10	1.0	2.0	59	0.2	0.2	1.2	150	0.85
N253394	Drill Core	9.23	38	18.8	505.9	4.5	19	0.2	13.4	24.0	92	6.51	15	1.1	1.8	46	0.2	0.1	2.0	157	0.63
N253395	Drill Core	10.59	34	15.1	390.0	4.9	26	0.1	23.6	43.5	103	6.63	10	0.8	1.5	47	0.2	0.2	1.2	150	0.83
N253396	Drill Core	7.94	34	13.1	228.6	5.5	31	<0.1	27.8	39.8	108	6.51	6	0.7	0.9	52	<0.1	0.2	1.4	203	0.92
N253397	Drill Core	9.81	47	22.3	340.3	6.9	34	0.1	23.0	40.7	93	6.64	51	0.9	1.4	62	0.2	0.3	1.3	172	1.08
N253398	Rock	3.20	<2	<0.1	1.0	0.1	<1	<0.1	0.1	0.6	34	0.03	<1	1.4	<0.1	4859	<0.1	<0.1	<0.1	1	37.03
N253399	Drill Core	5.59	34	16.4	277.9	6.8	34	0.2	33.7	49.6	77	6.08	31	0.8	1.3	49	0.2	0.3	1.7	193	0.72
N254000	Drill Core	8.81	43	39.7	415.8	6.0	22	0.1	45.2	63.0	92	6.08	10	0.8	1.5	46	0.2	0.3	2.4	164	0.82
N254001	Drill Core	4.34	54	32.3	554.5	4.9	25	0.2	58.4	59.5	108	5.93	11	1.0	2.0	43	0.2	0.3	2.0	203	0.71
N254002	Drill Core	8.27	63	130.6	367.3	6.0	18	0.1	31.8	40.9	59	5.27	5	0.8	1.4	69	0.2	0.3	3.7	168	0.99
N254003	Drill Core	7.56	35	17.4	141.5	4.9	14	<0.1	13.2	27.1	34	4.57	4	1.3	2.8	73	0.1	0.2	3.5	135	0.87
N254004	Drill Core	9.58	45	13.9	195.7	5.1	21	<0.1	12.5	25.6	50	5.78	5	1.2	2.7	51	0.1	0.2	2.3	122	0.66
N254005	Drill Core	11.38	58	21.4	226.6	4.9	21	<0.1	30.5	42.4	78	6.18	6	1.0	2.3	49	<0.1	0.2	2.2	167	0.75
N254006	Drill Core	8.10	54	47.9	253.0	4.0	15	<0.1	28.8	42.5	57	5.80	12	0.6	1.2	46	0.2	0.2	2.8	169	0.78
N254007	Drill Core	7.98	35	6.8	137.5	3.8	22	<0.1	26.4	27.0	88	6.86	4	0.5	1.0	136	<0.1	0.2	1.2	203	1.20
N254008	Rock Pulp	0.06	593	816.4	5811.2	36.9	57	28.5	19.2	5.9	409	2.77	18	1.0	1.4	265	0.5	72.6	1.8	33	1.22
N254009	Drill Core	6.78	68	17.2	129.2	4.9	19	0.8	26.9	31.7	65	7.99	9	0.5	1.1	64	<0.1	0.3	1.7	183	2.20
N254010	Drill Core	8.91	12	6.3	23.5	3.5	10	<0.1	5.2	14.9	18	5.57	3	1.4	3.6	79	0.1	0.2	0.7	71	2.45

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253380	Drill Core	0.087	6.6	58	2.17	263	0.654	8.91	1.915	0.15	0.4	113.8	16	0.9	14.3	4.9	0.2	<1	17	7.9	<0.1
N253381	Drill Core	0.089	10.0	19	3.03	241	0.275	8.37	0.153	1.60	1.4	43.4	20	3.6	15.3	2.1	0.1	1	19	4.4	5.1
N253382	Drill Core	0.111	5.2	19	2.62	52	0.188	8.01	0.133	1.79	1.9	28.5	13	4.1	8.2	1.1	<0.1	<1	18	4.2	5.3
N253383	Rock Pulp	0.051	8.2	21	0.86	697	0.202	6.46	1.992	1.78	1.4	9.6	18	3.0	10.9	2.6	0.1	<1	9	7.9	0.3
N253384	Drill Core	0.100	5.7	25	2.82	52	0.204	8.29	0.164	1.72	1.2	32.7	14	2.9	8.3	1.0	<0.1	<1	19	4.5	5.1
N253385	Drill Core	0.084	9.5	31	3.22	153	0.212	8.79	0.161	1.65	0.4	41.0	19	5.2	10.6	1.4	<0.1	1	21	3.8	4.8
N253386	Drill Core	0.095	5.1	21	2.63	50	0.171	7.60	0.162	1.59	0.6	37.8	12	3.2	7.5	1.1	<0.1	1	18	3.5	4.8
N253387	Drill Core	0.086	5.0	38	2.63	75	0.221	8.00	0.221	1.36	0.6	29.7	12	2.4	8.5	1.2	<0.1	<1	19	4.5	3.5
N253388	Drill Core	0.098	4.6	47	2.26	56	0.244	7.48	0.167	1.77	3.7	22.3	11	3.1	7.4	1.1	<0.1	1	22	2.9	4.1
N253389	Drill Core	0.094	5.6	34	2.49	47	0.241	7.58	0.154	1.48	0.7	26.2	14	3.1	8.6	1.3	<0.1	<1	20	3.0	4.8
N253390	Drill Core	0.062	10.3	11	1.86	23	0.160	6.30	0.134	1.32	1.5	45.3	21	4.8	8.8	1.8	0.1	1	12	2.4	7.1
N253391	Drill Core	0.065	9.8	14	2.49	41	0.255	6.84	0.130	1.22	0.5	44.9	21	4.6	9.3	3.0	0.2	1	13	3.1	4.4
N253392	Drill Core	0.079	7.7	19	2.59	54	0.280	7.78	0.153	1.28	0.3	44.2	17	3.5	9.5	3.1	0.2	1	14	2.9	3.4
N253394	Drill Core	0.070	7.5	22	2.16	30	0.227	7.13	0.149	1.65	0.5	42.9	18	5.5	8.7	2.3	0.2	1	15	2.4	5.1
N253395	Drill Core	0.073	7.0	21	2.76	41	0.187	6.91	0.132	1.18	0.2	35.5	16	3.6	8.0	1.5	0.1	<1	14	3.3	5.0
N253396	Drill Core	0.098	5.3	36	2.66	39	0.279	7.15	0.167	1.52	0.4	22.0	13	6.2	8.6	1.8	0.1	<1	15	3.4	4.7
N253397	Drill Core	0.082	5.7	25	2.61	38	0.274	7.23	0.172	1.15	0.7	30.6	14	5.3	10.2	2.4	0.2	1	16	3.8	5.3
N253398	Rock	0.005	0.2	3	2.08	7	0.001	0.04	0.003	<0.01	<0.1	0.3	<1	<0.1	0.2	0.1	<0.1	<1	<1	0.1	<0.1
N253399	Drill Core	0.091	7.0	25	2.33	39	0.213	7.46	0.148	1.69	1.4	23.4	17	6.4	8.7	1.5	0.1	<1	16	3.3	5.1
N254000	Drill Core	0.088	9.3	18	2.96	49	0.300	7.45	0.127	1.19	0.5	28.5	21	6.0	9.7	2.7	0.2	<1	13	4.1	4.3
N254001	Drill Core	0.095	16.3	20	4.04	254	0.359	9.07	0.109	1.31	1.7	61.4	32	5.9	13.8	3.2	0.2	<1	19	5.1	2.9
N254002	Drill Core	0.091	8.2	16	2.54	72	0.291	8.23	0.179	1.19	0.5	31.5	19	6.8	8.6	2.6	0.2	1	16	4.2	3.9
N254003	Drill Core	0.054	8.2	10	1.60	56	0.205	7.16	0.180	1.19	0.3	51.8	17	4.8	9.3	2.3	0.2	<1	13	3.4	4.2
N254004	Drill Core	0.056	9.8	8	2.13	37	0.156	6.99	0.138	1.41	0.5	50.3	20	5.2	9.4	1.9	0.1	<1	12	3.5	4.5
N254005	Drill Core	0.090	13.3	13	3.66	254	0.282	8.92	0.115	1.29	0.4	63.3	26	5.5	11.9	2.6	0.2	<1	17	4.6	3.2
N254006	Drill Core	0.093	6.8	17	2.50	65	0.210	7.38	0.135	1.53	0.3	30.7	16	6.1	8.2	1.6	<0.1	<1	15	4.1	4.0
N254007	Drill Core	0.099	7.6	38	2.52	85	0.236	7.37	0.232	1.15	0.6	29.7	18	4.0	10.2	1.5	<0.1	<1	18	3.8	4.7
N254008	Rock Pulp	0.024	6.8	25	0.18	174	0.084	5.70	1.671	2.28	2.4	8.7	14	2.8	5.8	2.1	0.1	<1	2	7.7	1.0
N254009	Drill Core	0.086	9.7	22	1.94	44	0.181	7.12	0.155	1.29	7.1	24.2	22	5.7	10.1	1.0	<0.1	1	19	3.6	7.2
N254010	Drill Core	0.039	10.9	4	0.82	28	0.055	7.02	0.190	1.21	0.1	62.3	21	3.5	8.5	0.9	<0.1	<1	11	2.3	7.7

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253380	Drill Core	0.3	2.6	0.06	0.008	<1	<0.5	<0.5
N253381	Drill Core	45.3	1.2	0.45	0.853	17	0.6	0.9
N253382	Drill Core	18.3	0.8	0.21	0.114	12	0.8	1.2
N253383	Rock Pulp	33.9	0.5	0.06	0.401	<1	1.2	<0.5
N253384	Drill Core	19.3	0.9	0.24	0.489	12	0.5	1.0
N253385	Drill Core	39.3	1.1	0.32	0.682	11	0.6	0.9
N253386	Drill Core	14.6	1.0	0.26	0.573	14	0.7	0.9
N253387	Drill Core	11.6	0.8	0.28	0.680	12	<0.5	0.9
N253388	Drill Core	13.5	0.6	0.25	0.722	12	0.9	1.1
N253389	Drill Core	13.5	0.7	0.23	0.284	12	1.1	1.0
N253390	Drill Core	25.0	1.5	0.49	0.171	20	10.4	0.9
N253391	Drill Core	13.2	1.3	0.28	0.452	14	1.5	0.8
N253392	Drill Core	12.9	1.3	0.48	0.180	12	0.7	0.8
N253394	Drill Core	21.1	1.4	0.30	0.190	15	1.1	1.0
N253395	Drill Core	10.6	1.1	0.22	0.137	10	0.6	0.8
N253396	Drill Core	11.0	0.7	0.20	0.119	8	0.6	1.0
N253397	Drill Core	9.8	0.9	0.22	0.177	11	1.4	0.7
N253398	Rock	0.2	<0.1	<0.05	0.006	<1	4.0	<0.5
N253399	Drill Core	17.3	0.7	0.23	0.137	7	1.1	1.1
N254000	Drill Core	10.0	0.8	0.23	0.276	9	1.5	0.7
N254001	Drill Core	34.5	1.7	0.24	0.327	8	1.2	0.8
N254002	Drill Core	9.3	0.9	0.14	1.859	10	2.1	0.8
N254003	Drill Core	18.2	1.5	0.10	0.190	7	2.0	0.7
N254004	Drill Core	21.8	1.4	0.19	0.143	9	1.0	0.8
N254005	Drill Core	33.7	1.8	0.17	0.261	5	0.9	0.8
N254006	Drill Core	13.9	0.8	0.16	0.765	6	1.1	1.0
N254007	Drill Core	10.6	0.8	0.16	0.060	11	<0.5	0.9
N254008	Rock Pulp	47.9	0.3	<0.05	0.570	<1	3.5	<0.5
N254009	Drill Core	13.0	0.7	0.16	0.061	13	1.0	1.1
N254010	Drill Core	24.8	1.9	<0.05	0.048	12	0.5	0.9

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15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS VAN16001494.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N254011	Drill Core	10.22	13	14.4	53.1	2.8	15	<0.1	4.7	13.3	35	4.29	2	1.5	3.7	82	0.1	0.2	0.6	75	3.07
N254012	Drill Core	9.83	17	5.7	29.0	2.6	13	<0.1	6.2	13.9	34	4.49	10	1.3	3.1	69	<0.1	0.2	1.1	76	3.15
N254013	Drill Core	9.55	7	6.9	28.7	1.9	21	<0.1	3.8	12.6	79	3.53	1	1.4	3.4	85	<0.1	0.1	0.6	74	3.17
N254014	Drill Core	10.07	29	5.3	217.1	6.0	56	<0.1	15.4	23.7	203	5.63	5	0.6	1.3	115	0.2	0.2	0.8	171	2.75
N254015	Drill Core	9.96	28	6.5	216.3	6.7	50	<0.1	17.4	28.9	146	6.97	6	0.5	1.0	95	0.2	0.3	1.3	188	4.03
N254016	Rock	2.64	<2	<0.1	1.5	0.2	<1	<0.1	1.0	0.5	35	0.08	<1	1.8	<0.1	4811	<0.1	<0.1	<0.1	3	34.96
N254017	Drill Core	10.75	8	3.6	116.6	3.0	24	<0.1	6.4	17.0	55	4.49	<1	1.3	3.4	65	0.1	0.2	1.2	101	3.00
N254018	Drill Core	9.71	19	3.8	175.1	4.6	42	<0.1	12.4	20.9	107	5.17	3	0.7	1.7	75	0.2	0.2	1.4	159	2.71
N254019	Drill Core	4.90	20	5.4	105.2	3.4	31	0.4	20.0	32.3	66	5.14	1	0.5	1.7	138	<0.1	0.2	1.2	152	3.02
N254021	Drill Core	10.14	48	9.3	157.8	3.9	48	<0.1	31.3	38.1	83	6.69	8	0.5	1.3	187	<0.1	0.2	1.0	188	3.60
N254022	Drill Core	10.06	56	7.6	186.4	5.4	33	<0.1	45.8	35.3	79	6.61	11	0.4	0.8	157	<0.1	0.2	1.3	230	2.52
N254023	Drill Core	9.90	37	6.2	256.1	3.9	23	<0.1	39.7	42.6	83	7.53	6	0.3	0.8	112	<0.1	0.1	1.1	208	3.14
N254024	Drill Core	8.84	27	5.8	219.7	3.7	24	<0.1	37.7	46.7	76	6.36	<1	0.4	1.2	140	<0.1	<0.1	0.8	156	2.95
N254025	Drill Core	8.54	43	7.7	322.3	3.9	27	<0.1	34.4	33.1	97	8.09	7	0.4	0.8	180	<0.1	0.1	1.3	220	1.18
N254026	Drill Core	6.09	39	12.3	393.3	5.2	32	<0.1	34.8	50.0	145	8.27	7	0.4	0.8	82	0.1	0.2	1.4	205	0.74
N254027	Drill Core	7.53	39	67.6	594.4	3.8	26	<0.1	31.3	30.3	120	6.53	3	0.4	0.8	115	0.1	0.1	1.1	202	0.89
N254028	Drill Core	9.76	56	13.9	563.3	3.4	27	<0.1	27.8	22.9	122	5.38	2	0.4	0.8	165	0.1	0.2	0.6	219	1.08
N254029	Drill Core	9.81	46	25.4	593.5	4.4	30	<0.1	18.9	20.5	101	4.36	3	0.5	1.2	168	0.2	0.1	0.6	208	1.22
N254030	Drill Core	10.75	67	24.0	753.3	4.6	26	<0.1	28.2	34.9	86	6.06	4	0.5	1.5	378	0.2	0.1	0.7	232	2.45
N254031	Drill Core	10.14	59	18.2	712.7	4.9	29	<0.1	31.8	31.3	77	6.09	4	0.6	1.1	329	0.1	0.1	0.9	237	1.79
N254032	Drill Core	10.07	53	10.6	804.9	5.0	25	<0.1	33.3	37.7	59	7.26	3	0.5	1.3	197	0.1	0.1	1.1	194	2.06
N254033	Rock Pulp	0.06	197	408.9	1905.5	25.1	60	13.0	15.3	10.3	761	3.56	13	0.9	1.8	397	0.3	31.6	1.9	87	2.75
N254034	Drill Core	10.37	56	12.8	636.1	4.1	34	<0.1	27.6	29.7	79	6.94	5	0.6	1.2	337	<0.1	0.1	0.6	208	2.22
N254035	Drill Core	5.26	58	10.7	581.0	4.0	23	<0.1	27.2	24.6	60	6.91	3	0.5	1.3	368	<0.1	<0.1	0.8	227	1.84
N254037	Drill Core	9.81	87	16.9	568.9	5.0	20	<0.1	23.3	26.0	55	5.86	8	0.6	1.2	348	0.1	0.2	0.8	214	1.97
N254038	Drill Core	10.84	46	8.8	555.1	5.0	39	<0.1	27.6	24.2	77	7.72	4	0.6	1.2	394	0.2	0.1	0.6	229	2.72
N254039	Drill Core	9.45	38	6.0	344.7	5.7	39	<0.1	22.7	19.2	91	7.22	3	0.4	1.1	349	0.1	0.1	0.6	229	2.94
N254040	Drill Core	4.86	40	6.9	362.8	5.4	34	<0.1	25.6	26.1	110	7.49	3	0.4	1.1	355	0.2	0.1	0.8	228	2.26
N254041	Drill Core	4.54	63	13.6	527.6	5.7	26	0.7	27.1	31.9	88	6.47	4	0.4	1.0	315	0.2	0.2	0.8	230	2.02
N254042	Rock	1.86	<2	<0.1	1.5	0.1	<1	<0.1	0.2	0.5	29	0.03	<1	1.5	<0.1	4880	<0.1	<0.1	<0.1	2	36.30

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Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N254011	Drill Core	0.039	12.8	4	1.18	244	0.072	7.07	0.179	1.30	0.2	63.2	24	4.0	9.3	1.0	<0.1	<1	11	2.9	6.7
N254012	Drill Core	0.044	10.2	7	0.97	36	0.066	6.92	0.162	1.47	0.2	60.3	21	3.7	9.8	1.0	<0.1	<1	11	2.4	7.2
N254013	Drill Core	0.042	11.0	4	1.48	36	0.061	7.03	0.191	1.51	0.1	62.0	21	2.6	9.8	1.0	<0.1	<1	11	2.2	5.7
N254014	Drill Core	0.090	8.7	12	2.28	51	0.229	7.54	0.348	1.07	0.2	21.2	19	3.4	9.9	1.5	0.1	<1	16	3.9	5.8
N254015	Drill Core	0.086	11.0	17	2.19	54	0.287	7.34	0.190	0.95	0.3	15.2	23	4.9	10.3	2.2	0.1	1	18	4.1	9.4
N254016	Rock	0.005	0.4	2	2.00	8	0.005	0.12	0.005	0.01	<0.1	1.0	<1	<0.1	0.3	0.1	<0.1	<1	<1	0.5	<0.1
N254017	Drill Core	0.052	11.2	6	1.67	73	0.110	7.47	0.142	1.36	0.2	51.4	21	4.0	9.2	1.1	<0.1	1	13	4.1	6.7
N254018	Drill Core	0.082	10.2	12	2.39	42	0.196	8.06	0.171	1.14	0.1	27.9	22	3.9	9.7	1.3	<0.1	<1	17	5.3	6.6
N254019	Drill Core	0.097	10.8	12	2.35	60	0.132	8.35	0.291	1.06	2.8	23.5	23	5.0	9.9	1.0	<0.1	<1	16	3.3	5.5
N254021	Drill Core	0.098	7.9	28	2.19	89	0.191	8.19	0.372	0.92	0.2	24.7	19	6.7	8.9	1.2	<0.1	<1	18	3.5	5.9
N254022	Drill Core	0.099	6.5	52	2.55	101	0.162	7.79	0.313	1.24	<0.1	16.9	15	7.3	8.1	0.8	<0.1	<1	22	3.7	5.4
N254023	Drill Core	0.095	7.3	43	2.68	34	0.132	7.39	0.225	1.16	<0.1	15.9	17	3.4	10.0	0.6	<0.1	<1	20	3.8	7.4
N254024	Drill Core	0.088	8.6	18	2.19	46	0.116	7.45	0.288	1.08	0.2	20.0	19	3.7	9.7	0.9	<0.1	<1	16	4.8	6.7
N254025	Drill Core	0.090	7.0	49	2.55	81	0.166	7.74	0.307	1.23	0.2	15.6	16	4.8	9.3	0.8	<0.1	<1	22	4.9	5.4
N254026	Drill Core	0.092	5.2	31	2.42	31	0.164	7.16	0.258	1.62	0.4	17.3	13	5.8	7.4	0.9	<0.1	1	20	5.7	8.0
N254027	Drill Core	0.101	5.4	25	2.63	51	0.176	7.59	0.303	1.33	0.3	20.1	13	3.9	7.4	1.1	<0.1	<1	17	6.1	6.0
N254028	Drill Core	0.102	6.3	34	2.85	147	0.195	7.94	0.319	1.31	0.2	19.9	14	4.1	7.7	1.2	<0.1	1	20	7.1	3.6
N254029	Drill Core	0.101	7.8	40	2.44	118	0.224	8.25	0.454	1.63	0.2	20.1	17	4.2	8.4	1.6	<0.1	<1	21	5.5	3.0
N254030	Drill Core	0.100	12.8	38	2.63	280	0.251	9.55	0.773	1.25	0.2	15.2	25	3.6	14.7	1.7	<0.1	<1	24	6.2	2.9
N254031	Drill Core	0.101	8.3	38	2.85	235	0.231	8.46	0.537	1.39	0.2	20.1	18	4.6	11.7	1.5	<0.1	<1	22	7.3	3.2
N254032	Drill Core	0.091	9.3	24	2.18	65	0.172	7.97	0.411	1.41	0.1	21.3	20	3.5	12.7	1.1	<0.1	<1	19	5.8	5.5
N254033	Rock Pulp	0.049	9.1	22	0.85	693	0.206	7.05	1.935	1.74	1.6	9.2	20	2.9	11.0	2.6	0.2	<1	9	7.7	0.3
N254034	Drill Core	0.097	10.7	39	2.55	187	0.217	8.43	0.929	0.82	0.1	19.2	23	3.1	17.0	1.6	<0.1	<1	21	6.9	2.2
N254035	Drill Core	0.102	9.2	35	2.65	290	0.205	8.57	0.806	1.30	0.2	13.9	18	3.8	14.1	1.4	<0.1	<1	21	6.4	3.3
N254037	Drill Core	0.111	8.7	32	2.35	88	0.186	8.67	0.706	1.48	0.2	19.5	18	4.3	13.1	1.2	<0.1	1	20	4.6	4.3
N254038	Drill Core	0.098	8.7	45	2.44	195	0.308	8.56	1.343	0.60	0.2	16.4	19	3.5	16.2	2.4	0.1	1	21	5.6	1.9
N254039	Drill Core	0.098	8.1	47	2.52	141	0.345	8.60	1.388	0.46	0.2	12.4	16	3.6	16.5	2.9	0.2	<1	20	5.7	1.4
N254040	Drill Core	0.102	8.0	39	2.80	209	0.268	8.53	1.212	0.74	0.3	11.5	16	3.8	13.2	1.9	<0.1	<1	21	6.3	3.3
N254041	Drill Core	0.094	6.3	35	2.82	255	0.237	7.89	0.935	1.14	2.7	12.5	13	3.4	11.6	1.4	<0.1	<1	19	8.3	3.5
N254042	Rock	0.004	0.1	2	1.96	7	0.001	0.03	0.004	<0.01	<0.1	0.3	<1	<0.1	0.3	0.2	<0.1	<1	<1	0.3	<0.1

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N254011	Drill Core	32.9	2.0	0.08	0.177	9	<0.5	0.9
N254012	Drill Core	26.7	1.7	0.10	0.028	8	<0.5	1.0
N254013	Drill Core	28.6	1.8	0.13	0.040	7	<0.5	0.9
N254014	Drill Core	13.3	0.6	0.21	0.015	7	0.7	1.0
N254015	Drill Core	17.9	0.6	0.20	0.024	11	1.7	0.9
N254016	Rock	0.3	<0.1	<0.05	<0.005	<1	4.3	<0.5
N254017	Drill Core	33.7	1.6	0.17	0.007	10	0.8	1.0
N254018	Drill Core	18.1	0.9	0.21	0.007	12	1.1	1.0
N254019	Drill Core	16.4	0.7	0.11	0.013	8	0.5	0.9
N254021	Drill Core	7.9	0.8	0.12	0.046	9	<0.5	0.8
N254022	Drill Core	10.8	0.5	0.12	0.026	7	0.5	1.2
N254023	Drill Core	11.3	0.5	0.13	0.032	13	<0.5	0.9
N254024	Drill Core	11.4	0.6	0.11	0.036	12	<0.5	0.9
N254025	Drill Core	14.8	0.5	0.14	0.054	12	0.6	1.0
N254026	Drill Core	16.6	0.5	0.16	0.109	16	1.4	1.2
N254027	Drill Core	12.0	0.5	0.12	1.887	9	0.8	0.9
N254028	Drill Core	11.7	0.6	0.13	0.131	6	0.5	1.0
N254029	Drill Core	26.9	0.6	0.19	0.225	6	0.5	1.0
N254030	Drill Core	34.2	0.5	0.16	0.174	7	<0.5	0.8
N254031	Drill Core	15.6	0.6	0.13	0.132	7	0.6	0.9
N254032	Drill Core	23.3	0.6	0.15	0.104	11	0.6	0.9
N254033	Rock Pulp	34.3	0.5	<0.05	0.376	<1	1.1	<0.5
N254034	Drill Core	14.0	0.6	0.15	0.128	4	<0.5	<0.5
N254035	Drill Core	22.5	0.4	0.18	0.140	5	<0.5	0.8
N254037	Drill Core	27.9	0.6	0.16	0.150	6	0.6	0.8
N254038	Drill Core	6.3	0.5	0.16	0.050	4	<0.5	<0.5
N254039	Drill Core	4.9	0.4	0.13	0.041	3	<0.5	<0.5
N254040	Drill Core	8.5	0.3	0.22	0.057	7	<0.5	<0.5
N254041	Drill Core	10.0	0.4	0.17	0.111	6	<0.5	0.6
N254042	Rock	<0.1	<0.1	<0.05	<0.005	<1	2.0	<0.5

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Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N254043	Drill Core	2.67	38	19.6	385.5	6.5	21	1.4	29.1	31.7	50	5.57	3	0.5	1.2	128	0.2	0.2	1.0	212	0.94
N254044	Drill Core	4.16	54	25.8	563.2	7.1	29	0.1	26.6	35.1	71	6.38	4	0.5	1.1	111	0.2	0.2	1.0	204	1.37
N254045	Drill Core	4.84	60	15.7	521.6	9.6	39	<0.1	29.0	29.4	130	7.93	2	0.6	1.1	206	0.2	0.2	0.7	222	1.73
N254046	Drill Core	4.64	50	17.5	342.6	11.6	35	<0.1	23.6	25.1	139	6.63	2	0.5	1.2	266	0.3	0.2	0.7	213	2.26
N254047	Drill Core	4.37	26	25.8	277.9	20.1	58	<0.1	24.7	25.0	186	6.92	2	0.6	1.3	274	0.2	0.2	0.8	213	2.09
N254048	Drill Core	5.70	41	25.2	350.2	15.8	72	<0.1	28.5	28.8	120	6.72	2	0.8	1.2	302	0.3	0.1	0.8	201	1.92
N254049	Drill Core	4.17	37	32.7	458.1	43.5	88	<0.1	28.0	36.9	114	6.35	2	0.7	1.2	96	0.7	0.1	1.2	237	1.42
N254050	Rock Pulp	0.06	607	795.7	5815.7	34.3	57	27.9	19.6	6.0	409	2.80	17	1.1	1.6	273	0.7	73.0	1.7	31	1.24
N254051	Drill Core	5.17	29	27.0	359.9	11.4	45	<0.1	25.0	32.4	108	5.96	<1	0.7	1.0	146	0.2	0.2	0.8	216	1.33
N254052	Drill Core	3.40	41	35.3	580.1	14.3	90	0.1	29.9	45.5	143	7.73	2	0.8	0.9	215	0.3	0.1	0.9	206	2.19
N254053	Drill Core	7.24	52	23.9	430.3	13.5	90	0.1	28.6	41.5	177	8.91	6	0.8	1.1	220	0.5	0.2	0.8	194	2.22
N254054	Drill Core	3.45	24	21.4	348.7	9.4	77	<0.1	21.6	27.4	163	6.84	3	0.6	1.5	247	0.5	0.1	0.8	208	1.99
N254055	Drill Core	3.51	21	22.8	309.7	9.5	51	3.4	24.2	30.6	135	6.18	1	0.6	1.5	163	0.2	0.1	0.8	185	1.48
N254056	Drill Core	6.68	28	23.9	653.2	5.2	74	121.9	55.1	31.9	127	6.62	2	0.5	1.0	122	0.2	0.2	0.8	180	1.15
N254057	Drill Core	5.93	57	25.7	612.0	6.1	36	0.2	34.5	41.5	105	9.65	8	0.5	1.1	125	0.1	0.2	1.6	239	1.28
N254058	Rock	1.78	<2	0.1	3.4	0.2	1	0.3	0.3	0.6	29	0.04	1	1.6	<0.1	4536	<0.1	<0.1	<0.1	1	35.33
N254059	Drill Core	4.72	21	17.3	218.7	4.5	23	0.2	20.9	27.2	71	7.18	2	0.8	1.8	57	<0.1	0.2	1.2	148	1.27
N254060	Drill Core	6.37	20	22.6	234.9	4.2	28	4.4	15.8	22.1	83	5.63	5	0.8	2.0	70	<0.1	0.1	1.0	128	0.74
N254061	Drill Core	5.96	13	15.6	83.6	6.7	26	<0.1	7.8	19.5	76	5.77	<1	0.9	2.1	52	0.1	0.2	0.7	116	0.51
N254062	Drill Core	5.62	26	21.7	291.4	5.4	35	0.2	27.2	35.5	103	10.49	<1	0.8	1.6	65	0.1	0.2	0.9	152	1.38
N254063	Drill Core	2.61	45	42.8	596.4	7.7	67	0.2	26.2	26.2	337	13.26	7	0.6	1.2	269	0.3	0.2	1.2	141	5.33
N254065	Drill Core	6.28	46	35.9	620.6	7.4	95	0.3	34.5	33.7	276	9.95	2	0.7	1.2	496	0.3	<0.1	0.9	238	3.11
N254066	Drill Core	6.23	16	22.2	246.5	13.6	63	<0.1	21.9	21.8	194	6.29	<1	0.7	1.3	243	0.3	0.1	0.7	211	1.38
N254067	Drill Core	5.49	22	8.4	264.5	10.1	54	<0.1	20.1	24.1	178	5.64	<1	0.5	1.1	273	0.3	<0.1	0.9	194	1.57
N254068	Drill Core	6.15	37	18.2	226.9	8.2	94	<0.1	30.0	34.0	338	7.75	2	0.5	1.2	380	0.1	0.1	0.5	222	1.81
N254069	Drill Core	6.62	29	16.0	297.7	15.1	238	0.1	26.0	35.1	324	7.45	3	0.5	0.9	77	1.4	0.2	2.6	221	1.04
N254070	Drill Core	6.16	44	22.7	403.9	8.5	106	0.1	26.8	38.5	366	7.57	3	0.5	1.3	354	0.3	0.2	0.6	219	2.74
N254071	Drill Core	5.90	28	20.4	238.4	11.8	96	0.2	27.0	28.1	327	9.47	2	0.5	1.2	391	0.3	0.2	1.0	199	2.36
N254072	Drill Core	5.84	28	34.7	214.9	9.1	104	0.1	26.5	28.8	346	8.30	2	0.7	1.2	670	0.3	0.2	0.6	202	2.70
N254073	Rock Pulp	<0.01	204	404.7	1991.1	27.3	62	13.5	16.5	11.2	730	3.67	14	0.9	1.8	414	0.3	32.5	2.0	87	2.84

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N254043	Drill Core	0.105	8.3	29	1.52	60	0.167	8.57	0.295	2.32	10.7	16.6	18	6.3	11.5	1.0	<0.1	<1	21	5.7	4.9
N254044	Drill Core	0.095	7.8	29	1.93	41	0.230	8.00	0.254	1.66	0.8	16.4	17	4.2	9.7	1.3	<0.1	<1	20	7.4	5.5
N254045	Drill Core	0.098	9.6	37	2.73	119	0.277	8.37	0.614	1.18	0.4	16.0	20	4.0	11.0	2.0	0.1	<1	21	10.2	3.8
N254046	Drill Core	0.097	8.9	34	2.42	54	0.286	8.29	0.775	1.30	0.4	14.9	19	3.7	12.3	2.2	0.1	1	20	9.8	4.4
N254047	Drill Core	0.099	9.1	34	2.64	68	0.285	8.60	0.777	1.26	0.4	18.5	20	3.2	12.6	2.3	0.1	<1	20	8.7	4.6
N254048	Drill Core	0.094	11.1	33	2.35	88	0.214	8.44	0.766	1.32	0.3	25.9	23	4.1	13.1	1.5	<0.1	<1	20	8.3	4.5
N254049	Drill Core	0.095	9.3	36	2.67	47	0.244	8.39	0.574	1.71	0.3	28.0	20	6.2	12.8	1.4	<0.1	<1	23	7.8	4.9
N254050	Rock Pulp	0.024	8.1	25	0.18	111	0.083	5.93	1.625	2.21	2.3	8.9	16	2.9	6.0	2.0	0.1	<1	2	7.8	1.0
N254051	Drill Core	0.096	7.0	36	2.34	52	0.236	7.85	0.705	1.67	0.3	28.9	15	5.3	11.0	1.5	<0.1	<1	20	7.4	3.9
N254052	Drill Core	0.088	8.7	37	2.48	131	0.263	7.68	0.852	1.12	0.4	30.5	18	7.3	13.3	1.8	0.1	1	17	10.5	3.9
N254053	Drill Core	0.082	9.9	35	1.84	123	0.196	7.96	0.655	1.14	0.4	26.3	21	5.7	14.4	1.4	<0.1	<1	15	9.7	4.0
N254054	Drill Core	0.084	11.2	34	2.55	106	0.267	7.64	0.842	1.13	0.3	24.1	23	5.2	14.4	2.4	0.1	<1	18	11.2	3.2
N254055	Drill Core	0.081	9.6	30	2.35	43	0.227	8.18	0.731	1.71	26.3	24.8	21	4.6	13.8	1.8	0.1	<1	17	8.9	4.9
N254056	Drill Core	0.083	7.7	42	2.09	44	0.158	7.84	0.525	1.76	>200	19.8	17	6.7	12.9	1.0	<0.1	<1	18	7.8	4.9
N254057	Drill Core	0.092	8.6	25	1.84	26	0.201	7.47	1.025	1.72	1.9	19.5	20	7.4	14.4	1.3	<0.1	<1	19	6.5	7.7
N254058	Rock	0.004	0.3	3	2.06	7	0.002	0.05	0.005	<0.01	4.4	0.4	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.3	<0.1
N254059	Drill Core	0.068	6.2	14	1.34	29	0.091	7.43	0.318	2.41	1.0	26.7	15	5.1	11.5	0.7	<0.1	1	15	6.4	7.4
N254060	Drill Core	0.067	7.0	17	1.64	36	0.104	6.95	0.339	2.28	33.2	26.2	16	4.2	10.8	0.9	<0.1	1	12	7.3	5.5
N254061	Drill Core	0.049	7.5	8	1.40	34	0.093	6.96	0.264	2.57	0.7	34.1	17	4.4	10.6	1.0	<0.1	<1	13	5.8	5.6
N254062	Drill Core	0.067	6.8	17	1.43	28	0.169	6.60	0.410	2.14	1.1	24.6	16	5.4	12.3	1.8	<0.1	<1	13	5.9	>10
N254063	Drill Core	0.060	19.0	21	0.93	30	0.177	5.73	0.712	0.93	1.2	18.5	38	40.1	35.0	1.6	<0.1	<1	17	4.8	8.8
N254065	Drill Core	0.075	11.3	38	1.14	57	0.252	7.78	1.985	0.63	1.1	21.2	27	20.6	19.6	2.0	0.1	<1	26	5.9	6.4
N254066	Drill Core	0.080	10.0	44	1.97	38	0.202	7.93	1.181	1.59	0.6	24.2	23	4.3	13.1	1.4	<0.1	<1	21	6.1	5.4
N254067	Drill Core	0.085	8.6	43	1.80	37	0.165	8.46	1.558	1.74	0.5	19.0	19	4.1	12.9	0.8	<0.1	<1	21	5.2	4.9
N254068	Drill Core	0.093	10.2	38	2.56	196	0.273	7.97	1.603	1.04	0.4	18.6	21	4.3	16.4	1.9	<0.1	<1	19	8.6	3.3
N254069	Drill Core	0.091	6.1	38	2.82	34	0.322	7.54	0.428	2.47	0.4	16.9	14	4.9	11.9	2.4	0.1	1	19	7.2	6.7
N254070	Drill Core	0.100	10.9	44	2.48	298	0.391	8.78	1.442	1.14	0.5	16.4	23	4.8	16.3	3.1	0.2	<1	22	8.2	3.1
N254071	Drill Core	0.084	8.7	38	2.32	147	0.346	8.06	1.667	0.75	0.4	16.5	22	6.5	19.5	3.0	0.1	<1	19	8.0	4.6
N254072	Drill Core	0.086	10.3	46	2.58	361	0.394	8.49	1.732	0.87	0.5	24.5	27	8.5	24.3	3.6	0.2	<1	21	8.3	2.6
N254073	Rock Pulp	0.049	8.5	25	0.88	706	0.208	7.22	2.289	1.81	1.7	10.0	18	3.0	10.7	2.7	0.1	<1	9	8.0	0.3

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N254043	Drill Core	41.5	0.5	0.19	0.158	9	0.6	1.3
N254044	Drill Core	24.5	0.5	0.21	0.177	8	0.6	1.0
N254045	Drill Core	19.2	0.5	0.18	0.131	7	<0.5	0.7
N254046	Drill Core	19.9	0.5	0.15	0.093	8	0.8	0.6
N254047	Drill Core	21.4	0.6	0.12	0.117	8	0.5	0.8
N254048	Drill Core	23.5	0.8	0.12	0.105	10	<0.5	0.8
N254049	Drill Core	31.1	0.8	0.16	0.152	12	0.7	1.1
N254050	Rock Pulp	46.1	0.4	<0.05	0.586	<1	3.4	<0.5
N254051	Drill Core	23.5	0.8	0.13	0.133	11	<0.5	1.2
N254052	Drill Core	12.9	0.8	0.22	0.186	11	<0.5	0.7
N254053	Drill Core	16.5	0.8	0.24	0.105	11	0.5	0.6
N254054	Drill Core	14.5	0.7	0.17	0.110	7	<0.5	0.6
N254055	Drill Core	25.7	0.7	0.19	0.126	13	<0.5	1.1
N254056	Drill Core	30.5	0.6	0.27	0.119	11	<0.5	1.1
N254057	Drill Core	30.8	0.6	0.25	0.147	17	0.9	1.0
N254058	Rock	0.2	<0.1	<0.05	<0.005	<1	2.1	<0.5
N254059	Drill Core	43.4	0.8	0.12	0.127	15	1.1	1.4
N254060	Drill Core	38.4	0.8	0.12	0.139	13	0.5	1.3
N254061	Drill Core	54.0	1.1	0.10	0.094	16	0.5	1.4
N254062	Drill Core	36.5	0.8	0.16	0.105	26	0.6	1.1
N254063	Drill Core	26.7	0.5	0.92	0.117	17	1.7	0.6
N254065	Drill Core	14.0	0.6	0.78	0.138	11	0.7	<0.5
N254066	Drill Core	32.7	0.7	0.18	0.104	10	0.9	1.0
N254067	Drill Core	39.7	0.6	0.19	0.060	11	1.2	0.9
N254068	Drill Core	18.8	0.6	0.26	0.181	6	<0.5	0.6
N254069	Drill Core	34.1	0.4	0.56	0.127	10	1.7	1.3
N254070	Drill Core	17.9	0.6	0.40	0.149	5	<0.5	0.6
N254071	Drill Core	14.5	0.5	0.45	0.189	10	1.4	<0.5
N254072	Drill Core	13.6	0.8	0.47	0.329	7	0.8	<0.5
N254073	Rock Pulp	33.6	0.6	<0.05	0.393	<1	1.1	<0.5

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Client: **Northisle Copper and Gold Inc.**
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Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N254074	Drill Core	6.36	51	21.1	524.4	12.2	83	0.2	38.8	52.5	299	13.25	3	0.6	1.0	224	0.2	0.3	0.8	236	1.90
N254075	Drill Core	5.78	24	19.4	386.3	9.9	74	<0.1	33.9	32.4	189	10.32	4	0.6	1.2	312	0.5	0.1	0.5	226	1.99
N254076	Drill Core	5.14	55	24.0	455.4	13.5	77	0.1	37.7	37.9	177	10.48	3	0.7	1.4	477	1.0	0.2	0.5	224	2.58
N254077	Rock	1.73	<2	0.1	1.3	0.2	7	<0.1	0.2	0.5	30	0.04	<1	1.6	<0.1	4654	<0.1	<0.1	<0.1	1	36.94
N254078	Drill Core	6.52	23	13.3	206.2	13.9	113	0.3	25.7	28.9	331	7.66	4	0.6	1.1	198	0.5	0.2	0.5	215	2.26
N254079	Drill Core	5.75	21	9.7	219.2	23.9	309	0.2	27.7	26.1	397	7.35	4	0.5	1.1	165	2.3	0.2	1.0	252	1.81
N254080	Drill Core	6.11	21	14.4	187.7	11.5	104	0.2	27.8	26.2	222	7.19	1	0.5	0.9	116	0.5	0.2	1.2	219	0.82
N254081	Drill Core	6.00	24	6.4	231.8	6.1	80	<0.1	30.4	22.7	300	7.83	2	0.4	1.0	509	0.2	0.1	0.4	224	1.98
N254082	Drill Core	5.35	19	14.2	292.7	5.8	65	<0.1	28.0	28.0	254	7.70	2	0.3	1.0	499	0.1	0.1	0.4	239	1.98
N254083	Drill Core	5.92	19	20.7	259.7	8.9	93	<0.1	25.8	25.5	286	6.97	<1	0.3	0.9	229	0.3	0.1	0.6	209	0.97
N254084	Drill Core	2.72	26	6.3	308.1	7.5	110	<0.1	31.7	30.6	338	7.44	1	0.4	1.2	596	0.2	<0.1	0.6	227	2.12
N254086	Drill Core	5.55	26	10.1	329.3	9.5	86	<0.1	33.1	34.6	273	7.10	2	0.4	1.2	744	0.3	0.1	0.3	224	2.71
N254087	Drill Core	6.29	26	8.4	209.5	7.9	56	<0.1	26.3	22.8	216	5.81	2	0.4	1.0	563	0.2	0.1	0.4	232	1.48
N254088	Drill Core	6.23	28	5.1	288.3	6.5	52	<0.1	28.5	38.8	206	7.29	<1	0.4	1.1	557	<0.1	0.1	0.5	216	1.82
N254089	Drill Core	5.10	24	9.5	283.4	9.8	49	<0.1	24.7	29.8	214	6.93	<1	0.4	0.9	390	<0.1	0.1	0.6	217	1.43
N254090	Drill Core	6.41	33	12.5	265.0	4.5	48	<0.1	24.4	24.4	182	6.81	<1	0.4	0.8	234	<0.1	0.1	0.5	225	0.92
N254091	Drill Core	6.02	31	7.8	184.0	5.5	59	<0.1	25.4	25.5	230	6.66	<1	0.5	0.7	108	<0.1	0.2	0.5	227	0.55
N254092	Rock	1.95	<2	0.1	1.1	0.1	<1	<0.1	<0.1	0.7	31	0.05	<1	1.5	<0.1	4398	<0.1	<0.1	<0.1	<1	36.76
N254093	Drill Core	6.48	22	5.6	314.5	9.6	62	0.2	27.6	25.3	193	6.37	<1	0.5	0.7	102	<0.1	0.3	1.2	231	0.64
N254094	Drill Core	5.23	27	9.3	210.8	6.6	53	0.1	26.5	29.8	135	6.40	2	0.4	0.7	81	<0.1	0.2	0.9	212	0.57
N254095	Rock Pulp	0.06	574	824.9	5784.1	36.5	57	28.4	18.2	5.6	397	2.83	17	1.1	1.6	273	1.3	74.7	1.9	32	1.24
N254096	Drill Core	4.89	26	3.7	172.6	5.6	54	0.1	23.8	21.6	189	6.67	1	0.4	0.6	90	<0.1	0.2	0.9	225	0.48
N253325	Drill Core	4.75	537	56.0	2882.0	3.1	32	0.5	2.6	14.0	192	8.31	<1	0.5	2.3	77	0.1	0.1	<0.1	43	2.16
N253350	Drill Core	4.95	997	36.8	3133.8	2.1	32	0.3	3.3	20.7	200	7.80	<1	0.3	1.9	36	<0.1	<0.1	0.2	46	0.49
N253374	Drill Core	4.21	755	130.1	6110.3	2.3	17	0.8	7.8	34.0	161	4.15	<1	1.1	3.1	143	0.1	<0.1	0.1	112	1.19
N253393	Drill Core	5.21	47	18.0	892.4	4.1	19	0.2	10.6	18.8	95	5.02	8	1.1	2.4	60	0.1	0.1	1.1	132	0.82
N254020	Drill Core	4.75	22	6.7	122.0	3.3	30	<0.1	19.3	28.0	68	5.24	3	0.5	1.7	139	<0.1	0.2	1.1	152	3.01
N254036	Drill Core	5.28	54	10.3	582.6	3.8	25	<0.1	26.1	25.0	59	6.99	3	0.5	1.1	354	0.1	<0.1	0.7	231	1.71
N254064	Drill Core	2.55	41	54.6	478.1	7.0	63	0.2	27.1	29.9	362	12.75	6	0.6	1.2	297	0.5	0.1	1.1	137	5.69
N254085	Drill Core	3.21	30	9.1	280.9	7.9	132	0.1	32.8	33.5	315	7.74	<1	0.4	1.2	654	0.9	<0.1	0.8	224	2.04

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CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N254074	Drill Core	0.090	9.4	45	2.83	83	0.364	7.81	1.170	1.08	0.4	16.8	21	6.6	18.4	3.0	0.2	<1	19	10.9	4.4
N254075	Drill Core	0.094	10.9	45	2.35	286	0.346	8.65	1.967	1.00	0.4	18.0	24	5.3	17.4	2.6	0.1	1	22	7.8	2.7
N254076	Drill Core	0.091	12.4	47	1.40	268	0.339	9.09	2.481	1.11	0.4	23.8	28	6.2	18.4	2.6	0.2	<1	22	5.4	2.2
N254077	Rock	0.004	0.4	2	1.80	6	0.002	0.03	0.006	<0.01	0.3	0.3	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.3	<0.1
N254078	Drill Core	0.104	7.8	34	2.41	67	0.371	7.78	0.912	1.41	0.5	15.5	18	5.3	16.4	2.9	0.2	<1	19	7.4	5.2
N254079	Drill Core	0.103	7.5	40	3.01	83	0.414	8.28	0.595	1.71	0.5	15.0	17	4.6	15.7	3.3	0.2	1	21	10.0	4.5
N254080	Drill Core	0.097	4.9	32	2.55	37	0.209	7.25	0.447	2.28	0.5	22.1	13	3.4	9.6	1.4	<0.1	<1	20	8.3	6.0
N254081	Drill Core	0.102	6.9	39	3.26	208	0.269	8.27	1.148	0.79	0.2	18.0	16	3.3	13.1	2.0	0.1	<1	21	9.4	3.8
N254082	Drill Core	0.087	7.0	38	3.02	204	0.221	8.31	1.518	0.66	0.2	14.1	16	3.0	11.5	1.5	<0.1	<1	20	7.7	3.5
N254083	Drill Core	0.103	6.1	39	2.55	47	0.216	7.88	0.920	1.22	0.3	13.0	15	3.2	8.5	1.5	<0.1	<1	19	6.7	5.2
N254084	Drill Core	0.102	9.9	44	2.63	196	0.201	8.64	1.353	0.66	0.2	16.2	21	2.4	11.8	1.3	<0.1	1	22	6.7	3.2
N254086	Drill Core	0.104	7.6	44	2.73	228	0.318	8.69	1.296	0.74	0.2	16.1	18	2.9	12.2	2.4	0.1	1	21	6.9	3.5
N254087	Drill Core	0.112	7.4	45	2.91	125	0.286	8.33	1.083	1.27	0.2	18.5	17	4.0	9.4	1.9	0.1	1	20	7.0	4.0
N254088	Drill Core	0.098	8.4	31	2.49	161	0.249	7.80	1.003	0.97	0.1	21.7	19	5.3	8.8	1.8	0.1	<1	20	6.2	4.6
N254089	Drill Core	0.111	6.2	34	2.56	98	0.228	7.73	0.775	1.32	<0.1	23.7	15	10.9	7.4	1.4	<0.1	1	18	6.6	4.9
N254090	Drill Core	0.104	5.2	37	2.54	94	0.181	7.37	0.568	1.41	0.1	24.1	13	3.8	6.2	1.2	<0.1	<1	19	6.4	3.9
N254091	Drill Core	0.115	4.8	37	2.23	46	0.146	7.72	0.415	1.84	0.2	28.4	13	4.2	5.1	0.9	<0.1	<1	21	5.6	4.3
N254092	Rock	0.003	0.2	2	1.85	8	0.002	0.04	0.004	<0.01	<0.1	0.4	<1	<0.1	0.3	<0.1	<0.1	<1	<1	0.1	<0.1
N254093	Drill Core	0.106	3.4	33	2.61	41	0.197	7.66	0.379	1.56	0.8	27.8	9	4.2	5.1	1.3	<0.1	1	20	7.0	6.2
N254094	Drill Core	0.100	3.8	29	2.27	32	0.157	7.33	0.338	1.50	0.3	24.9	10	4.7	5.5	1.1	<0.1	<1	19	7.8	6.4
N254095	Rock Pulp	0.027	7.3	26	0.20	140	0.083	5.71	1.874	2.23	2.5	9.0	16	3.0	5.5	2.1	0.1	1	2	7.9	1.0
N254096	Drill Core	0.107	3.2	34	2.70	34	0.175	7.41	0.378	1.44	0.6	24.8	8	4.1	4.3	1.2	<0.1	<1	19	7.6	5.9
N253325	Drill Core	0.020	5.2	4	0.97	73	0.087	3.22	0.859	0.43	0.4	9.7	10	2.7	6.9	2.5	0.2	<1	6	7.5	1.6
N253350	Drill Core	0.008	3.6	5	0.99	124	0.068	3.15	0.403	0.61	0.5	7.7	7	3.0	5.3	1.7	0.1	<1	5	6.0	0.4
N253374	Drill Core	0.033	9.4	9	0.65	109	0.155	5.89	1.621	1.44	0.6	16.8	20	5.0	12.0	3.2	0.2	<1	20	6.0	1.7
N253393	Drill Core	0.072	8.4	17	2.58	70	0.243	7.42	0.168	1.27	0.3	47.5	18	3.0	9.2	2.8	0.2	1	13	3.0	3.1
N254020	Drill Core	0.096	9.5	13	2.30	59	0.133	8.28	0.305	1.12	0.7	25.1	21	4.9	9.3	1.0	<0.1	<1	16	3.4	5.8
N254036	Drill Core	0.099	6.7	36	2.62	239	0.202	8.16	0.822	1.29	0.2	14.6	15	4.1	11.4	1.3	<0.1	1	19	6.4	3.4
N254064	Drill Core	0.063	19.6	24	1.01	69	0.164	5.72	0.729	0.90	0.8	23.0	43	40.4	38.8	1.6	<0.1	<1	18	5.3	8.8
N254085	Drill Core	0.101	8.2	35	2.60	229	0.202	8.30	1.359	0.76	0.1	19.2	19	2.6	10.8	1.4	<0.1	<1	22	6.8	4.0

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

CERTIFICATE OF ANALYSIS VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N254074	Drill Core	15.6	0.5	0.43	0.165	16	1.9	0.5
N254075	Drill Core	21.6	0.6	0.22	0.240	7	<0.5	<0.5
N254076	Drill Core	27.6	0.8	0.20	0.167	5	0.7	0.6
N254077	Rock	0.1	<0.1	<0.05	<0.005	<1	2.4	<0.5
N254078	Drill Core	18.3	0.5	0.24	0.127	6	0.7	0.8
N254079	Drill Core	21.5	0.5	0.46	0.088	9	1.6	1.0
N254080	Drill Core	23.1	0.7	0.31	0.119	15	1.6	1.3
N254081	Drill Core	8.3	0.5	0.21	0.037	8	1.0	0.6
N254082	Drill Core	6.7	0.4	0.20	0.082	9	<0.5	<0.5
N254083	Drill Core	15.9	0.4	0.25	0.142	12	1.7	0.8
N254084	Drill Core	9.3	0.5	0.28	0.067	8	1.4	<0.5
N254086	Drill Core	6.7	0.5	0.16	0.081	8	0.9	0.5
N254087	Drill Core	13.5	0.5	0.15	0.063	9	1.1	0.9
N254088	Drill Core	22.2	0.6	0.16	0.031	10	0.9	0.7
N254089	Drill Core	19.1	0.7	0.16	0.077	9	1.2	1.0
N254090	Drill Core	19.5	0.6	0.19	0.048	7	0.8	1.1
N254091	Drill Core	25.3	0.8	0.26	0.036	7	1.0	1.4
N254092	Rock	<0.1	<0.1	<0.05	<0.005	<1	7.3	<0.5
N254093	Drill Core	17.9	0.7	0.32	0.045	13	3.0	1.4
N254094	Drill Core	17.8	0.6	0.25	0.042	13	1.5	1.3
N254095	Rock Pulp	56.6	0.4	<0.05	0.661	<1	4.0	<0.5
N254096	Drill Core	19.1	0.7	0.19	0.036	12	2.5	1.1
N253325	Drill Core	20.5	0.3	0.24	0.192	11	0.7	<0.5
N253350	Drill Core	25.5	0.3	0.22	0.393	10	<0.5	<0.5
N253374	Drill Core	56.1	0.5	0.51	0.841	14	<0.5	<0.5
N253393	Drill Core	18.0	1.3	0.30	0.180	11	0.6	0.8
N254020	Drill Core	19.5	0.7	0.08	0.022	8	0.5	0.9
N254036	Drill Core	16.8	0.5	0.14	0.178	3	<0.5	0.8
N254064	Drill Core	29.2	0.5	0.67	0.153	16	1.3	0.5
N254085	Drill Core	11.4	0.5	0.23	0.070	8	2.0	0.6

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Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

	Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
N253389	Drill Core	9.45	41	16.7	594.5	5.7	23	0.2	23.5	28.4	98	6.15	12	0.5	0.8	51	0.2	0.3	0.9	215	0.84
REP N253389	QC			17.2	591.7	5.8	24	0.2	24.2	28.3	101	6.16	13	0.5	0.8	51	0.1	0.4	0.9	215	0.85
N253398	Rock	3.20	<2	<0.1	1.0	0.1	<1	<0.1	0.1	0.6	34	0.03	<1	1.4	<0.1	4859	<0.1	<0.1	<0.1	1	37.03
REP N253398	QC		<2																		
N254024	Drill Core	8.84	27	5.8	219.7	3.7	24	<0.1	37.7	46.7	76	6.36	<1	0.4	1.2	140	<0.1	<0.1	0.8	156	2.95
REP N254024	QC			6.7	230.0	3.8	26	<0.1	39.0	46.8	80	6.48	<1	0.4	1.1	143	<0.1	0.1	0.8	156	3.04
REP N254031	QC		61																		
N254060	Drill Core	6.37	20	22.6	234.9	4.2	28	4.4	15.8	22.1	83	5.63	5	0.8	2.0	70	<0.1	0.1	1.0	128	0.74
REP N254060	QC			22.0	254.5	4.1	28	5.1	16.6	24.2	87	5.79	6	0.8	1.9	68	0.1	0.1	0.9	130	0.76
REP N254067	QC		22																		
N253325	Drill Core	4.75	537	56.0	2882.0	3.1	32	0.5	2.6	14.0	192	8.31	<1	0.5	2.3	77	0.1	0.1	<0.1	43	2.16
REP N253325	QC			57.8	2922.6	3.0	32	0.6	2.4	14.5	198	8.39	<1	0.5	2.2	75	<0.1	<0.1	<0.1	44	2.15
REP N254036	QC		67																		
Core Reject Duplicates																					
N253396	Drill Core	7.94	34	13.1	228.6	5.5	31	<0.1	27.8	39.8	108	6.51	6	0.7	0.9	52	<0.1	0.2	1.4	203	0.92
DUP N253396	QC		35	13.4	238.1	5.9	34	<0.1	28.7	42.4	111	6.80	7	0.7	1.0	54	<0.1	0.2	1.4	211	0.96
N254031	Drill Core	10.14	59	18.2	712.7	4.9	29	<0.1	31.8	31.3	77	6.09	4	0.6	1.1	329	0.1	0.1	0.9	237	1.79
DUP N254031	QC		59	14.4	721.7	4.4	29	<0.1	31.1	32.0	73	6.02	4	0.6	1.1	329	0.2	0.1	0.8	230	1.75
N254067	Drill Core	5.49	22	8.4	264.5	10.1	54	<0.1	20.1	24.1	178	5.64	<1	0.5	1.1	273	0.3	<0.1	0.9	194	1.57
DUP N254067	QC		22	8.4	268.9	10.4	48	<0.1	21.2	24.1	179	5.69	<1	0.5	1.1	262	0.3	<0.1	1.0	188	1.51
N254036	Drill Core	5.28	54	10.3	582.6	3.8	25	<0.1	26.1	25.0	59	6.99	3	0.5	1.1	354	0.1	<0.1	0.7	231	1.71
DUP N254036	QC		63	10.2	599.5	3.9	24	<0.1	26.7	26.3	58	7.02	3	0.5	1.1	358	<0.1	0.1	0.7	230	1.68
Reference Materials																					
STD OREAS25A-4A	Standard			2.4	38.1	25.7	46	0.1	45.0	8.0	480	6.62	10	2.8	15.4	44	0.2	0.5	0.3	165	0.28
STD OREAS25A-4A	Standard			2.7	37.1	25.8	43	<0.1	49.7	8.2	489	6.64	11	2.9	15.3	47	<0.1	0.6	0.3	164	0.29
STD OREAS25A-4A	Standard			2.6	37.2	26.2	42	<0.1	50.2	8.4	515	6.81	10	2.7	15.9	47	<0.1	0.8	0.3	165	0.31
STD OREAS25A-4A	Standard			2.6	35.1	24.3	40	<0.1	47.6	8.4	479	6.69	9	2.7	14.4	44	<0.1	0.6	0.3	163	0.28
STD OREAS45E	Standard			2.5	787.5	18.1	47	0.4	480.0	60.2	553	24.77	17	2.4	12.3	15	<0.1	0.9	0.2	334	0.07

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Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N253389	Drill Core	0.094	5.6	34	2.49	47	0.241	7.58	0.154	1.48	0.7	26.2	14	3.1	8.6	1.3	<0.1	<1	20	3.0	4.8
REP N253389	QC	0.095	5.6	32	2.50	48	0.231	7.82	0.154	1.48	0.7	26.7	13	2.9	8.4	1.3	<0.1	<1	20	3.3	4.7
N253398	Rock	0.005	0.2	3	2.08	7	0.001	0.04	0.003	<0.01	<0.1	0.3	<1	<0.1	0.2	0.1	<0.1	<1	<1	0.1	<0.1
REP N253398	QC																				
N254024	Drill Core	0.088	8.6	18	2.19	46	0.116	7.45	0.288	1.08	0.2	20.0	19	3.7	9.7	0.9	<0.1	<1	16	4.8	6.7
REP N254024	QC	0.085	7.5	17	2.20	53	0.110	7.30	0.284	1.06	0.2	19.6	17	3.4	8.9	0.7	<0.1	<1	16	4.5	6.9
REP N254031	QC																				
N254060	Drill Core	0.067	7.0	17	1.64	36	0.104	6.95	0.339	2.28	33.2	26.2	16	4.2	10.8	0.9	<0.1	1	12	7.3	5.5
REP N254060	QC	0.066	7.1	18	1.69	35	0.101	7.24	0.345	2.33	39.8	26.5	16	4.6	10.5	0.8	<0.1	<1	13	7.7	5.6
REP N254067	QC																				
N253325	Drill Core	0.020	5.2	4	0.97	73	0.087	3.22	0.859	0.43	0.4	9.7	10	2.7	6.9	2.5	0.2	<1	6	7.5	1.6
REP N253325	QC	0.021	5.3	5	0.98	75	0.084	3.25	0.834	0.45	0.3	8.3	10	2.7	6.9	2.4	0.2	<1	6	7.6	1.6
REP N254036	QC																				
Core Reject Duplicates																					
N253396	Drill Core	0.098	5.3	36	2.66	39	0.279	7.15	0.167	1.52	0.4	22.0	13	6.2	8.6	1.8	0.1	<1	15	3.4	4.7
DUP N253396	QC	0.103	6.0	38	2.80	41	0.290	7.68	0.177	1.59	0.4	23.7	15	6.5	9.1	1.9	0.1	<1	17	3.6	4.9
N254031	Drill Core	0.101	8.3	38	2.85	235	0.231	8.46	0.537	1.39	0.2	20.1	18	4.6	11.7	1.5	<0.1	<1	22	7.3	3.2
DUP N254031	QC	0.103	9.0	37	2.81	164	0.256	8.32	0.527	1.43	0.2	21.2	20	5.0	12.0	1.9	<0.1	<1	23	7.5	3.3
N254067	Drill Core	0.085	8.6	43	1.80	37	0.165	8.46	1.558	1.74	0.5	19.0	19	4.1	12.9	0.8	<0.1	<1	21	5.2	4.9
DUP N254067	QC	0.086	8.1	39	1.75	30	0.154	8.26	1.514	1.75	0.5	18.8	19	4.1	12.7	0.8	<0.1	<1	21	5.7	5.0
N254036	Drill Core	0.099	6.7	36	2.62	239	0.202	8.16	0.822	1.29	0.2	14.6	15	4.1	11.4	1.3	<0.1	1	19	6.4	3.4
DUP N254036	QC	0.107	6.5	36	2.60	157	0.221	7.91	0.818	1.30	0.2	15.3	15	4.0	12.0	1.5	<0.1	<1	19	6.2	3.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.049	21.3	121	0.34	151	0.905	8.96	0.133	0.47	1.9	154.7	48	3.7	9.9	20.0	1.4	<1	12	37.1	<0.1
STD OREAS25A-4A	Standard	0.047	21.3	132	0.33	147	0.910	8.83	0.128	0.49	2.1	151.3	45	4.2	9.9	20.1	1.5	1	12	37.0	<0.1
STD OREAS25A-4A	Standard	0.047	25.2	132	0.33	154	0.870	9.35	0.133	0.50	1.9	148.8	53	4.2	11.0	20.0	1.4	1	13	37.2	<0.1
STD OREAS25A-4A	Standard	0.047	21.0	126	0.32	145	0.903	8.83	0.130	0.49	1.8	144.6	46	4.1	10.0	20.2	1.4	<1	12	36.7	<0.1
STD OREAS45E	Standard	0.036	10.2	1063	0.16	251	0.538	6.96	0.055	0.35	1.0	98.5	23	1.4	7.7	6.4	0.5	<1	94	6.5	<0.1

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QUALITY CONTROL REPORT VAN16001494.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253389	Drill Core	13.5	0.7	0.23	0.284	12	1.1	1.0
REP N253389	QC	14.0	0.8	0.28	0.329	12	1.0	0.9
N253398	Rock	0.2	<0.1	<0.05	0.006	<1	4.0	<0.5
REP N253398	QC							
N254024	Drill Core	11.4	0.6	0.11	0.036	12	<0.5	0.9
REP N254024	QC	8.8	0.6	0.13	0.036	12	0.6	0.9
REP N254031	QC							
N254060	Drill Core	38.4	0.8	0.12	0.139	13	0.5	1.3
REP N254060	QC	38.8	0.8	0.16	0.137	13	<0.5	1.4
REP N254067	QC							
N253325	Drill Core	20.5	0.3	0.24	0.192	11	0.7	<0.5
REP N253325	QC	22.4	0.2	0.21	0.221	12	0.5	<0.5
REP N254036	QC							
Core Reject Duplicates								
N253396	Drill Core	11.0	0.7	0.20	0.119	8	0.6	1.0
DUP N253396	QC	12.6	0.8	0.20	0.131	10	0.6	1.0
N254031	Drill Core	15.6	0.6	0.13	0.132	7	0.6	0.9
DUP N254031	QC	18.0	0.7	0.13	0.110	6	0.5	0.9
N254067	Drill Core	39.7	0.6	0.19	0.060	11	1.2	0.9
DUP N254067	QC	40.2	0.5	0.18	0.052	12	1.3	0.9
N254036	Drill Core	16.8	0.5	0.14	0.178	3	<0.5	0.8
DUP N254036	QC	16.8	0.5	0.15	0.195	4	<0.5	0.7
Reference Materials								
STD OREAS25A-4A	Standard	65.7	4.1	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	56.7	4.0	0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.1	4.5	0.12	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	57.6	4.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.6	2.9	0.10	<0.005	2	<0.5	<0.5

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.5	808.2	20.3	47	0.3	488.4	64.4	564	25.36	18	2.8	14.3	17	<0.1	1.1	0.3	336	0.07
STD OREAS45E	Standard			2.7	814.4	20.1	46	0.3	490.8	65.2	571	25.39	17	2.6	14.3	16	<0.1	1.1	0.4	349	0.08
STD OREAS45E	Standard			2.8	804.9	19.5	46	0.3	474.0	65.6	590	25.80	17	2.5	13.1	16	<0.1	1.1	0.3	340	0.07
STD OXD108	Standard		418																		
STD OXD108	Standard		425																		
STD OXD108	Standard		412																		
STD OXD108	Standard		419																		
STD OXI121	Standard		1765																		
STD OXI121	Standard		1803																		
STD OXI121	Standard		1791																		
STD OXI121	Standard		1764																		
STD OXD108 Expected			414																		
STD OXI121 Expected			1834																		
STD OREAS25A-4A Expected				2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	0.3	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	0.03	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	0.02	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.6	5.9	2.7	35	<0.1	1.1	4.4	661	2.17	2	1.2	2.9	197	<0.1	0.2	<0.1	35	1.48

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

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS45E	Standard	0.035	12.8	1073	0.16	267	0.549	7.12	0.053	0.33	1.4	96.4	26	1.4	8.6	6.3	0.5	1	91	7.2	<0.1
STD OREAS45E	Standard	0.033	12.6	1116	0.16	266	0.520	7.06	0.053	0.34	1.0	93.8	26	1.4	8.4	6.4	0.5	<1	95	6.8	<0.1
STD OREAS45E	Standard	0.033	11.5	1106	0.15	263	0.539	7.00	0.051	0.33	1.0	96.3	25	1.4	8.0	6.6	0.6	<1	88	6.2	<0.1
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXD108	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXI121	Standard																				
STD OXD108 Expected																					
STD OXI121 Expected																					
STD OREAS25A-4A Expected		0.0495	21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	0.4	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.040	12.7	5	0.49	803	0.217	6.77	3.345	1.76	0.4	56.6	24	0.9	15.5	5.7	0.4	<1	7	2.8	<0.1

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PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: Red Dog
Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E	Standard	22.5	2.9	0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.8	3.1	0.09	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	21.9	3.0	0.12	<0.005	3	<0.5	<0.5
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXD108	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXI121	Standard							
STD OXD108 Expected								
STD OXI121 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.09
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	37.3	1.8	<0.05	<0.005	<1	<0.5	<0.5

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Project: Red Dog

Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
ROCK-VAN	Prep Blank		<2	1.4	4.3	2.7	34	<0.1	0.9	4.4	660	2.10	1	1.1	2.8	197	<0.1	0.1	<0.1	35	1.51

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Report Date: September 08, 2016

QUALITY CONTROL REPORT VAN16001494.1

		MA200 P	MA200 La	MA200 Cr	MA200 Mg	MA200 Ba	MA200 Ti	MA200 Al	MA200 Na	MA200 K	MA200 W	MA200 Zr	MA200 Ce	MA200 Sn	MA200 Y	MA200 Nb	MA200 Ta	MA200 Be	MA200 Sc	MA200 Li	MA200 S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
ROCK-VAN	Prep Blank	0.039	12.6	5	0.48	775	0.214	6.73	3.336	1.72	0.3	53.5	24	0.8	15.2	5.6	0.4	1	7	2.8	<0.1

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QUALITY CONTROL REPORT VAN16001494.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
ROCK-VAN	Prep Blank	36.5	1.7	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: September 09, 2016
Report Date: September 20, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN16001633.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 2

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
BAT01	1	Batch charge of <20 samples			VAN
SLBHP	2	Sorting, labeling and boxing samples received as pulps			VAN
FA330-Au	1	Fire assay fusion Au by ICP-ES	30	Completed	VAN
MA200	2	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
DRPLP	2	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

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PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: None Given
Report Date: September 20, 2016

CERTIFICATE OF ANALYSIS VAN16001633.1

	Method	FA330	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001
NIHIC	Concentrate	1113	47.2	4417.5	87.9	127	1.8	64.6	63.8	405	25.24	56	0.3	0.7	12	1.1	2.0	4.1	327	0.15	0.034
NILIC	Concentrate		18.4	2180.2	21.3	267	0.9	70.2	26.2	627	52.85	25	0.2	0.6	6	0.4	2.3	2.2	1382	0.07	0.015

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: None Given
Report Date: September 20, 2016

CERTIFICATE OF ANALYSIS VAN16001633.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	MDL	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1
NIHIC	Concentrate	3.2	72	1.21	23	0.152	6.80	0.036	1.22	1.3	7.8	8	14.4	3.8	0.9	<0.1	<1	18	3.5	>10	16.1
NILIC	Concentrate	3.0	151	0.44	63	0.146	3.49	0.016	0.60	1.4	6.2	7	11.2	2.9	0.6	<0.1	<1	11	0.9	2.7	10.8

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Project: None Given
Report Date: September 20, 2016

CERTIFICATE OF ANALYSIS VAN16001633.1

Method		MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.05	0.005	1	0.5	0.5
NIHIC	Concentrate	0.2	0.37	0.284	14	1.5	1.2
NILIC	Concentrate	0.2	0.27	0.073	4	0.5	0.6

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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Project: None Given
Report Date: September 20, 2016

QUALITY CONTROL REPORT VAN16001633.1

	Method	FA330	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001
Pulp Duplicates																					
NIHIC	Concentrate	1113	47.2	4417.5	87.9	127	1.8	64.6	63.8	405	25.24	56	0.3	0.7	12	1.1	2.0	4.1	327	0.15	0.034
REP NIHIC	QC	1128																			
Reference Materials																					
STD OREAS25A-4A	Standard		2.5	36.0	25.5	48	<0.1	44.8	7.7	488	6.58	12	3.0	15.0	45	0.2	0.7	0.4	159	0.31	0.051
STD OREAS45E	Standard		2.7	782.3	19.7	51	0.4	479.7	61.0	610	25.53	19	2.7	14.1	18	<0.1	1.4	0.4	325	0.07	0.035
STD OXD108	Standard	408																			
STD OXD108 Expected		414																			
STD OREAS25A-4A Expected			2.55	33.9	26.6	44.4		45.8	8.2	500	6.7	10.7	2.94	15.8	48.5		0.67	0.35	163	0.283	0.0495
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034
BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001

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Vancouver British Columbia V6E 4H1 Canada

Project: None Given

Report Date: September 20, 2016

QUALITY CONTROL REPORT VAN16001633.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb
	Unit	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	MDL	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1
Pulp Duplicates																					
NIHIC	Concentrate	3.2	72	1.21	23	0.152	6.80	0.036	1.22	1.3	7.8	8	14.4	3.8	0.9	<0.1	<1	18	3.5	>10	16.1
REP NIHIC	QC																				
Reference Materials																					
STD OREAS25A-4A	Standard	21.1	116	0.33	154	0.939	8.94	0.138	0.50	1.9	154.4	47	4.6	9.2	20.1	1.4	1	13	37.8	<0.1	58.6
STD OREAS45E	Standard	12.3	1047	0.16	286	0.523	7.16	0.056	0.36	1.1	107.1	27	1.7	8.6	6.9	0.6	<1	99	7.1	<0.1	24.8
STD OXD108	Standard																				
STD OXD108 Expected																					
STD OREAS25A-4A Expected		21.8	120	0.327	151	0.977	8.87	0.134	0.5	2	155	48.9	4.2	10.5	20.9	1.5	0.93	13.7	36.7	0.047	61
STD OREAS45E Expected		11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2
BLK	Blank																				
BLK	Blank	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.1

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Project: None Given

Report Date: September 20, 2016

QUALITY CONTROL REPORT VAN16001633.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates							
NIHIC	Concentrate	0.2	0.37	0.284	14	1.5	1.2
REP NIHIC	QC						
Reference Materials							
STD OREAS25A-4A	Standard	4.2	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	3.2	0.08	<0.005	3	<0.5	<0.5
STD OXD108	Standard						
STD OXD108 Expected							
STD OREAS25A-4A Expected		4.28	0.09		2.5		0.35
STD OREAS45E Expected		3.11	0.099		2.97	0.1	0.09
BLK	Blank						
BLK	Blank	<0.1	<0.05	<0.005	<1	<0.5	<0.5

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **NORTHISLE COPPER AND GOLD INC.**
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

CERTIFICATE VA16145436

Project: Red Dog

This report is for 10 Pulp samples submitted to our lab in Vancouver, BC, Canada on 31- AUG- 2016.

The following have access to data associated with this certificate:

MICHAEL MCCLINTOCK	JOHN MCCLINTOCK 2	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
ME- MS61	48 element four acid ICP- MS	

To: **NORTHISLE COPPER AND GOLD INC.**
ATTN: JOHN MCCLINTOCK 2
15TH FLOOR, 1040 GEORGIA ST. WEST
VANCOUVER BC V6E 4H1

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: NORTHISLE COPPER AND GOLD INC.
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16145436

Sample Description	Method	WEI- 21	Au- ICP22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
N252938		0.24	1.165	1.31	2.96	2.4	80	0.22	0.17	0.01	0.12	6.38	10.4	2	0.19	7440
N252956		0.26	0.768	0.72	1.13	11.1	40	0.10	0.55	<0.01	0.13	0.89	12.6	2	0.05	4310
N252959		0.24	0.465	0.80	0.16	7.9	10	<0.05	0.34	0.01	0.11	0.40	3.5	2	<0.05	644
N252968		0.30	0.655	0.45	0.52	2.8	<10	0.07	0.36	0.01	0.15	0.60	17.3	1	<0.05	5040
N252980		0.22	0.562	0.31	0.64	3.3	10	0.06	0.55	0.03	0.16	1.16	25.9	1	<0.05	5410
N252988		0.28	0.541	0.45	0.42	2.6	10	<0.05	1.05	0.01	0.15	0.73	32.9	2	<0.05	5100
N253003		0.30	0.384	0.25	1.21	4.8	110	<0.05	0.62	0.77	0.11	1.10	11.1	2	0.34	4310
N253018		0.22	0.277	0.12	4.36	5.7	100	0.37	0.28	0.66	0.09	4.12	14.7	3	1.07	1790
N253033		0.26	0.188	0.06	5.49	0.8	190	0.82	0.23	0.29	0.08	2.86	7.3	3	1.09	1200
N253038		0.22	0.423	0.14	5.08	3.7	180	0.51	0.47	2.44	0.08	9.25	9.6	4	1.63	1260

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To: NORTHISLE COPPER AND GOLD INC.
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16145436

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
N252938		15.30	17.50	0.09	0.2	1.110	0.46	3.0	7.6	1.39	181	106.0	0.03	0.6	4.1	310
N252956		10.50	24.9	0.09	0.1	1.265	0.03	0.5	5.8	0.65	45	71.1	0.01	1.2	2.3	210
N252959		6.89	4.99	0.10	0.1	0.076	0.05	<0.5	2.8	0.02	32	27.5	0.02	0.8	0.8	50
N252968		9.74	9.27	0.09	0.1	0.611	0.01	<0.5	2.5	0.46	39	23.0	0.01	0.9	2.1	50
N252980		12.45	11.50	0.10	0.1	0.303	0.03	0.6	3.5	0.18	63	49.2	0.02	1.4	2.8	10
N252988		9.27	3.71	0.12	0.1	0.213	0.11	<0.5	2.0	0.02	41	46.3	0.02	0.6	2.7	10
N253003		12.85	14.40	0.13	0.1	0.097	0.21	0.5	2.3	0.02	40	75.7	0.02	1.2	2.2	20
N253018		7.83	13.25	0.07	0.4	0.111	0.99	2.3	7.8	1.22	177	70.3	0.08	1.4	2.8	50
N253033		6.93	13.70	0.09	0.5	0.105	1.15	1.6	5.3	1.26	171	19.30	0.49	1.1	2.7	150
N253038		4.69	11.25	0.08	0.7	0.166	1.32	4.9	5.4	0.73	124	67.2	0.36	1.9	2.8	140

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To: NORTHISLE COPPER AND GOLD INC.
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16145436

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
N252938		3.6	14.3	0.761	0.81	0.28	4.1	9	3.6	2.8	<0.05	0.17	1.86	0.054	0.23	0.2
N252956		6.5	1.1	0.376	1.83	0.31	3.1	9	3.2	2.1	0.07	0.58	1.89	0.020	0.02	0.1
N252959		5.7	1.5	0.085	0.80	0.27	0.7	18	3.0	1.7	<0.05	1.01	0.34	0.014	0.02	0.1
N252968		3.7	0.4	0.862	3.02	0.19	1.2	12	3.1	1.0	<0.05	0.74	0.39	0.010	0.02	0.1
N252980		7.1	1.2	0.345	5.32	0.26	2.1	23	8.2	1.2	0.05	1.85	0.32	0.014	0.03	0.1
N252988		5.2	4.0	0.284	8.36	0.23	1.1	31	3.7	1.2	0.06	2.81	0.41	0.009	0.06	0.1
N253003		3.8	5.8	0.301	>10.0	0.42	1.6	26	5.1	8.3	0.12	1.17	0.44	0.020	0.06	0.1
N253018		4.0	35.1	0.380	3.70	0.44	5.4	9	6.9	7.1	0.63	0.79	2.90	0.081	0.53	0.4
N253033		4.0	33.6	0.099	5.46	0.13	4.8	16	3.1	16.5	0.16	0.41	4.08	0.074	0.41	0.4
N253038		5.3	44.8	0.446	4.07	0.24	8.3	11	4.1	20.8	0.18	1.39	4.06	0.088	0.49	0.6

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To: **NORTHISLE COPPER AND GOLD INC.**
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16145436

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Cu- OG62
	Analyte	V	W	Y	Zn	Zr	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	0.1	0.1	2	0.5	0.001
N252938		37	0.5	1.8	129	5.4	0.723
N252956		17	0.9	0.5	21	2.6	0.412
N252959		11	0.5	1.0	17	2.2	
N252968		10	0.4	0.8	20	1.8	0.504
N252980		13	0.3	2.3	23	2.1	0.525
N252988		10	0.2	1.3	13	2.2	0.480
N253003		23	0.2	2.6	11	2.8	0.425
N253018		25	0.5	3.4	32	9.8	0.177
N253033		32	0.3	2.5	22	15.4	0.121
N253038		42	0.8	7.3	21	20.5	0.124

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VANCOUVER BC V6C 3P1

Finalized Date: 7- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16145436

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- ICP22	Cu- OG62	LOG- 24	ME- MS61
ME- OG62	WEI- 21		

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1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 28- SEP- 2016
Account: NORCOP

CERTIFICATE VA16155559

Project: Red Dog

This report is for 26 Pulp samples submitted to our lab in Vancouver, BC, Canada on 15- SEP- 2016.

The following have access to data associated with this certificate:

JOHN MCCLINTOCK 2

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- QC	QC Test on Received Samples

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES
ME- MS61	48 element four acid ICP- MS	

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 28- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16155559

Sample Description	Method	WEI- 21	Au- ICP22	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
N253054		0.26	0.822	0.49	7.32	3.5	230	0.75	0.28	0.39	0.20	15.65	16.8	8	1.21	4500
N253073		0.26	0.383	0.34	6.00	11.1	140	0.67	0.23	0.19	0.26	9.41	13.1	24	1.11	2420
N253081		0.02	0.219	12.10	7.12	14.4	740	0.80	1.86	2.83	0.19	21.4	8.6	20	1.36	1905
N253091		0.28	0.479	0.23	5.74	6.0	110	0.44	0.55	0.28	0.10	10.20	19.2	18	0.49	2530
N253107		0.28	0.568	0.38	3.93	10.5	160	0.34	0.97	1.45	0.10	5.19	17.5	15	0.83	4910
N253122		0.22	0.341	0.40	3.02	27.1	60	0.22	0.87	0.35	0.13	1.91	21.2	2	0.32	3330
N253137		0.28	0.120	0.07	3.09	20.5	90	0.23	0.71	3.27	0.05	4.44	14.6	7	1.53	1565
N253143		0.28	0.595	1.17	6.28	7.0	250	0.56	0.84	0.30	0.40	14.95	15.4	6	1.13	4140
N253163		0.24	0.756	0.45	6.69	2.6	120	0.79	0.14	0.56	0.71	15.70	17.5	16	1.03	3070
N253185		0.16	0.240	0.45	7.71	8.5	160	0.74	0.52	0.59	0.33	25.7	15.6	23	1.29	1145
N253205		0.26	0.346	0.22	8.28	6.6	160	0.94	0.16	1.88	0.10	17.70	9.9	33	0.68	1185
N253225		0.20	0.369	0.17	4.63	21.7	40	0.08	0.91	0.05	0.06	5.29	0.6	4	<0.05	189.0
N253252		0.26	0.029	0.05	7.94	7.1	770	1.05	0.56	0.11	0.03	24.1	7.0	4	0.40	595
N253264		0.20	0.033	0.07	7.16	8.2	280	0.65	1.35	0.03	0.05	18.85	12.3	6	0.38	428
N253286		0.22	0.091	0.27	7.97	13.0	280	0.77	1.42	0.17	0.21	12.40	29.0	12	0.83	1420
N253305		0.22	0.230	0.64	4.26	8.9	120	0.26	0.16	0.09	0.05	4.13	19.2	3	0.58	2810
N253319		0.26	0.369	0.32	3.29	1.2	60	0.29	0.09	0.66	0.16	5.94	15.4	2	0.33	4210
N253340		0.26	0.562	0.50	3.24	0.6	120	0.30	0.49	0.45	0.14	6.44	9.4	4	0.39	2640
N253360		0.28	0.122	0.22	7.60	1.0	530	0.58	0.11	2.61	0.11	24.0	20.7	6	1.54	1530
N253376		0.20	0.648	0.96	4.87	2.6	300	0.35	0.22	1.14	0.18	23.3	39.9	4	0.70	8030
N253381		0.14	0.086	0.41	7.74	16.8	300	0.93	1.14	0.73	0.16	18.20	26.9	18	0.70	1155
N254001		0.12	0.056	0.20	8.20	15.2	260	0.85	1.80	0.72	0.16	23.1	51.4	20	0.45	547
N254021		0.18	0.035	0.03	7.60	12.2	190	0.84	0.92	3.54	0.09	19.30	30.4	36	0.69	147.0
N254041		0.18	0.066	0.58	8.20	4.2	280	0.79	0.80	2.19	0.15	18.20	27.9	40	0.63	507
N254061		0.18	0.012	0.04	7.56	4.5	210	0.87	0.76	0.54	0.14	23.7	16.3	8	1.09	69.2
N254081		0.32	0.022	0.07	7.92	3.0	220	0.86	0.43	1.95	0.14	20.9	18.7	38	0.62	198.5

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VANCOUVER BC V6C 3P1

Finalized Date: 28- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16155559

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
N253054		12.50	18.65	0.14	0.5	0.608	1.80	6.4	10.4	2.32	384	81.5	0.84	2.5	7.6	770
N253073		14.35	17.55	0.12	0.3	0.608	1.39	3.6	13.8	2.36	276	94.1	0.18	2.3	9.5	780
N253081		3.56	15.80	0.14	0.6	0.084	1.78	9.0	8.7	0.84	689	374	2.13	2.7	14.2	540
N253091		12.50	21.1	0.15	0.4	0.738	1.43	3.8	6.9	1.57	92	34.1	0.17	2.0	13.4	630
N253107		11.35	13.50	0.15	0.2	0.407	0.63	2.0	5.2	1.08	51	43.1	0.04	1.4	10.2	430
N253122		7.03	10.10	0.10	0.1	0.556	0.62	0.7	5.3	1.43	65	21.6	0.05	1.1	7.4	270
N253137		8.18	10.75	0.08	0.2	0.113	0.75	1.7	5.8	0.35	45	15.70	0.05	0.9	7.5	360
N253143		10.30	16.35	0.13	0.8	0.667	2.00	6.1	6.3	2.00	395	73.0	0.42	4.0	5.7	550
N253163		12.05	17.80	0.12	0.5	0.533	1.05	6.2	7.9	2.22	353	97.8	1.44	1.9	13.1	750
N253185		6.42	13.70	0.15	0.7	0.282	1.98	9.9	11.3	0.64	107	55.9	0.57	2.4	11.3	970
N253205		6.29	19.65	0.13	0.8	0.242	1.01	7.5	9.1	2.85	206	10.25	1.46	3.3	17.8	1060
N253225		3.37	6.82	0.12	1.3	0.029	0.03	2.4	0.3	0.02	27	6.19	0.03	3.2	0.4	340
N253252		2.95	13.65	0.13	2.6	0.340	2.10	11.6	1.7	1.18	111	4.59	0.11	4.7	2.5	440
N253264		3.89	14.30	0.16	2.7	0.214	1.58	8.9	3.8	1.26	32	7.21	0.06	4.7	5.4	430
N253286		7.26	16.90	0.18	1.2	0.365	1.58	4.5	7.2	1.94	109	53.4	0.20	4.0	16.8	660
N253305		7.83	13.30	0.14	0.5	0.211	0.59	2.0	4.8	0.54	84	94.4	1.09	3.8	2.9	130
N253319		10.05	9.36	0.10	0.3	0.297	0.20	2.9	6.5	0.92	193	89.2	1.27	2.2	3.0	120
N253340		8.10	9.40	0.10	0.3	0.220	0.52	3.2	7.9	1.16	223	61.9	0.50	1.9	3.8	140
N253360		4.77	17.70	0.16	1.2	0.153	1.01	10.9	12.8	1.59	403	50.5	1.81	4.6	8.7	460
N253376		5.99	21.4	0.14	0.6	0.636	1.16	11.2	5.7	0.44	151	46.2	1.50	2.9	6.5	210
N253381		6.59	16.80	0.15	1.1	0.390	1.51	7.7	4.4	2.83	133	92.7	0.16	3.3	16.1	910
N254001		5.71	19.80	0.14	1.1	0.205	1.20	9.3	5.3	3.83	95	28.9	0.11	4.2	54.3	990
N254021		6.38	17.10	0.15	1.0	0.098	0.85	7.5	3.4	2.01	71	7.81	0.38	2.4	27.1	1010
N254041		6.43	19.00	0.13	0.6	0.179	1.13	8.2	8.2	2.78	80	13.20	0.97	3.0	25.4	1070
N254061		5.66	14.10	0.16	1.2	0.093	2.48	10.7	5.8	1.35	83	14.55	0.27	2.2	7.3	540
N254081		7.31	18.65	0.16	0.8	0.171	0.77	8.1	8.7	2.99	277	5.91	1.08	3.2	25.6	1010

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **NORTHISLE COPPER AND GOLD INC.**
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 28- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16155559

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
N253054		12.2	59.3	0.892	2.73	0.30	16.9	8	3.4	73.7	0.15	0.94	1.45	0.259	0.62	0.4
N253073		5.9	48.9	0.689	2.66	0.58	15.3	6	4.2	18.6	0.12	1.16	0.85	0.208	0.64	0.3
N253081		23.6	35.6	0.383	0.32	33.1	9.1	1	2.9	439	0.17	1.12	1.99	0.194	0.22	1.0
N253091		5.0	49.1	0.191	6.80	0.36	29.9	15	15.4	9.0	0.12	2.21	1.13	0.194	0.69	0.5
N253107		5.5	20.4	0.190	9.89	0.45	11.4	25	4.5	18.1	0.08	1.43	0.71	0.113	0.35	0.2
N253122		4.0	18.1	0.095	6.03	0.23	6.0	19	3.6	4.6	0.10	1.08	1.29	0.095	0.26	0.2
N253137		3.4	23.7	0.087	8.09	0.56	9.1	17	5.2	19.2	0.07	1.13	1.06	0.094	0.25	0.2
N253143		24.4	69.0	0.634	6.53	0.40	14.8	15	4.4	38.8	0.24	1.96	1.84	0.303	1.00	0.6
N253163		6.8	37.8	1.015	1.79	0.30	15.2	6	2.7	98.4	0.12	1.28	1.50	0.198	0.45	0.3
N253185		8.2	60.1	0.335	5.04	0.82	13.8	11	3.8	205	0.13	1.82	1.35	0.254	0.71	0.5
N253205		6.0	24.8	0.087	1.69	0.19	24.8	7	4.5	234	0.19	0.69	1.37	0.363	0.47	0.4
N253225		6.2	0.5	0.007	0.16	3.25	4.5	24	5.2	101.0	0.28	0.40	2.86	0.182	0.02	0.6
N253252		4.1	53.4	0.018	2.25	0.15	10.7	7	4.8	36.7	0.43	0.61	4.96	0.206	1.29	2.1
N253264		3.0	37.2	0.053	4.56	0.13	16.2	17	7.1	11.3	0.43	1.60	4.51	0.204	0.93	2.2
N253286		7.1	20.4	0.579	7.65	0.36	15.8	21	5.9	47.5	0.24	1.99	1.27	0.322	1.05	0.9
N253305		6.8	24.5	0.239	1.78	0.16	7.8	24	2.5	54.7	0.22	0.29	2.66	0.123	0.17	0.7
N253319		4.9	8.2	0.190	2.06	0.06	5.1	9	3.3	85.7	0.18	0.12	2.03	0.087	0.13	0.4
N253340		3.5	18.0	0.664	1.52	0.10	5.5	13	3.1	36.2	0.13	0.36	1.96	0.080	0.35	0.3
N253360		3.3	29.8	0.312	0.72	0.10	19.4	7	5.6	556	0.33	0.11	3.25	0.308	0.25	1.1
N253376		3.7	34.9	0.278	2.08	0.22	12.7	13	7.1	164.0	0.24	0.31	3.48	0.126	0.26	1.1
N253381		4.9	30.6	0.858	5.12	0.25	18.8	17	4.0	59.3	0.19	0.67	1.40	0.330	0.86	0.8
N254001		4.8	15.3	0.329	3.06	0.31	18.0	8	6.4	43.0	0.26	1.26	1.31	0.383	0.80	0.9
N254021		3.5	7.9	0.042	5.94	0.19	20.5	10	8.6	205	0.16	0.48	1.32	0.278	0.69	0.6
N254041		5.4	15.1	0.115	3.62	0.16	24.2	8	5.0	365	0.19	0.32	1.32	0.377	0.68	0.5
N254061		4.9	59.2	0.101	5.90	0.16	14.4	17	5.2	67.9	0.17	0.41	2.75	0.173	1.44	1.0
N254081		5.9	11.2	0.034	3.66	0.16	25.1	10	4.4	536	0.20	0.77	1.29	0.368	0.57	0.5

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

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To: NORTHISLE COPPER AND GOLD INC.
1800 - 570 GRANVILLE STREET
VANCOUVER BC V6C 3P1

Finalized Date: 28- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16155559

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
N253054		182	0.3	14.2	213	15.6
N253073		128	0.5	10.2	164	8.3
N253081		82	1.7	11.3	61	10.2
N253091		169	0.8	7.1	33	12.2
N253107		88	0.5	5.7	21	5.8
N253122		51	0.4	2.5	25	4.8
N253137		74	1.0	8.1	9	6.0
N253143		126	0.7	11.9	232	25.3
N253163		148	0.4	16.7	187	14.8
N253185		170	1.6	11.7	69	23.0
N253205		223	0.2	12.7	61	25.9
N253225		61	0.5	1.3	4	44.1
N253252		71	0.8	11.5	38	86.2
N253264		87	0.8	12.2	13	86.2
N253286		149	1.1	8.7	47	37.9
N253305		61	0.6	2.1	17	16.5
N253319		45	0.4	5.3	40	9.1
N253340		42	0.7	6.6	41	8.6
N253360		146	0.6	16.6	38	41.1
N253376		66	0.5	14.0	21	17.5
N253381		171	2.3	14.7	34	40.3
N254001		192	2.4	11.5	26	42.7
N254021		176	0.4	9.7	46	32.7
N254041		222	3.4	14.7	27	18.2
N254061		112	0.8	11.7	24	40.9
N254081		203	0.3	15.2	79	24.1

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VANCOUVER BC V6C 3P1

Finalized Date: 28- SEP- 2016
Account: NORCOP

Project: Red Dog

CERTIFICATE OF ANALYSIS VA16155559

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

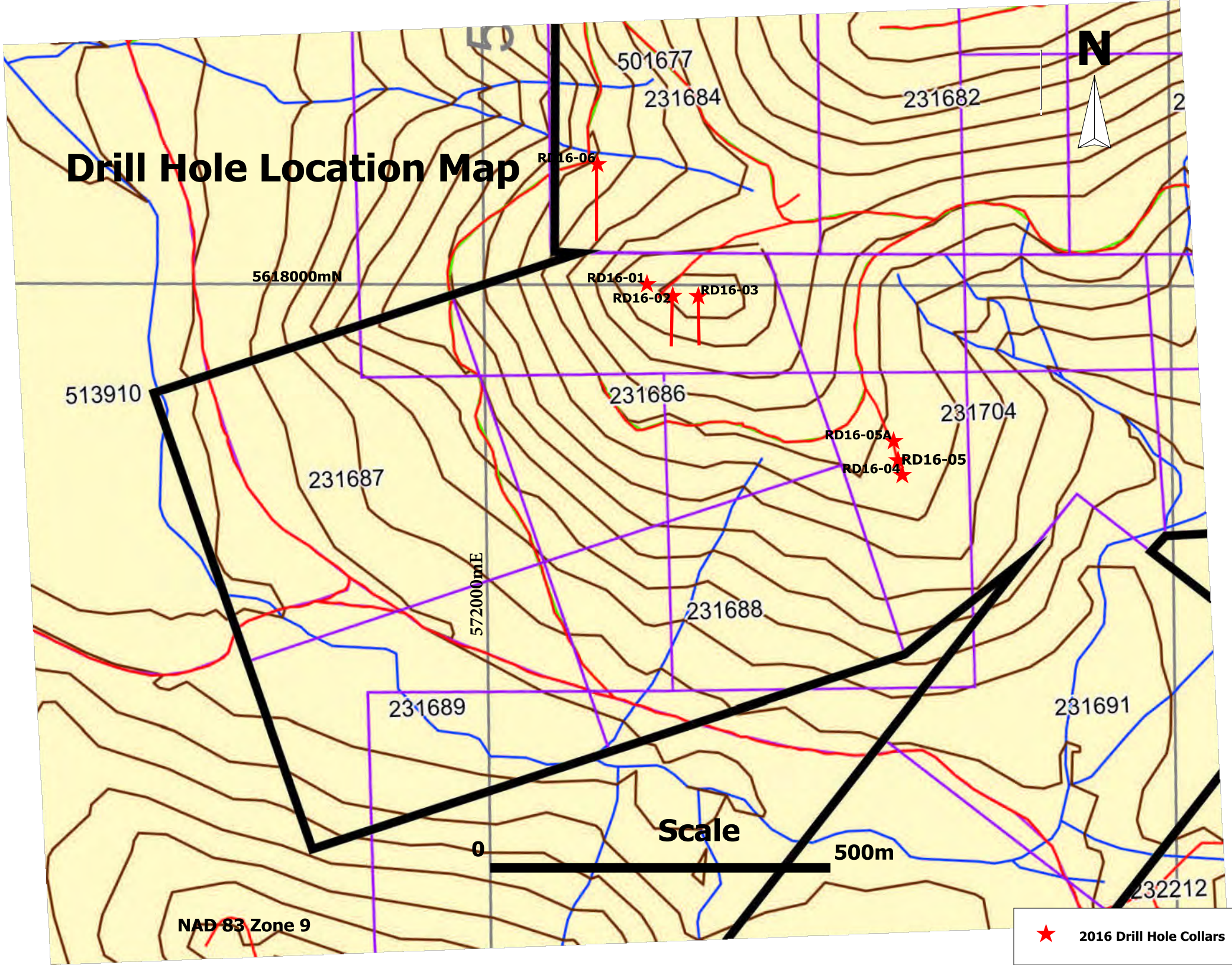
LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP22 LOG- 24 LOG- QC ME- MS61
WEI- 21

Appendix VII

Expanded Scale Maps for:

Figures 7,9,10, 11, 12 and 13


Drill Hole Location Map
N
501677
231684
231682
RD16-06
5618000mN
RD16-01
RD16-02
RD16-03
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231686
231704
RD16-05A
RD16-05
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Scale
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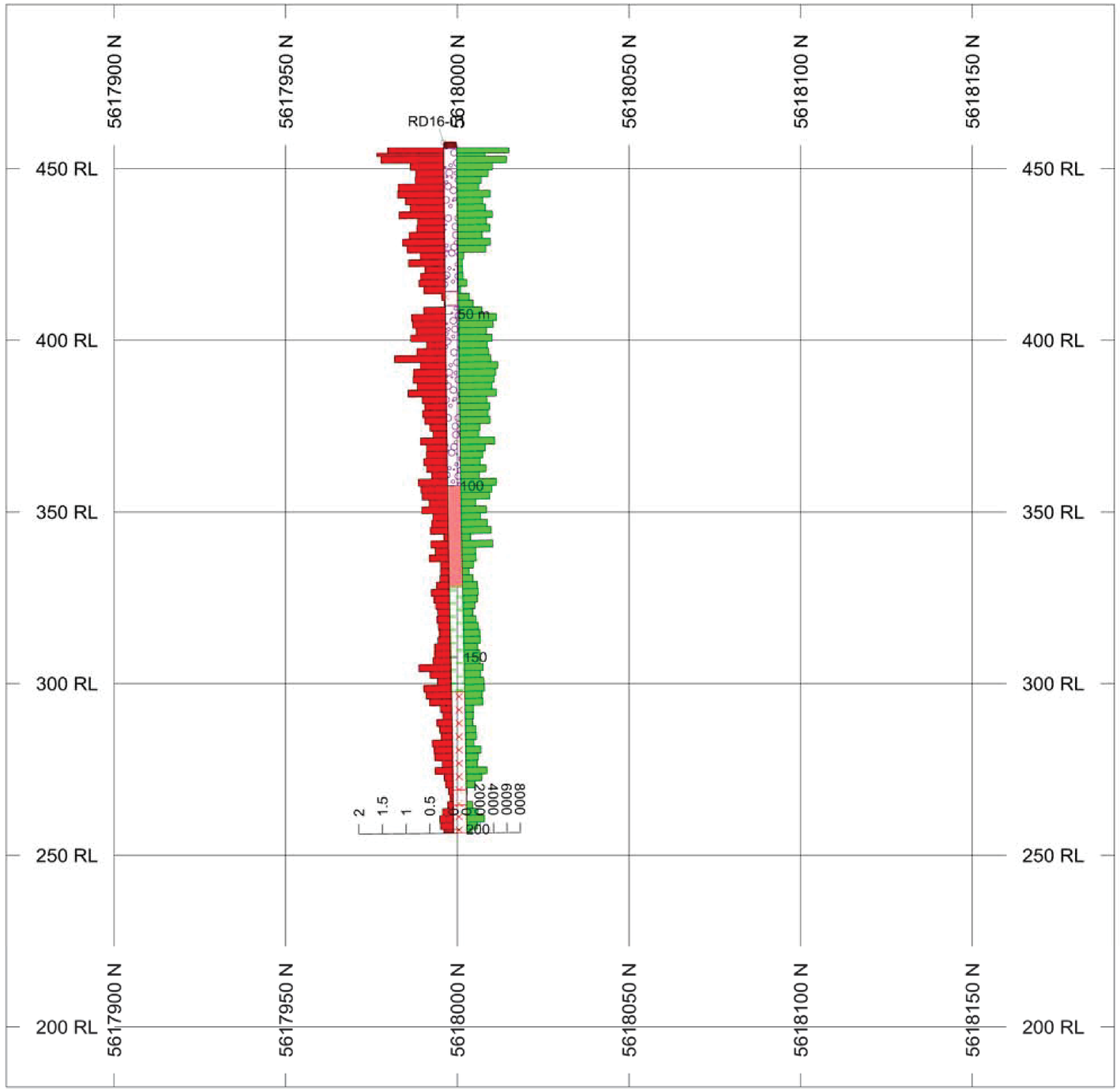
500m
NAD 83 Zone 9
2016 Drill Hole Collars



BAR GRAPHS L/R COL

Cu_ICP_ppm R

Au1_AA_ppm L

ROCK CODES Lith1	PAT	LABEL	DESCRIPTION
		BVv	Bonanza Volcanic undivided
		RoPr	Rose Porphyry
		Sy	Syenite
		HFPr	Hornblend feldspar porphyry
		CASE	Till
		RDP	Red Dog Porphyry
		SBx	Siliceous breccia
		Ba	Basalt dyke
		QMB	Quartz Magnetite Breccia

SECTION SPECS:

REF. PT. E, N	572226 m	5618030 m
EXTENTS	322.8 m	315.3 m
SECTION TOP, BOT	497.7 m	182.5 m
TOLERANCE +/-	15.65 m	

SCALE

(m)

-10 0 10 20 30 40 50 60

*unknown

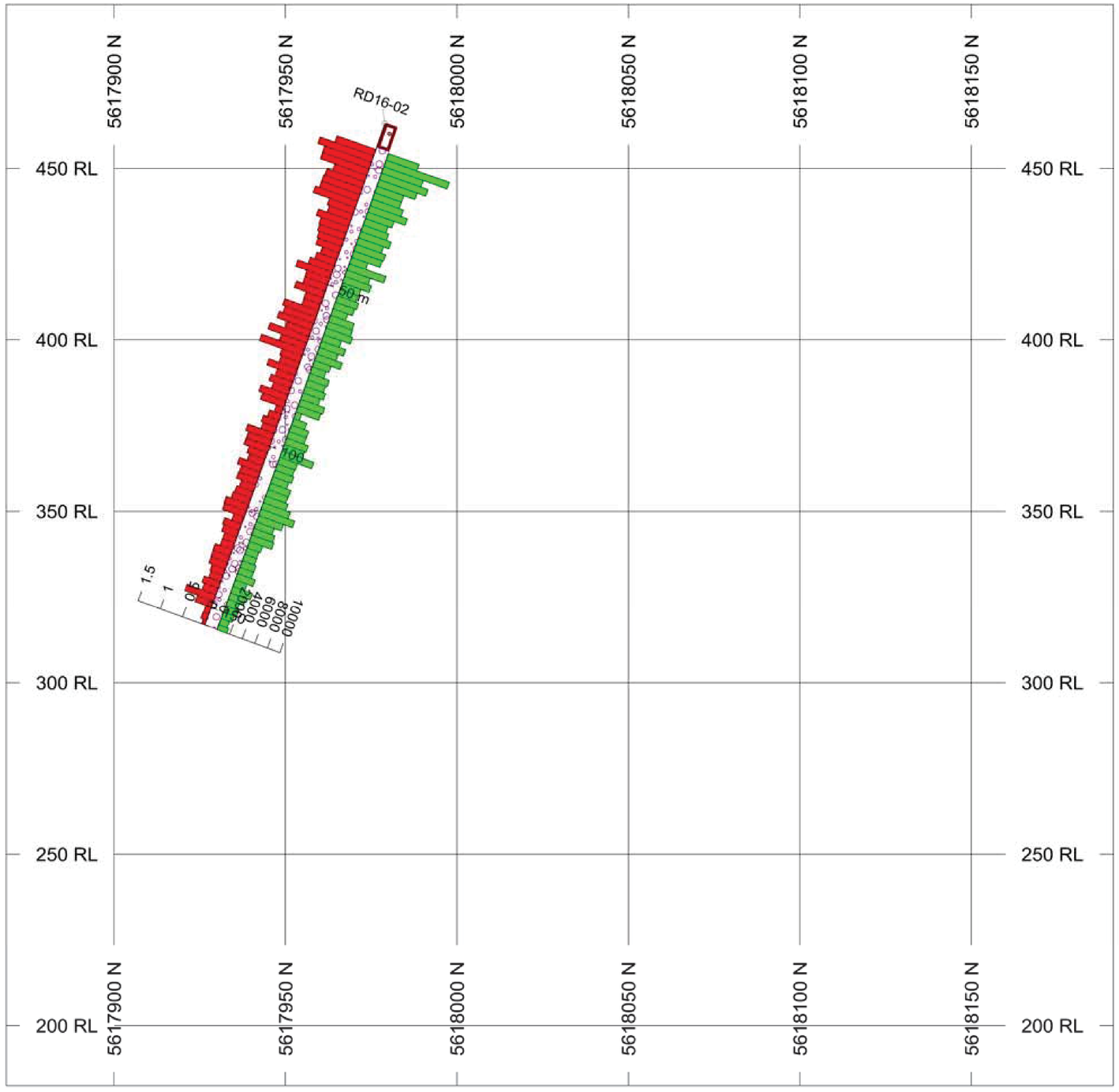
AZIMUTH = 0°

N W E S

Northisle Copper and Gold Inc.

Red Dog

Section



BAR GRAPHS | L/R | COL

Cu_ICP_ppm | R

Au1_AA_ppm | L

ROCK CODES Lith1	PAT	LABEL	DESCRIPTION
		BVv	Bonanza Volcanic undivided
		RoPr	Rose Porphyry
		Sy	Syenite
		HFPr	Hornblend feldspar porphyry
		CASE	Till
		RDP	Red Dog Porphyry
		SBx	Siliceous breccia
		Ba	Basalt dyke
		QMB	Quartz Magnetite Breccia

SECTION SPECS:

REF. PT. E, N	572257 m	5618030 m
EXTENTS	322.8 m	315.3 m
SECTION TOP, BOT	497.7 m	182.5 m
TOLERANCE +/-	15.65 m	

SCALE

(m)

-10 0 10 20 30 40 50 60

*unknown

AZIMUTH = 0°

N

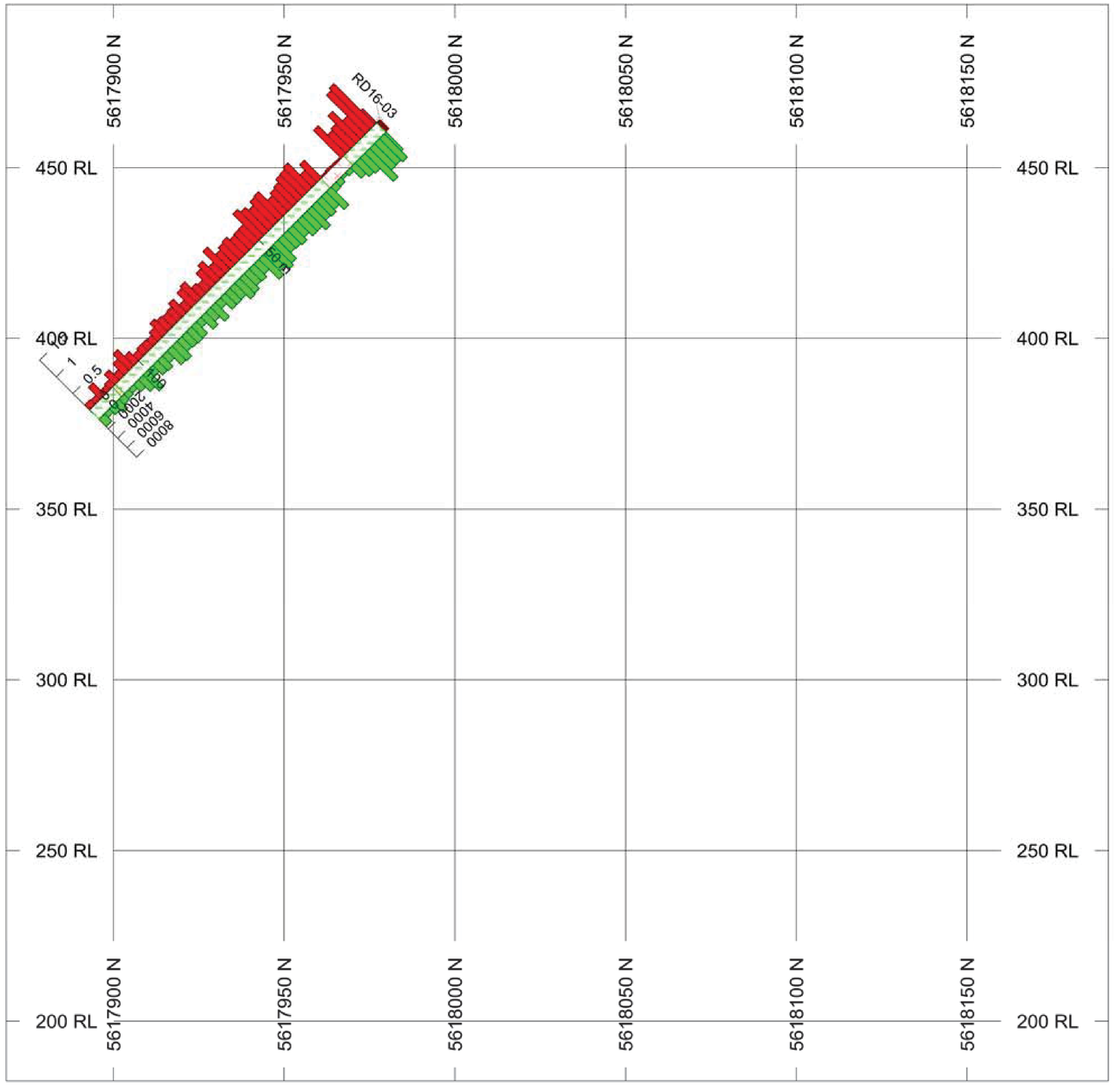
W E

S

Northisle Copper and Gold Inc.

Red Dog

Section



BAR GRAPHS | L/R | COL

Cu_ICP_ppm | R

Au1_AA_ppm | L

ROCK CODES Lith1	PAT	LABEL	DESCRIPTION
		BVv	Bonanza Volcanic undivided
		RoPr	Rose Porphyry
		Sy	Syenite
		HFPr	Hornblend feldspar porphyry
		CASE	Till
		RDP	Red Dog Porphyry
		SBx	Siliceous breccia
		Ba	Basalt dyke
		QMB	Quartz Magnetite Breccia

SECTION SPECS:

REF. PT. E, N	572319 m	5618030 m
EXTENTS	322.8 m	315.3 m
SECTION TOP, BOT	497.7 m	182.5 m
TOLERANCE +/-	15.65 m	

SCALE

(m)

-10 0 10 20 30 40 50 60

*unknown

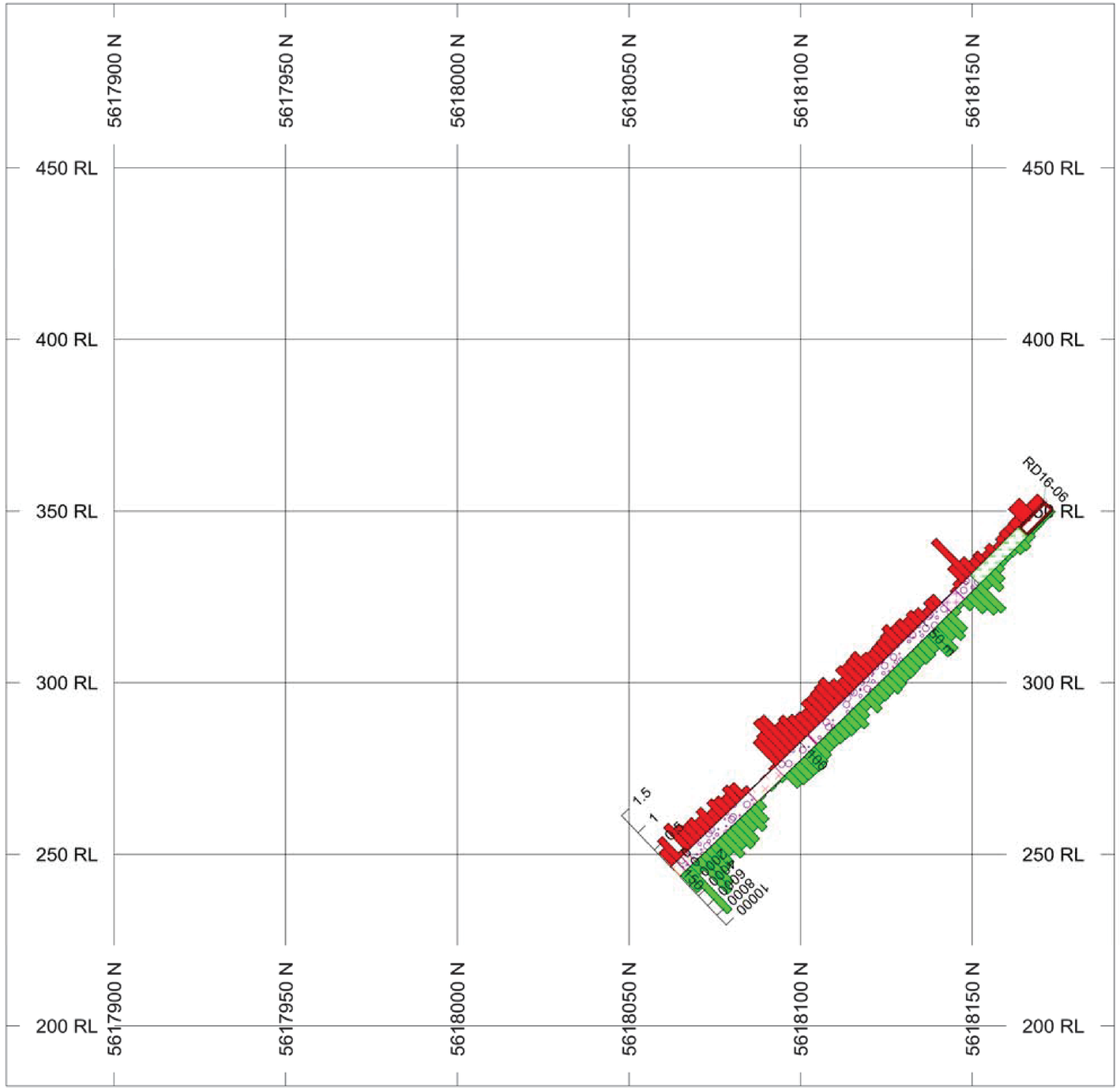
AZIMUTH = 0°

N W E S

Northisle Copper and Gold Inc.

Red Dog

Section



BAR GRAPHS	L/R	COL
Cu_ICP_ppm	R	
Au1_AA_ppm	L	

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith1		BVv	Bonanza Volcanic undivided
		Sy	Syenite
		HFPr	Hornblend feldspar porphyry
		CASE	Till
		RDP	Red Dog Porphyry
		Ba	Basalt dyke
		QMB	Quartz Magnetite Breccia

SECTION SPECS:

REF. PT. E, N	572164 m	5618030 m
EXTENTS	322.8 m	315.3 m
SECTION TOP, BOT	497.7 m	182.5 m
TOLERANCE +/-	15.65 m	

SCALE

(m)

-10 0 10 20 30 40 50 60

*unknown

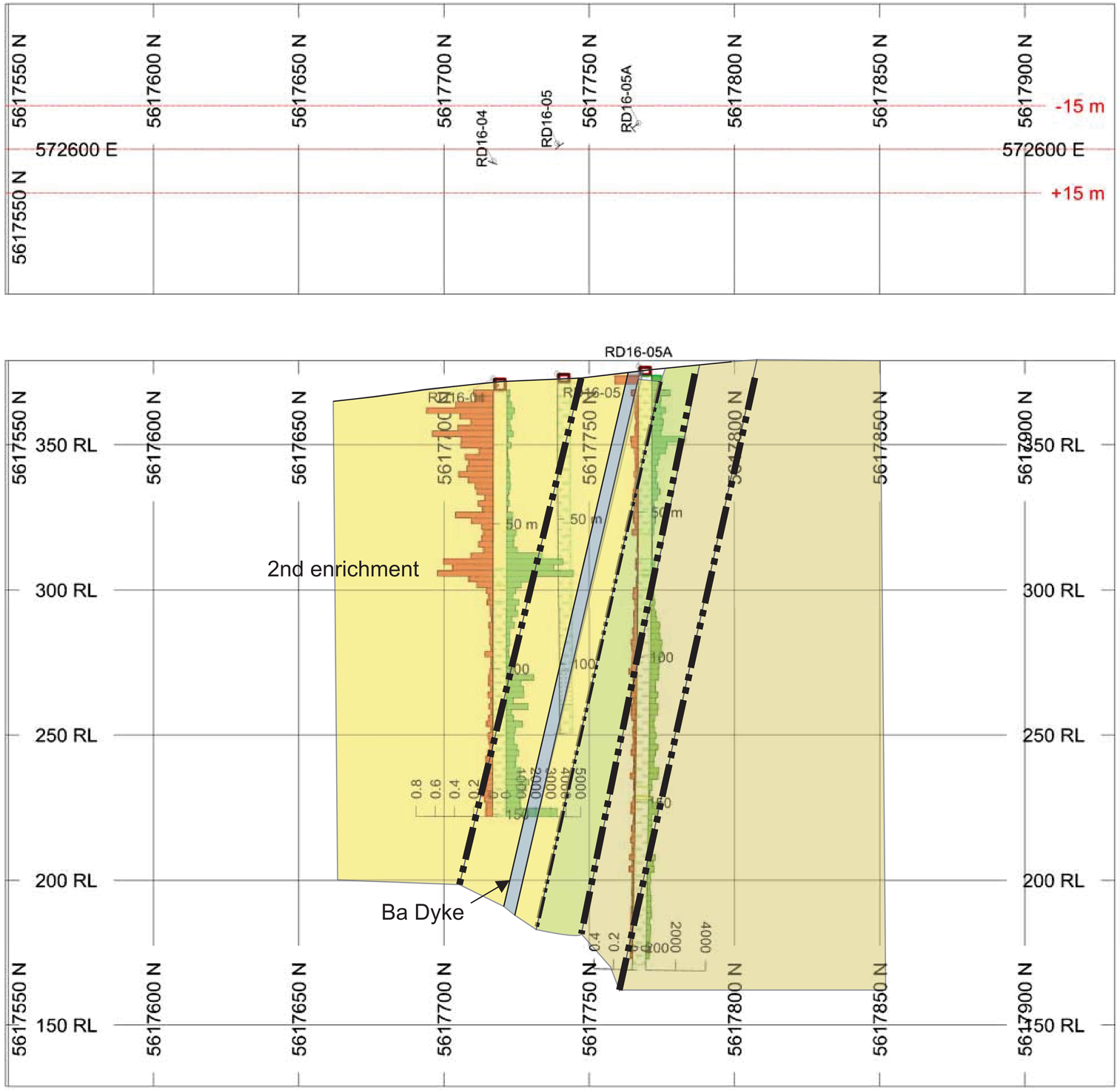
AZIMUTH = 0°

N W E S

Northisle Copper and Gold Inc.

Red Dog

Section



Alteration

- SCP: Silica Clay Pyrite
- Chlorite Sericite
- Chlorite Magnetite Sericite
- Major Fault

BAR GRAPHS	L/R	COL
Cu_ICP_ppm	R	
Au1_AA_ppm	L	

ROCK CODES	PAT	LABEL	DESCRIPTION
Lith1		BVv	Bonanza Volcanic undivided
		FPY	feldspar porphyry
		CASE	Till
		Ba	Basalt dyke

SECTION SPECS:

REF. PT. E, N	572600 m	5617740 m
EXTENTS	381.9 m	250 m
SECTION TOP, BOT	378.9 m	128.9 m
TOLERANCE +/-	15 m	

SCALE

(m)

-20 0 20 40 60

*unknown

AZIMUTH = 0°

N

W E

S

Northisle Copper and Gold Inc.

Red Dog

Section RD16-04, 05, 05A

Geology and Cu, Au Assays