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# RioTinto

**Rio Tinto Exploration Canada Inc.**

## **2022 Baril Lake Exploration Program**

Brule Lake Area  
NTS 52B/10 – Burchell Lake  
Thunder Bay Mining Division  
Ontario, Canada

Greg Galloway, P.Geol  
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## Table of Contents

Executive Summary.....	1
Location and Access.....	2
Property Status.....	3
Previous Work.....	5
Regional Geology.....	6
Property Geology.....	7
TDEM Geophysical Surveys.....	18
Downhole TDEM Survey.....	18
Interpretation of the TDEM Data.....	19
Discussion and Recommendation of Further Work.....	21
Geological Mapping.....	21
Overburden Stripping.....	27
Diamond Drilling.....	30
Drillhole Geology.....	34
Drilling Summary.....	44
Surface Sample Geochemistry.....	45
Sampling Method and Approach.....	45
Quality Control.....	45
Sample Preparation, Analyses.....	45
Assay Results and Discussion.....	45
Drillhole Geochemistry.....	46
Sampling Method and Approach.....	46
Quality Control.....	46
Sample Preparation, Analyses.....	46
Assay Results and Discussion.....	47
Discussion and Recommendation for Further Work.....	48
References.....	49
Statement of Qualifications.....	50
Appendix A - Exploration Costs.....	51
Appendix B - Geophysical Survey & Logistics Report.....	53
Appendix C - Core Logs.....	54
Appendix D - Cross Sections.....	55
Appendix E - Certificate of Analyses.....	56

## List of Figures

Figure 1. Map showing the location of the Baril Lake property and access route relative to Thunder Bay	3
Figure 2. Worked claims with road for location reference .....	5
Figure 3. Regional Geology with the Baril Lake Project highlighted .....	7
Figure 4. 2022 Baril Lake surface geological interpretation with structural measurements.....	8
Figure 5. Downhole TDEM surveys 2022, Baril Lake.....	19
Figure 6. Baril Lake Geology map with lithology observation points and traverses.....	22
Figure 7. Structural measurements from mapping program plotted on a stereonet. The points represent poles to the planes of measured structural features. This pattern highlights a dominant F1 foliation that is isoclinally folded with folds plunging gently east.....	23
Figure 8. Boudined ultramafic sill in biotite schist. Boudinage is visible in the X-Y direction along F1 foliation and in the Z direction.....	23
Figure 9. Boudined ultramafic sill in biotite schist. Note concentration of felsic material the tip of the boudins and the deformed F1 foliation in the less competent schist that wraps around the more competent ultramafic. ....	24
Figure 10. Biotite schist displaying F2 fold pattern with dextral movement. The felsic intrusive at the bottom of the photo has injected into the biotite schist along the plane of weakness parallel to the F2 fold hinge. ....	25
Figure 11. Boudined ultramafic sill and felsic intrusive in biotite schist. F2 folding is noted in the schist between ultramafic boudins.....	25
Figure 12. Vertical face of a biotite schist outcrop. Note the vein at the bottom is isoclinally folded with parasitic S and Z folds. The fold limbs are parallel to the dominant F1 foliation. Also note the tapered boudins of felsic material.....	26
Figure 13. Megacrystic magnetite crystal found in certain generations of felsic intrusive. These magnetic felsic intrusions are responsible for certain magnetic features visible in the TMI RTP.....	27
Figure 14. Overview of 2021 and 2022 trenches .....	28
Figure 15. 2022 North Trench .....	29
Figure 16. 2022 South Trench .....	30
Figure 17. Drill hole locations and the drilled claims during the 2022 diamond drilling program .....	31
Figure 18. One centimetre-wide mafic band folded in biotite schist in QTBL0010 at 111.15 m depth. ...	34
Figure 19. A foliated gabbro unit intersected at 133m in QTBL0010 .....	35
Figure 20. Brecciated diorite dominated by clasts of plagioclase feldspar in a biotite-chlorite matrix ....	35
Figure 21. Diabase unit in QTBL0011 at 30m depth. Note the very fine disseminations of rusted pyrrhotite. ....	35
Figure 22. Felsic banding and carbonate veining in the biotite schist of QTBL0011 at 96 m depth. Many felsic bands are boudinaged and chlorite often forms replacement alteration halos around carbonate veins .....	36
Figure 23. Biotite schist country rock with carbonate veining and common felsic boudins. 25.5m depth in QTBL0012 .....	36
Figure 24. Mineralized metagabbro at a depth of 82.6m in QTBL0012 .....	36
Figure 25. Medium-coarse grained granite unit at a depth of 37.00 m in QTBL0013. ....	37
Figure 26. Chlorite alteration in coarse granite at 47.90 m in QTBL0013.....	37
Figure 27. Weakly mineralized tonalite at 206.16 m depth in QTBL0013 with 2% interstitial pyrrhotite and chalcopyrite.....	37
Figure 28. Biotite schist contact with a medium-grained bleached granite at 20m depth in QTBL0014... 38	



Figure 29. Blebby pyrite and disseminated pyrrhotite with chalcopyrite in feldspathic hornblendite unit at a depth of 50.52 m in QTBL0014 .....	38
Figure 30. Biotite schist with multiple orientation of carbonate veins. Note chlorite vein halos around the carbonate veins.....	39
Figure 31. Diabase unit at 30.60 m depth in QTBL0017. Weakly disseminated pyrrhotite is present in the diabase.....	39
Figure 32. Mineralized zone in bleached granite intruding the biotite schist at a depth of 97.30 m in QTBL0017. Sulphides fill the fractures and occur interstitially with biotite in the thin granite.....	40
Figure 33. Hornblendite with blebby pyrite and rare disseminated chalcopyrite at a depth of 25.68 m in QTBL0018.....	40
Figure 34. Unmineralized diabase at a depth of 30.52m in QTBL0018. ....	41
Figure 35. Mineralized mafic band parallel to foliation in the biotite schist at a depth of 197m in QTBL0018. ....	41
Figure 36. Mineralized sulphide breccia with pyrrhotite, chalcopyrite, and pyrite in hornblende gabbro at a depth of 46.00 m in QTBL0019. ....	42
Figure 37. Mineralization showing pyrrhotite and pyrite around ultramafic boudins at 46.30 m depth in QTBL0019.....	42
Figure 38. Metasedimentary biotite schist with partial chlorite replacement, irregular carbonate veins, and common felsic bands at 91.00 m depth in QTBL0019. ....	42
Figure 39. Felsic bands in fine-grained biotite schist at a depth of 37m in QTBL0020.....	43
Figure 40. Variably textured granite units in QTBL0020 at a depth of 128m. K-feldspar and plagioclase content varies as well as grain size and biotite occurrence. ....	43
Figure 41. Pyrite and pyrrhotite mineralization as rims on felsic boudin selvages at 204m depth in QTBL0021.....	43
Figure 42. Melagabbro unit featuring patches of pyrite and pyrrhotite mineralization at 15m depth in QTBL0021.....	44
Figure 43. Patchy to interstitial pyrrhotite and pyrite mineralization in a pegmatitic granite at 25.00 m depth in QTBL0021. ....	44
Figure 44. Diabase occurring in quartz diorite unit in QTBL0021. Diabase hosts 1% patchy pyrrhotite mineralization. ....	44
Figure 45. Mineralized zone of hornblende gabbro in QTBL0021 at 116.50m depth with massive to semi-massive Ni-Cu sulphides. ....	44

## List of Tables

Table 1:Project Staff.....	2
Table 2. Claim numbers, type, and activities undertaken in each claim .....	3
Table 3. Main lithology categories and codes with descriptions .....	9
Table 4. Drill core lithology photos. ....	13
Table 5. Summary of drillholes surveyed by downhole TDEM on the Baril Lake Project, 2022 .....	19
Table 6. Summary of downhole TDEM anomalies and associated modelled plates .....	20
Table 7. Drill hole collar location and depth .....	31
Table 8. Drillhole summaries.....	32
Table 9. Surface samples with assay values for elements of interest .....	45
Table 10. Number of samples collected per drillhole including standards, blanks, and duplicates.....	46
Table 11. Select assays for drillholes on the Baril Lake project .....	48

## Executive Summary

Following positive results from the 2021 trenching program, Rio Tinto Exploration Canada (RTECI) completed an exploration program in 2022 that consisted of geologic mapping, overburden stripping, diamond drilling and borehole EM surveys. The goal of the program was to gain a better understanding of the controls on nickel and copper mineralization and to test if the mineralized zone discovered during the 2021 trenching program extends in any direction.

The geologic mapping program occurred from May 18<sup>th</sup> to May 24<sup>th</sup> and was completed by RTECI employee and contractor geologists. The geologists spent 7 days traversing the property with a strong focus on a 1500m x 1000m area around the known mineralization at the 2021 trench collecting lithology data, structural measurements, and rock samples. The work completed greatly advanced the geological understanding of the area, particularly the observations that support the potential for remobilized sulphides.

Overburden stripping occurred from June 20<sup>th</sup> to June 24<sup>th</sup> and was completed by Steve Ward Contracting Ltd. with a 300 series excavator. Two areas 300m to the west of the 2021 Main Trench were tested however the overburden was greater than 7m thick and bedrock was not reached. These areas were remediated. The 2022 North trench is located 25m west of the 2021 Main trench and the 2022 South trench is located 60m Southwest of the 2021 Main trench, both were excavated successfully. RTECI geologists collected detailed lithology information and structural measurements from the exposed bedrock. Observations from the 2022 trenches provided further evidence for the structural controls on sulphide mineralization that were noted during the 2022 geologic mapping program.

The diamond drilling program was completed from June 20<sup>th</sup> to August 7<sup>th</sup> by George Downing Estate Drilling Ltd. with a LF-70 drill rig. A total of 2152m was drilled over 12 holes. Borehole EM data was acquired from the drilled holes by Crone Geophysics & Exploration Ltd. using the Pulse EM downhole system. Using geologic data and borehole EM to assist with drillhole targeting, the mineralized zone discovered in the 2021 was extended by 520m to the west. Structural measurements from oriented core and observed textures add increasing evidence to support a model with remobilized nickel and copper sulphide mineralization. The best assays are 1.29m at 1.42% Cu, 0.86% Ni, 0.17g/t Pt and 0.07g/t Pd which includes 0.5m at 1.92% Cu and 1.4% Ni and 0.43g/t Pt and 0.13g/t Pd and 1.35m at 3.11% Cu, 0.75% Ni, 0.04g/t Pt and 0.02g/t Pd which includes 0.72m at 5.34% Cu and 1.3% Ni and 0.08g/t Pt and 0.03g/t Pd. Ni tenor within the best mineralized zones are >5%. Core processing including geological logging, sampling and cutting was completed in September 2022 and technical aspects of the assessment report were completed in November 2022.

Work included in this assessment report is pursuant to Exploration Permit PR-21-000353 for the Baril Lake project, received March 15, 2022 and PR-21-000251, received October 13<sup>th</sup>, 2021. For a full list of personnel involved see Appendix A. All project scale maps and coordinates are in UTM NAD83, Zone 15N.

Table 1: Project Staff

<b>Company</b>	<b>Name</b>	<b>Position</b>
RTECI	Lindsay McClenaghan	Principal Geoscientist
	Greg Galloway	Project Geoscientist
	Steve Pham	Geoscientist
	Christophe Hyde	Geophysicist
	Rob Varrin	Superintendent
	Dave Zuefle	Project Coordinator
	Mikko Keski-Pukkila	Project Coordinator
Bayside Geoscience	Connor Arts	Contract Geologist
	Nina Buchanan	Contract Geologist

## Location and Access

The Baril Lake project is located 115km west-northwest of Thunder Bay and 66km east of Atikokan north of Highway 11. The main access roads are Lily Lake Road and Boot Bay Road which span 30km from Highway 11 to the project area (Figure 1). The commute from the Highway to the project area is approximately one hour. Lily Lake road is maintained and of good quality, Boot Bay Road is not maintained but in good condition. The project area is accessible by light truck and large flatbed vehicles during spring and summer.

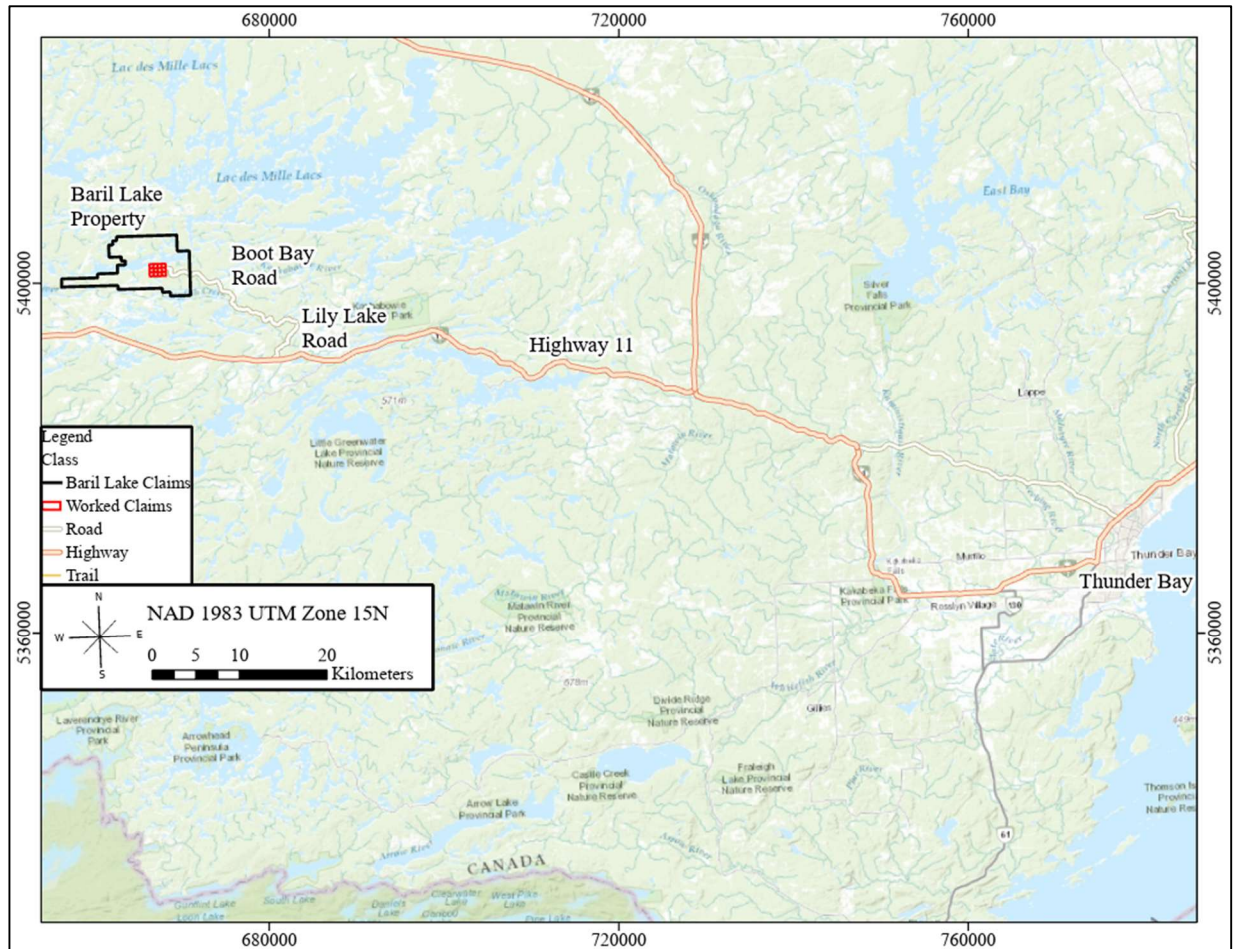


Figure 1. Map showing the location of the Baril Lake property and access route relative to Thunder Bay

## Property Status

The 2022 Baril Lake Exploration Program focused on twelve 21 Ha claim units, representing 252 Ha total. These claims are outlined in the figure below, and the type of work that occurred in these claims is listed in the table below (Table 2, Figure 2). Activities undertaken on these claims are covered in the Ministry of Energy, Northern Development and Mines Exploration Permit Number PR-21-000353 and PR-21-000251.

Table 2. Claim numbers, type, and activities undertaken in each claim

Claim Number	Type	Claim Holder	Township	Activities Undertaken
114874	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
126319	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
156126	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
172206	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.

172207	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
221572	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
228330	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping, Diamond Drilling (QTBL0011, 0012, 0016, 0017, 0019, 0020), Overburden stripping.
275543	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
275544	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping, Diamond Drilling (QTBL0018, 0021).
311978	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.
311979	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping, Diamond Drilling (QTBL0010, 0013, 0014, 0015).
324194	Single Cell Mining Claim	Rio into Exploration Canada Inc. (100%)	Brule Lake	Field Mapping.



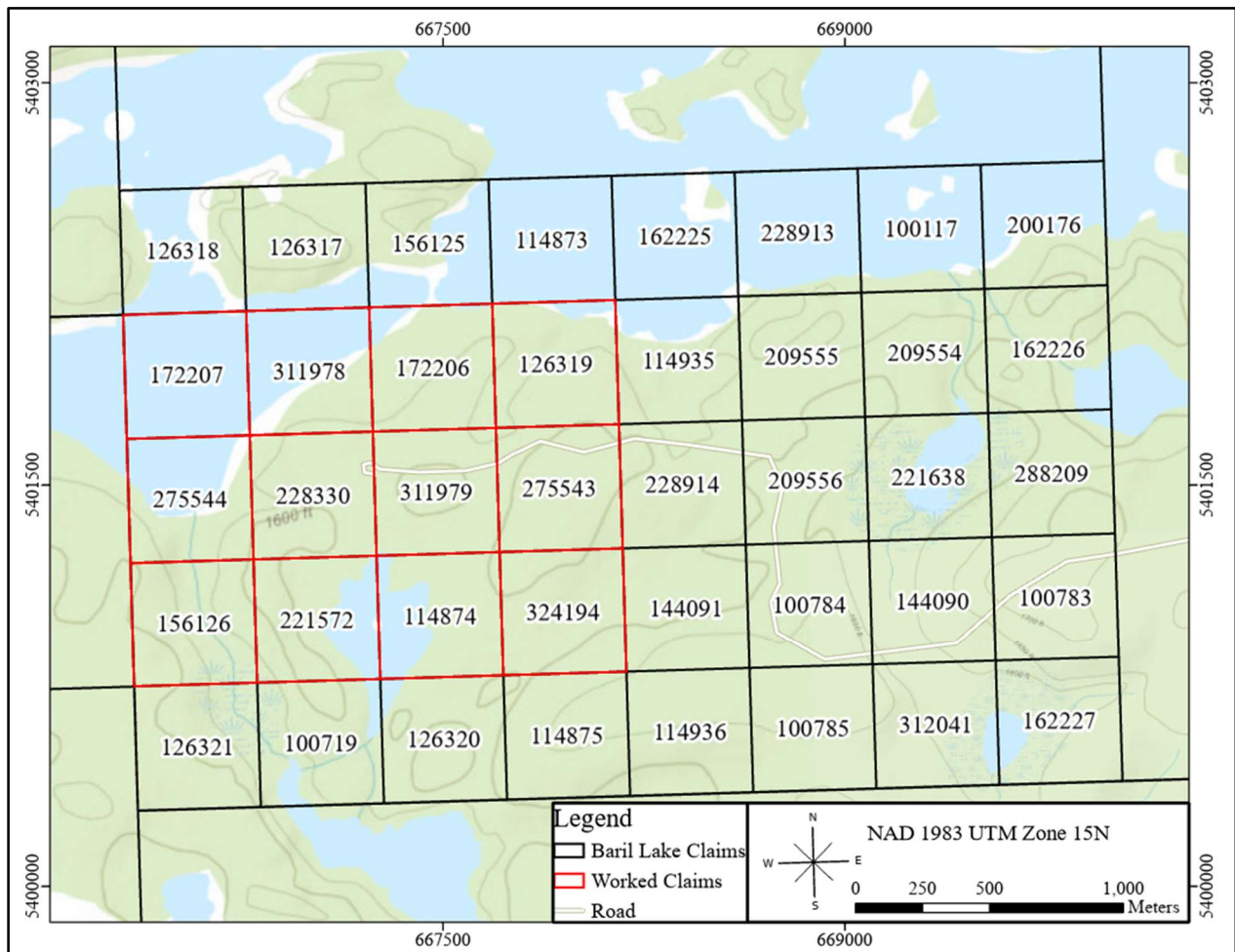


Figure 2. Worked claims with road for location reference

## Previous Work

Until 2018, no significant exploration work had been done on the property. The most detailed bedrock mapping in the area was completed by Irvine in 1960, in the 1:63,360 scale map 2022 Western Lac des Mille Lacs Area, from the Ontario Department of Mines.

In 2018, RTECI drilled six diamond drill holes on the property for a total of 708 m. A thin intersection of massive sulphide was encountered in one hole with the best intersection being 2 m grading 4.78% Ni, 0.43% Cu, and 0.26 g/t PGE. (AFRID20000017073)

In 2019, RTECI completed a geological mapping and prospecting program. This program follows up on the discovery of small, high-tenor pods of Ni-Cu-PGE mineralization identified in diamond drill holes completed in 2018. Mapping and sampling focused on newly acquired claims, especially in the southwestern portion of the claim block which cover distinct magnetic anomalies. The main objectives of the mapping program were to: i) identify the lithologies associated with distinct magnetic anomalies that extend west of previous drilling, ii) build a greater understanding of the structural history of the area, and

iii) expand on the existing geochemical dataset with the goal of identifying mafic/ultramafic units that may be responsible for the mineralization observed. (AFRID 20000017925)

In 2021, RTECI completed an overburden trenching program and ground EM survey program. The trenching program was designed to uncover the contacts of known ultramafic intrusive units to gain additional geologic information and to target a near surface EM and magnetic anomaly. The 2021 Main trench uncovered massive sulphide mineralization, including a 7.1m channel sample grading 2.12% Ni and 2.52% Cu. A ground electromagnetic (EM) survey was completed to obtain high resolution data around the known ultramafic intrusive and mineralization discovered in the 2021 Main trench. (AFRID 20000020884)

## Regional Geology

Baril Lake is in the Archean metasedimentary Quetico subprovince which is bound between the southern Wawa and northern Wabigoon subprovinces (Figure 3). The most common lithologies in the Quetico are turbidite-derived metasedimentary rocks such as biotite schist and migmatites, as well as felsic intrusions such as pegmatites and granite. Most rocks have been metamorphosed to between greenschist facies and upper amphibolite facies, however many late-stage intrusions are present that show little to no metamorphism. There are several Alaska/Ural type zoned mafic-ultramafic intrusions named the Quetico Intrusions that tend to occur along the northern Quetico boundary with the Wabigoon subprovince. The Quetico Intrusions have shown a known association with Cu-Ni-PGE mineralization that is of interest to RTECI.



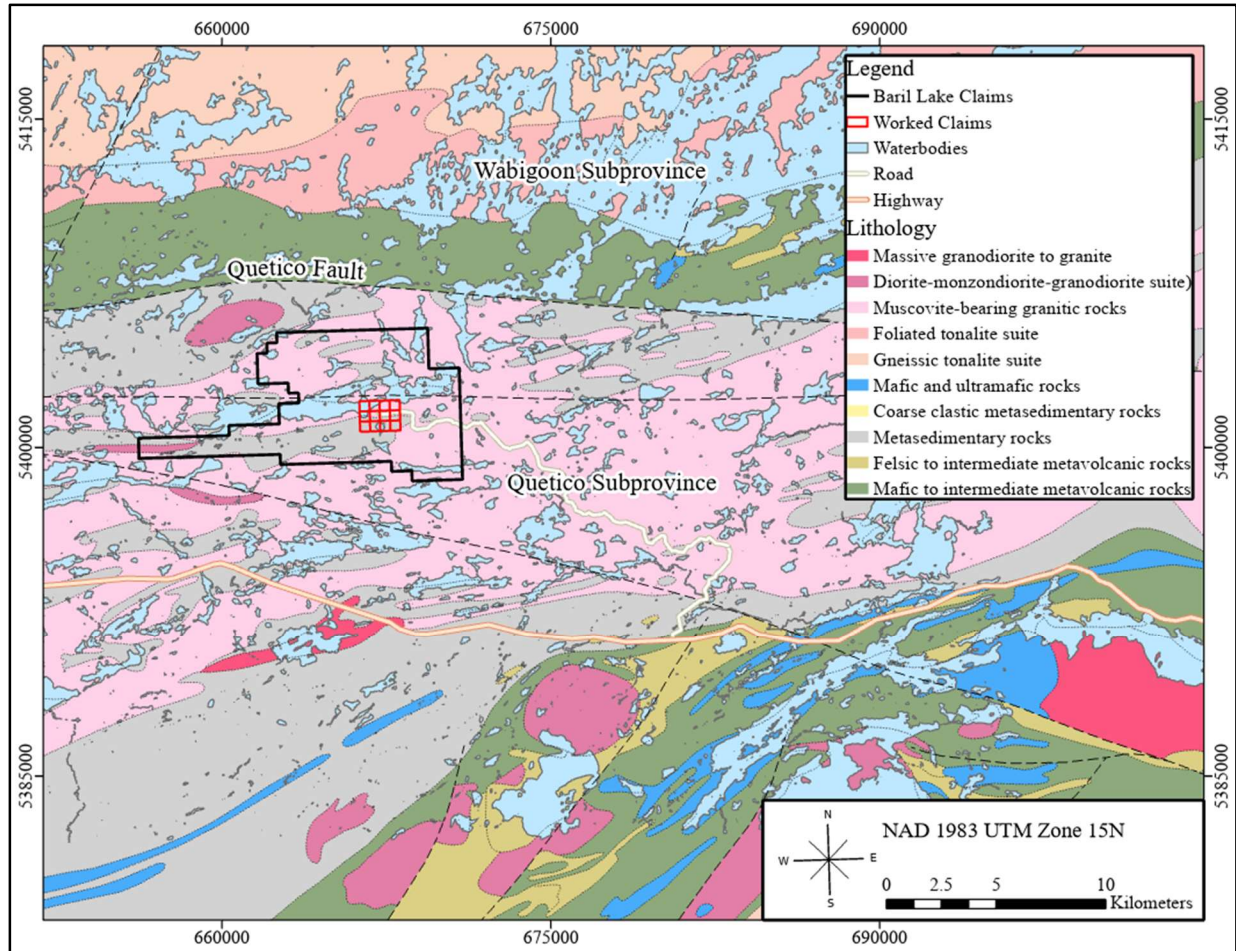


Figure 3. Regional Geology with the Baril Lake Project highlighted

## Property Geology

The Quetico-style ultramafic intrusion at Baril Lake occurs within turbidite-derived fine to medium-grained biotite-rich schist. Geologic mapping of the area has shown that the metasedimentary units are strongly foliated and exhibit ductile deformation. The ultramafic intrusion occurs as pods distributed parallel to dominant NE-SW foliation. Larger pods of ultramafic intrusive generally consist of coarse hornblendite and do not appear to have any internal deformation. Smaller ultramafic intrusive pods and the margins of the larger intrusive pods appear to have weak, concentric geochemical differentiation with more ultramafic units at the core. The differentiated units exhibit deformation consistent with the dominant regional foliation. The dominant regional foliation in the metasediments has been observed wrapping around the larger ultramafic bodies. These observations are consistent with a geologic model where the ultramafic intrusion was deposited prior to major deformation events and subsequently boudinaged into the current orientation.

Nickel and copper sulphide mineralization is closely associated with the pods of boudinaged ultramafic intrusions distributed along the NE-SW foliation. Most ultramafic units are barren or weakly mineralized, but Ni-Cu sulphides are generally observed in the pressure shadow of the more competent ultramafic boudins. There is also evidence for the remobilization of Ni-Cu sulphide into adjacent metasediments and

felsic intrusive units that are along strike form ultramafic rocks. The Ni-Cu mineralization trend first identified in the 2021 Main trench has been extended 520 m to the West along foliation and is still open further to the west.

The metasediments in the area have been cut by several generations of felsic and mafic intrusions. These intrusive units can be both magnetic and non-magnetic and exhibit varying degrees of deformation. There is no evidence to indicate these intrusive units are associated with Ni-Cu sulphide mineralization.

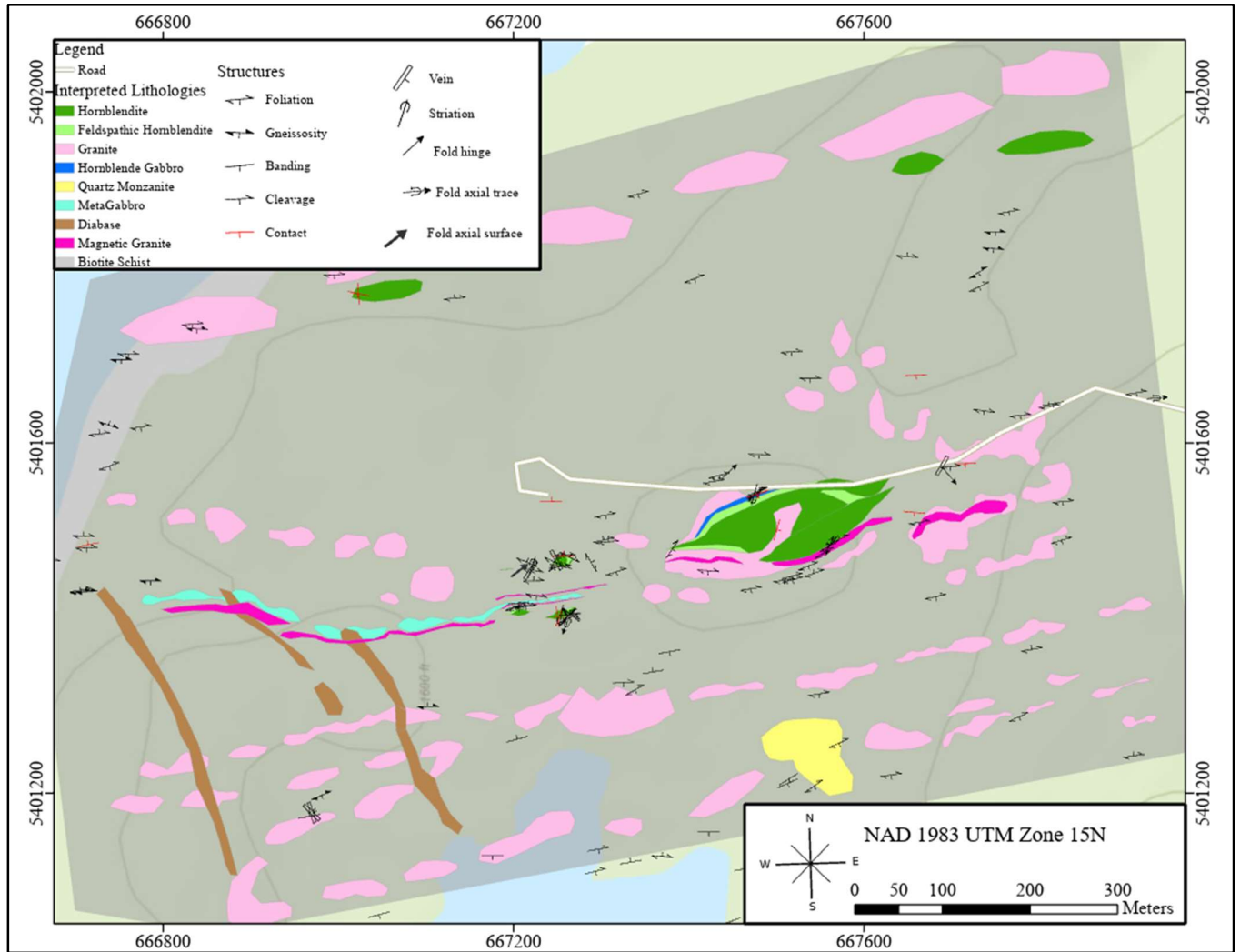


Figure 4. 2022 Baril Lake surface geological interpretation with structural measurements.

Table 3. Main lithology categories and codes with descriptions

Group	Lithology	Lith Code	Description of Unit
Metasedimentary units	Metasediment / Biotite Schist	SED	Generally fine grained, turbidite-derived schist composed of quartz, biotite, feldspar, rare garnet, and pyrite with biotite content ranging from 20%-45%, averaging 35% biotite content. Unit is non-magnetic, with SI most commonly between $0.30 \times 10^{-3}$ and $0.45 \times 10^{-3}$ . The biotite schist defines the regional foliation of the Quetico metasedimentary belt with very common planar banding in the unit dipping 75-89° to the south. Unit is commonly cut by carbonate and quartz veins. Chlorite alteration is common, especially where carbonate veins and replacement has occurred. Typically pyrite rich, oftentimes containing 1-2% disseminated pyrite, the unit is often banded with felsic, intermediate, and mafic intrusive units that pinch and swell into boudins.
Intermediate to Felsic Intrusive	Granite	GRT	Generally medium to coarse-grained, mostly non-magnetic, and contains variable amounts of biotite (0-25%) and magnetite (0-10%). The most common SI values for the granite units are between $0.01 \times 10^{-3}$ and $0.05 \times 10^{-3}$ . Some minor magnetic granite units are present and may exhibit up to $210 \times 10^{-3}$ SI where they contain stringers or clusters of magnetite. Units are typically massive, and biotite is often interstitial between coarser feldspar phenocrysts (k-feldspar and plagioclase). These granites generally show sericitization as the primary alteration and are pink to light pink in color, but also exhibit some rare saussuritization. Mineralization is scarce and characterized by secondary interstitial sulphides. Biotite selvages may form around coarser feldspars. Units generally occur as thicker intrusions cross-cutting the biotite schist and as sill-like structures.
	Bleached Granite		The bleached granite units are very similar to the normal granite units, with major differences being their mode of occurrence and alteration styles. These units are rarely magnetic and show the same SI values as the regular granite unit. Both major feldspars (k-feldspar and plagioclase) present. Saussuritization is abundantly visible in this lithology and sericite is common. These units often occur as centimeter- to meter-thick bands in the biotite schist and contain scarce mineralization typically present as selvages and fine disseminations. K-feldspar is significantly






			bleached, imparting a whiter color to the lithology than the other granite suite.
	Granitic Pegmatite		The granitic pegmatites are the same composition as the normal granites with the only significant difference being crystal size. Pegmatites can be both bleached and non-bleached and are oftentimes magnetic. Biotite is often present in book form. The pegmatites can also contain magnetite, resulting in localized high SI values $>100 \times 10^{-3}$ , but are more commonly non-magnetic with SI values like the regular granite units. Mineralization in the granitic pegmatite is uncommon but can occur as finely disseminated sulphides or as selvages like the bleached granites.
	Granodiorite	GRD	Granodiorite units are intermediate to felsic in composition, fine to medium grained, and characterized by their migmatitic appearance within the host schist. SI values for this unit generally range from $0.03 \times 10^{-3}$ and $0.10 \times 10^{-3}$ . These units contain higher quantities of biotite and scarce mineralization occurring as disseminated pyrite. Biotite can take on the characteristic book form but also occurs in bands in a few granodioritic units. It is thought that these units could be partially re-melted schist due to their spatial relationship.
	Tonalite	TON	Tonalite is generally rare in the Baril Lake suite and can be easily mislabeled as a bleached granite or a quartz diorite due to appearance and compositional similarities. The tonalite suite is defined by a lack of K-feldspar (identified by a lack of variability in alteration compared to bleached granite) and high presence of quartz in the rock (more so than quartz diorite). Common SI values for the tonalites range between $0.02 \times 10^{-3}$ and $0.04 \times 10^{-3}$ . Units can contain 0-20% biotite and are predominantly non-magnetic. Mineralization is scarce. May also occur in diffuse partial melted zones with ultramafic units.







	(Quartz) Diorite	DIO	Diorite units are less common than the granitic and granodioritic units observed on the property. SI values for this unit tend to be between $0.14 \times 10^{-3}$ and $0.16 \times 10^{-3}$ . The lithology is typically medium-grained, with variable biotite content (20-40%) and is often cross-cut by granite units. These units are weakly to moderately foliated and are rarely mineralized. Lithology can be chloritized if biotite content is high enough.
	Breccia	BXX	Breccias may form along contact zones between felsic-intermediate units and the metasedimentary country rock. The breccia unit contains medium to coarse grained plagioclase crystals as clasts in a fine to very-fine biotite-chlorite clast matrix with trace pyrite. Contacts are sharp. The only major occurrence of the breccia unit is in QTBL0010 with an SI value of $0.323 \times 10^{-3}$ . The BXX lithology code does not include sulphide breccia.
Mafic Intrusive	Diabase	DIAB	The diabase unit is a new unit discovered during the 2022 diamond drilling program. This lithology generally occurs as 1-3m thick intrusions in the biotite schist country rock. It is characterized by its very fine grain size, rusty brown weathering, dark color, and magnetic properties that distinctly separate it from other mafic lithologies. SI values for the diabase predominantly range between $35 \times 10^{-3}$ and $40 \times 10^{-3}$ and are frequently $40 \times 10^{-3}$ . Mineralization is variable, with units containing between 0 and 3-5% disseminated to blebby rusted pyrrhotite and chalcopyrite. The lithology can also contain xenoliths of the neighboring felsic units it intrudes.
	(Meta)Gabbro	GAB	Gabbro units are predominantly medium to coarse grained with hornblende and biotite as mafic components. The intrusions tend to be moderately to strongly foliated, with the fabric oriented at a similar trend to the regional foliation. The unit is predominantly magnetic, with SI values between $8 \times 10^{-3}$ and $20 \times 10^{-3}$ SI. Here the term gabbro includes both leucogabbroic and gabbroic compositions as the two are often intergrown within neighboring felsic units. This lithology is of economic interest, either occurring proximal to ultramafic zones or hosting pyrrhotite and chalcopyrite mineralization.








	Melagabbro	MGB	The melagabbro unit, like the gabbro, is medium-grained, hosts mineralization, and contains hornblende and biotite as mafic minerals. The melagabbro lithology is differentiated from gabbro by more hornblende and less feldspar. Melagabbro intersected while drilling has variable SI values, ranging from $0.2 \times 10^{-3}$ to $8 \times 10^{-3}$ . The melagabbro can occur as up to 9-meter-long intrusions cross-cut by felsic intrusive units or as thin (cm- to m-scale) intrusions in the biotite schist. Mineralization in the melagabbro is similar to that of the gabbro.
	Hornblende Gabbro	HGB	The hornblende gabbro unit is of significant economic interest on the Baril Lake property as it can host mineralization and occurs proximal to ultramafic intrusions. This lithology tends to be fine to medium-grained and can be foliated and intermixed with biotite schist. Mineralization hosted within the unit can occur as sulphide breccia (QTBL0019) or as semi-massive sulphides (QTBL0021).
Ultramafic Intrusive	Feldspathic Hornblendite	FHB	Feldspathic hornblendite is a significant lithology of the eastern intrusion intersected by drill holes QTBL0013 & 14. It is medium to coarse-grained and magnetic susceptibility of the unit varies between drill holes ( $0.3 \times 10^{-3}$ and $0.5 \times 10^{-3}$ in QTBL0013; $0.6 \times 10^{-3}$ and $0.9 \times 10^{-3}$ ). Overall, the feldspathic hornblendite unit is nonmagnetic to weakly magnetic. Mafic minerals present in the unit consist of hornblende and biotite. Serpentine, calcite, and chlorite alteration are also present, along with fine to coarse grained plagioclase (5-10%). No notable mineralization was present in the drill holes that intersected this unit.
	Hornblendite	HBL	The hornblendite lithology is generally coarse to very-coarse grained and composed predominantly of hornblende (>80%), <10% biotite, and <5% interstitial plagioclase (fine to medium grained). Hornblendite occurs as sill-like intrusions in the metasedimentary country rock ranging from millimeters to hundreds of meters in thickness. The units intersected in drill core have SI values ranging from $0.3 \times 10^{-3}$ and $0.8 \times 10^{-3}$ . Along with hornblende gabbro, hornblendite is associated with significant mineralization at Baril Lake. Mineralization in the hornblendite suite consists of disseminated and blebby, up to net-textured and semi-massive sulphides formed through metamorphic remobilization.

Table 4. Drill core lithology photos.

Lithology	Photo	
Metasediment/Biotite Schist (QTBL0010, 90.50m)	Wet	
	Dry	
Granite (QTBL0010, 137.00m)	Wet	
	Dry	
Bleached Granite (QTBL0015, 71.50 m)	Wet	




	Dry	
Granitic Pegmatite (QTBL0020, 118.00 m)	Wet	
	Dry	
Granodiorite (QTBL0019, 109.00 m)	Wet	
	Dry	
Tonalite (QTBL0012, 116.00 m)	Wet	



	Dry	
(Quartz) Diorite (QTBL0021, 42.50 m)	Wet	
	Dry	
Breccia (QTBL0010, 145.50 m)	Wet	
	Dry	

<p>Diabase (QTBL0020, 29.00 m)</p>	<p>Wet</p>	
	<p>Dry</p>	
<p>(Meta)Gabbro (QTBL0019, 98.00 m)</p>	<p>Wet</p>	
	<p>Dry</p>	
<p>Melagabbro (QTBL0013, 132.50 m)</p>	<p>Wet</p>	
	<p>Dry</p>	



<p>Hornblende Gabbro (QTBL0014, 44.00 m)</p>	<p>Wet</p>	
<p>Feldspathic Hornblendite (QTBL0013, 135.00 m)</p>	<p>Dry</p>	
<p>Hornblendite (QTBL0014, 53.00 m)</p>	<p>Wet</p>	



## TDEM Geophysical Surveys

### Downhole TDEM Survey

A downhole time-domain electromagnetic (TDEM) survey was completed by Crone Geophysics on the Baril Lake property from July 8<sup>th</sup> to August 9<sup>th</sup>, 2022. The purpose of the survey was to delineate the continuity of conductors observed in a 2016 HeliTEM survey and a 2021 ground Crone Pulse TDEM survey carried out in 2022 over the area. The equipment used consists of the Pulse-EM CDR4 Receiver, the Pulse-EM Transmitter, and the Pulse-EM downhole probes. The downhole induction coil measures the time rate of change of the magnetic field components (X, Y and Z) at each station. The equipment is described in greater detail in *Appendix B: Geophysics Survey & Logistics Report July and August 2022*. The measurement units are in nanoTeslas per second (nT/s). Noise levels at late time are considered to be around 1 nT/s although may vary depending upon hole and site conditions. Eleven (11) drillholes were surveyed using three transmitter loops, approximately 300 m x 300 m in size. X-, Y- and Z-component data were collected at each station, typically with 10m station spacing with 5m detail stations in anomalous zones, using a 16.66 ms time base. Drill hole locations and orientations are summarized in Table 5. The total distance surveyed was 8.325 km. Table 6 summarizes the survey line details.

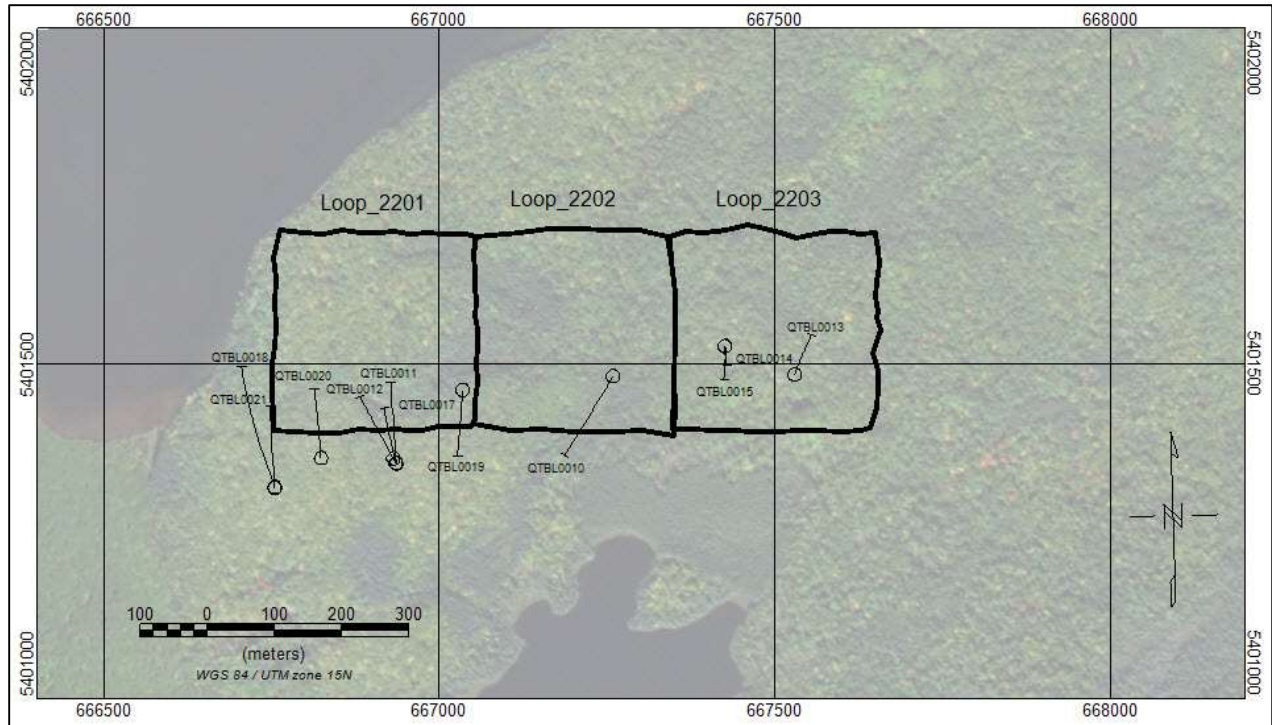


Figure 5. Downhole TDEM surveys 2022, Baril Lake

Table 5. Summary of drillholes surveyed by downhole TDEM on the Baril Lake Project, 2022

HoleID	Surveyed Length	Loop Used	Current	Component
QTBL0010	185 m	2202	20 A	XYZ
QTBL0011	125 m	2202	20 A	XYZ
QTBL0012	125 m	2202	20 A	XYZ
QTBL0013	135 m	2202	20.5 A	XYZ
QTBL0014	55 m	2202	20 A	XYZ
QTBL0015	155 m	2202	20 A	XYZ
QTBL0017	115 m	2202	20 A	XYZ
QTBL0019	120 m	2202	20 A	XYZ
QTBL0020	325 m	2202	20 A	XYZ
QTBL0021	150 m	2202	20 A	XYZ

### Interpretation of the TDEM Data

The objective of the 2022 TDEM surveys is to identify anomalous zones associated with sulphide mineralisation beyond what was discovered during the 2018 drill program. On the Baril Lake project, anomalous responses are attributed to conductive sulphide-bearing mineralised horizons. The felsic and mafic intrusive units are expected to be electrically resistive, as are the interbanded metasedimentary rocks. Mid- to late-time anomalous responses were observed in eight out of the eleven holes that were surveyed.

The anomalies were all modelled with EMIT's Maxwell plate EM plate modelling program. These results are summarized in Table 6. All the conductors appear along a linear trend striking approximately ENE-WSW that plunges to the west.

Table 6. Summary of downhole TDEM anomalies and associated modelled plates

Line ID	Station Depth of Anomaly	Plate parameters	Comments
QTBL0010	20m and 55m	Size: 40x10x5m Cond: 200S Elevation: 430m and Size: 10x10m Cond-Thick:500S Elevation: 395m	Very high amplitude response near surface, <=25m modelled as thick plate with hole catching edge of conductor.  Small off-hole conductor observed at 55m with no corresponding sulphides.
QTBL0011	90m	Size: 47x34m Cond-Thickness: 382 S Elevation: 428m	Off-hole conductor observed at 90m depth with no clear association with mineralization.
QTBL0012	80-85m	Size: 39x33m Cond-Thickness: 388 S Elevation: 416m	Off-hole conductor observed with response peaking from 80-85m depth. Depth corresponds to increase in sulphides (3%).
QTBL0013	No anomaly		Corresponds to area with no large conductive ground EM response (2021 Survey).
QTBL0014	No anomaly		Corresponds to area with no large conductive ground EM response (2021 Survey).
QTBL0015	No anomaly		Corresponds to area with no large conductive ground EM response (2021 Survey).
QTBL0017	95m	Size: 40x40m Cond-Thickness: 367 S Elevation: 420m	In-hole conductor with peak response at 95m. Patchy Chalcopyrite reported at 97.5m (3%).
QTBL0018	150m	Size: 40x33m Cond-Thickness: 89 S Elevation: 396m	Off-hole conductor with peak response at 150m depth. No mineralization association.
QTBL0019	45m	Size: 36x52m Cond-Thickness: 600 S Elevation: 446m	Off-hole conductor with peak response at 45m depth. Anomaly associated with 15% Semi-Massive sulphides (mostly Chalcopyrite).
QTBL0020	10m	Size: 64x44m Cond-Thickness: 27 S Elevation: 438m	Off-hole conductor at surface, north of hole. Peak response at 10m. Minor disseminated sulphides in top 30m.
QTBL0021	120 m	Size: 40x35m Cond-Thickness: 89 S Elevation: 362m	Off-hole conductor with peak response at 120 m depth. Response associated with 72 cm of semi-massive sulphides. The off-hole nature of the response suggests there is a better conductor nearby.



## Discussion and Recommendation of Further Work

The downhole TDEM survey of 2022 mirrors the results of the ground TDEM survey conducted in 2021:

1. The interpreted conductors are observed along a linear trend with an ENE-WSW that plunges to the west.
2. The conductors appear to cluster in two regions, an eastern region not explored in 2022 and a western cluster tested with eight drillholes (QTBL0010, QTBL0011, QTBL0012, QTBL0017, QTBL0018, QTBL0019, QTBL0020 and QTBL0021). The region associated with QTBL0013, QTBL0014 and QTBL0015 did not encounter any conductors as was the case with the corresponding ground EM survey.

The plunging nature of the linear trend of conductors towards the west leaves the conductive trend open in this direction. Since the conductors deepen in this direction, detection from the air or the ground is unlikely to provide TDEM anomalies. Further exploration could benefit from drillholes west of the current area of exploration followed up with DHEM surveys to detect missed conductors associated with mineralization.

It is worthwhile noting that the response of almost all the drillholes is off hole meaning that they missed their intended target. One exception is QTBL0017 which shows a clear in-hole response. It intersected its intended target, and this was considered a success. It was designed as a follow-up hole to QTBL0011 and QTBL0012. In contrast, hole QTBL0021 was a follow-up hole to QTBL0018. Since QTBL0021 was also off-hole, it missed the best portion of the conductor, although intersecting 72 cm of semi-massive sulphide. The implication is that these conductors are small, discontinuous, and correctly intercepting the mineralization is challenging. The discontinuous nature is supported by the trenching work completed on surface where mineralization appears to concentrate in boudin structures.

## Geological Mapping

Detailed geological mapping at the Baril Lake project area was undertaken from May 18<sup>th</sup> to May 24<sup>th</sup>, 2022. The total area mapped (1.01 square kilometers) focused around the areas of known ultramafic outcrops and known Ni-Cu mineralization – shown in Figure 4. The program was conducted by five geologists split into two teams that collectively traversed 32.1 km through the area of interest. Lithology information was collected from 274 stations and a total of 61 structural measurements were collected during the geological mapping program. Eleven outcrop samples were collected and subsequently sent for geochemical analysis. Location data was collected with handheld GPS units and smartphones using ESRI Field Maps software. Magnetic susceptibility data was collected from outcrops and boulders with Terraplus KT-10 units. In areas covered with glacial overburden, a Beep Mat device was used to identify magnetic outcrops and boulders. The Beep Mat is manufactured by Instrumentation GDD Inc. and is used to detect magnetic susceptibility and relative EM conductivity.

The objective of the mapping program was to improve the understanding of the geometry of Baril Lake intrusions and to better understand the controls on sulphide mineralization. Data collected during the mapping program was used in tandem with the ground magnetic survey completed in 2021 to generate a prospect scale geologic map and a model for mineralization that could be tested with drilling.

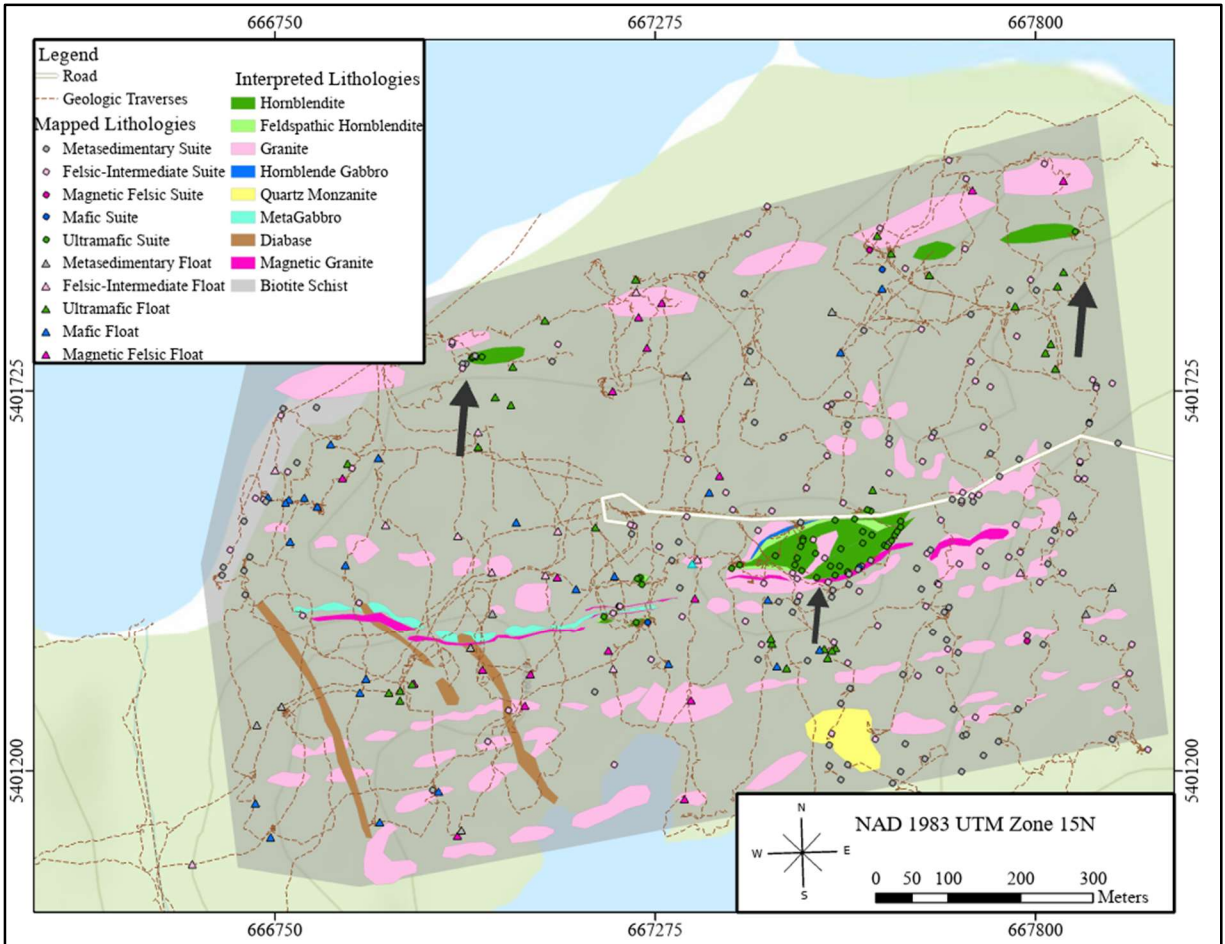


Figure 6. Baril Lake Geology map with lithology observation points and traverses

Consistent structural observations across the mapping area indicate there are two major deformation phases that may be contributing the remobilization of sulphide mineralization. Planar structural data from field observations are plotted on a stereonet in Figure 7. The points in the figure represent poles to measured foliation planes. The pattern is typical of very steeply dipping isoclinal folds, with the F1 fold hinges plunging gently to the East. The first phase of deformation is characterized by a very strong, pervasive foliation across the region. The planar foliation is best observed in metasedimentary units where the deformation is highly ductile and felsic and mafic intrusive phases that were emplaced prior to this deformation display boudinage parallel to the dominant foliation (Figure 8). The F1 foliation in the metasediments is often observed wrapping around the more competent intrusive boudins (Figure 9). It was noted that F1 foliations are deformed around the larger ultramafic intrusive outcrops in the area as well.



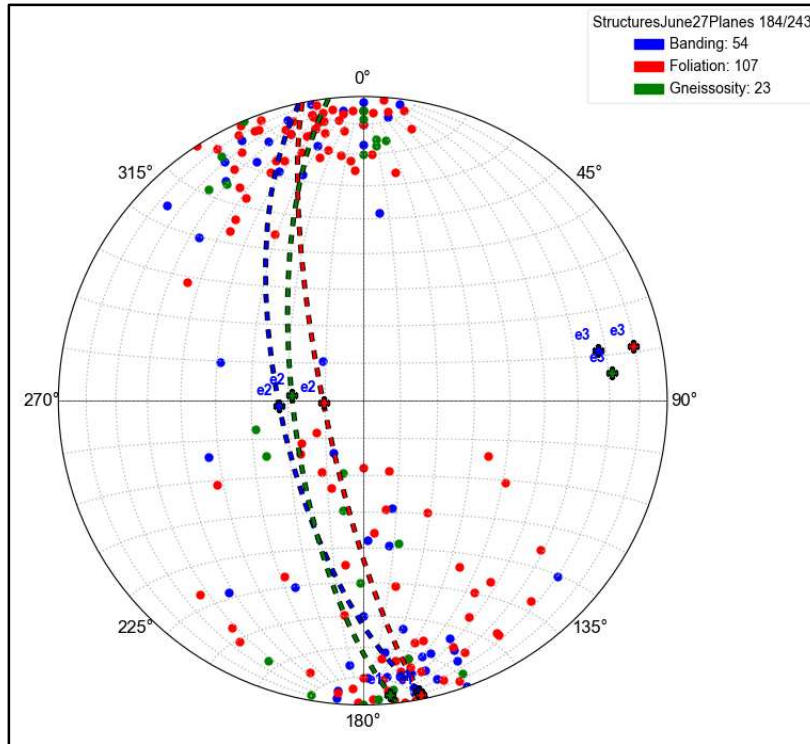


Figure 7. Structural measurements from mapping program plotted on a stereonet. The points represent poles to the planes of measured structural features. This pattern highlights a dominant F1 foliation that is isoclinally folded with folds plunging gently east.



Figure 8. Boudined ultramafic sill in biotite schist. Boudinage is visible in the X-Y direction along F1 foliation and in the Z direction.



Figure 9. Boudined ultramafic sill in biotite schist. Note concentration of felsic material the tip of the boudins and the deformed F1 foliation in the less competent schist that wraps around the more competent ultramafic.

Planar structural data from field observations are plotted on a stereonet in Figure 7. The points in the figure represent poles to measured foliation planes. The pattern is typical of very steeply dipping isoclinal folds, with the F1 fold hinges plunging gently to the East. This is consistent with field observations. The initial deformation is interpreted as a strong compressional event with an associated greenschist facies metamorphic grade.

The second deformation phase is characterized by offset folds in the F1 foliation. The geometry of these folds indicates dextral movement along the F1 foliation (Figure 10). This deformation is seen primarily in the metasediments and is again very ductile. Previously existing intrusive boudins do not display effects of the transitional movement but the metasediment between them can be very strongly folded (Figure 11). Syn- and post-deformational intrusions exploit a plane of weakness along the F2 axial surface. In areas where F2 folds are commonly observed, metasedimentary units locally have migmatitic textures typical of rocks subjected to amphibolite- to granulite facies metamorphism (Figure 12). The second deformation event is interpreted to be the continuation of the initial F1 compressional event. Towards the peak of the compression there is evidence for dextral translation, indicating a transpressive environment. Migmatite textures indicate the metamorphic grade had increased locally to granulite facies.





Figure 10. Biotite schist displaying F2 fold pattern with dextral movement. The felsic intrusive at the bottom of the photo has injected into the biotite schist along the plane of weakness parallel to the F2 fold hinge.



Figure 11. Boudined ultramafic sill and felsic intrusive in biotite schist. F2 folding is noted in the schist between ultramafic boudins.





Figure 12. Vertical face of a biotite schist outcrop. Note the vein at the bottom is isoclinally folded with parasitic S and Z folds. The fold limbs are parallel to the dominant F1 foliation. Also note the tapered boudins of felsic material.

The high pressure and temperature regime during these deformation events has resulted in remobilized Ni-Cu sulphides. The mineralization is often found along the foliation plane proximal to ultramafic intrusions and accumulates in low pressure areas. The low pressure areas in this system are interpreted to be around boudin tips or in the hinges of the F2 folds. Future mapping with follow up drilling is recommended to test for areas favourable for accumulated Ni-Cu sulphides.

Additional results from the mapping campaign include a more detailed understanding of the property geology and boulder prospecting that led to the discovery of two new ultramafic outcrops. Using the ground magnetic data collected in 2021 to assist in the interpretation, the property geology map was refined to include magnetic units identified both at surface and underground. Large linear and folded magnetic features were found to be magnetite bearing granite dykes (Figure 13), along with a magnetic metagabbro identified in the trenching program and late-stage magnetic diabase dykes identified during the drilling program.

New ultramafic outcrops were discovered 400 m north of the 2021 Main trench through boulder prospecting and the use of Beep Mat used to identify magnetic features. Glacial striae measured on bedrock indicate an ice flow direction toward the south ( $176^\circ$ ). This information was used successfully to follow ultramafic boulder trains to previously undiscovered ultramafic outcrops in two locations (Figure 6). No mineralization was noted but further follow up around the new outcrops is recommended.



Figure 13. Megacrystic magnetite crystal found in certain generations of felsic intrusive. These magnetic felsic intrusions are responsible for certain magnetic features visible in the TMI RTP.

## Overburden Stripping

From June 20<sup>th</sup> to June 24<sup>th</sup>, 2022, four areas were stripped of overburden using an excavator. Bedrock was washed with a water pump and fire hose before being mapped in detail. An Arrow Series RTK GNSS receiver from Eos Positioning Systems Inc. connected to a smartphone with ESRI Field Map software was used for digital GPS mapping of the trenches. The objectives of the overburden stripping program were to explore the western magnetic anomaly where no outcrop had been observed, and to explore the geometry of the 2021 Main Trench and verify if Ni-Cu mineralization continued to the west.

The first two trenches encountered overburden thicker than seven metres, which was the effective depth limit for the model of excavator. The first attempted trench location (at 667021E and 5401365N) only intersected glacial sediments and the second attempted location (at 666932E and 5401340N) intersected bedrock at approximately seven metres but was not investigated by geologists due to an unsafe slope. Both trench sites have been remediated. The overburden in the area was found to be weakly magnetic with magnetic susceptibility readings around  $2 \times 10^{-3}$  and  $5 \times 10^{-3}$ . A third trench, subsequently referred to as the 2022 North Trench, is located at 667221E 5401452N immediately west of the 2021 Main Trench (**Error! Reference source not found.**). A total of 773 m<sup>2</sup> of vegetation was stripped to uncover 200 m<sup>2</sup> of outcrop.



Stripping of the 2022 North Trench uncovered a small quantity of mineralization along strike of 2021 Main Trench. This mineralization is concentrated in a small (<0.25m) folded ultramafic unit with remobilization of Ni-Cu sulphides into a dilation zone. Thin veinlets of mineralization penetrate the surrounding metasedimentary biotite schist but the mineralization was not sufficient to warrant trench sampling. Boudins of granite and pegmatite were uncovered as well, with fine disseminations of chalcopyrite along the rims of the boudins. These observations are consistent with interpretations from the mapping program and are additional evidence that Ni-Cu sulphides have been remobilized during deformation associated with F1 and F2 folds. A dextral strike-slip fault is observed in this trench with brittle movement over approximately one metre of displacement. This is interpreted to be post-transpression as the fault is observed cross-cutting F1 and F2 features. The southern portion of the 2022 North Trench revealed a hornblende gabbro adjacent to a magnetic pegmatite with very coarse magnetite crystals. The hornblende gabbro has a fabric with a similar orientation to the regional foliation and hosts no mineralization (Figure 14).

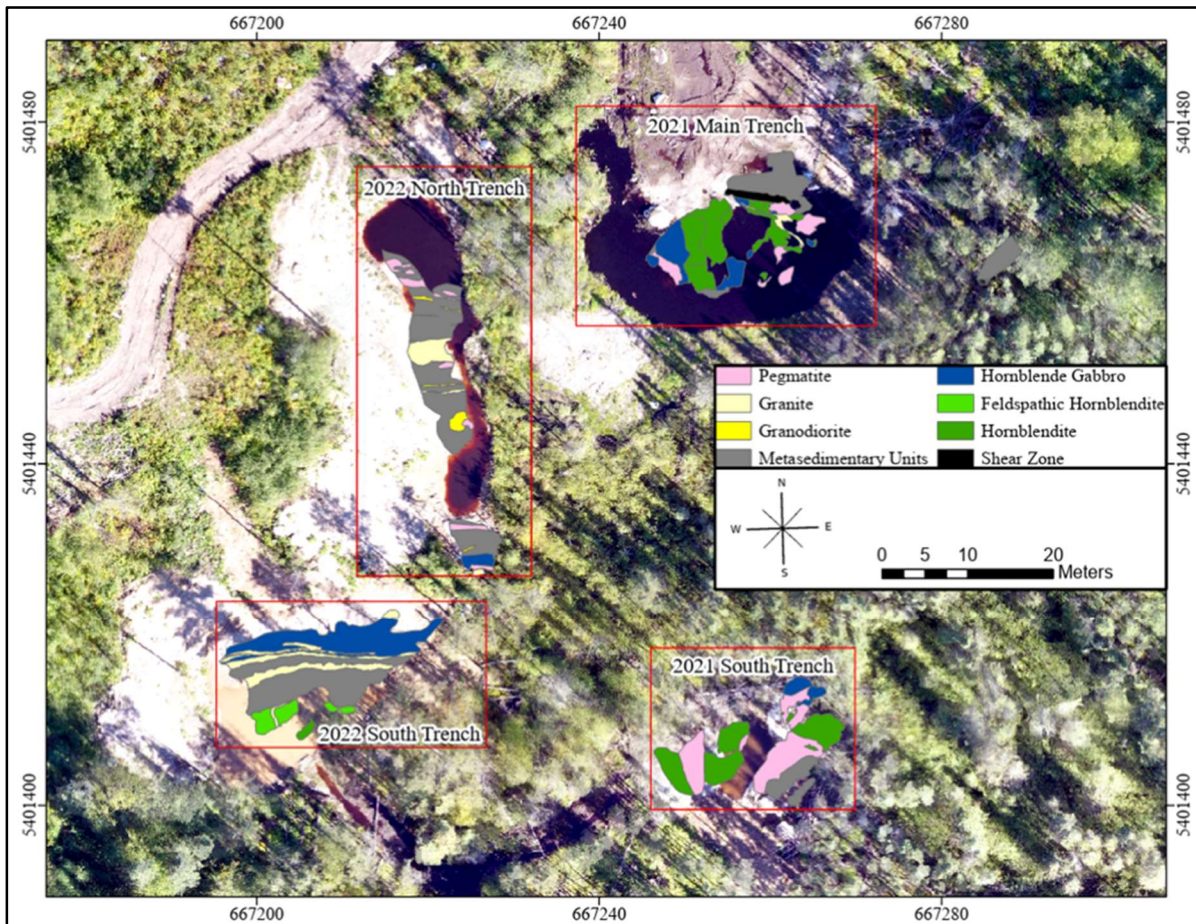


Figure 14. Overview of 2021 and 2022 trenches

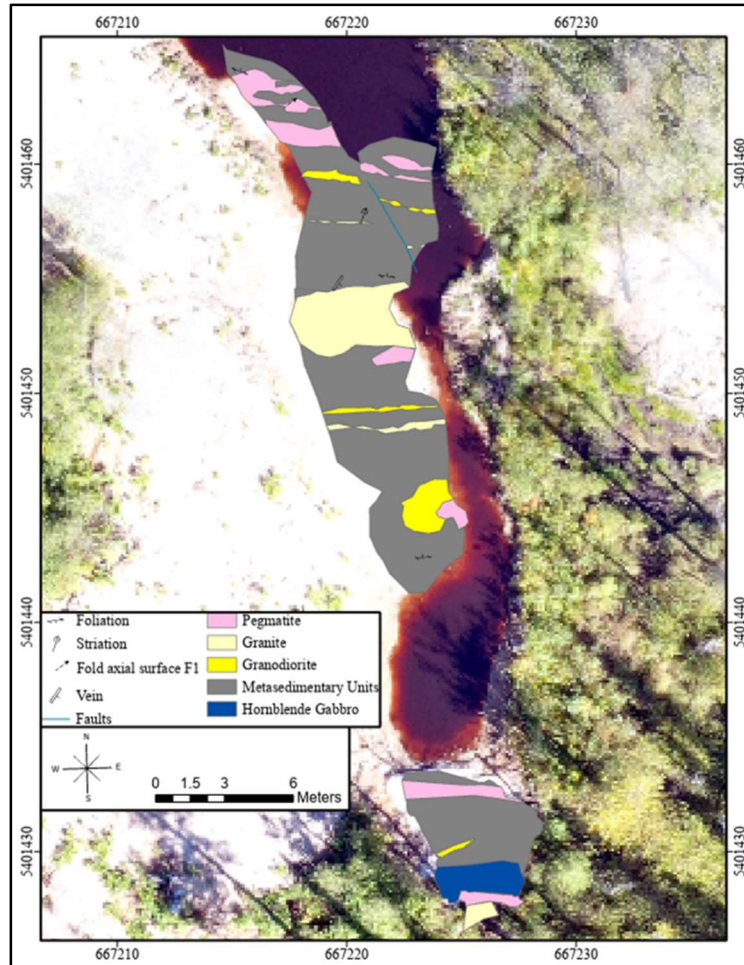


Figure 15. 2022 North Trench

The fourth trench, subsequently referred to as the 2022 South Trench, is located at 667203E 5401416N immediately south of the 2022 north trench. A total of 780 m<sup>2</sup> of vegetation was stripped to reveal 400 m<sup>2</sup> of outcrop. This trench did not uncover significant mineralization but did expose multiple mafic and ultramafic units hosting up to 0.75% disseminated sulphides. Unfortunately, very few Ni-Cu sulphides were present. These mafic and ultramafic units include hornblende gabbro with 0.5% disseminated pyrite, hornblendite with 0.5% disseminated pyrite, and feldspathic hornblendite with 0.75% disseminated pyrite and traces of chalcopyrite. Overall, mineralization was neither significant nor concentrated enough to warrant trench sampling (Figure 16).



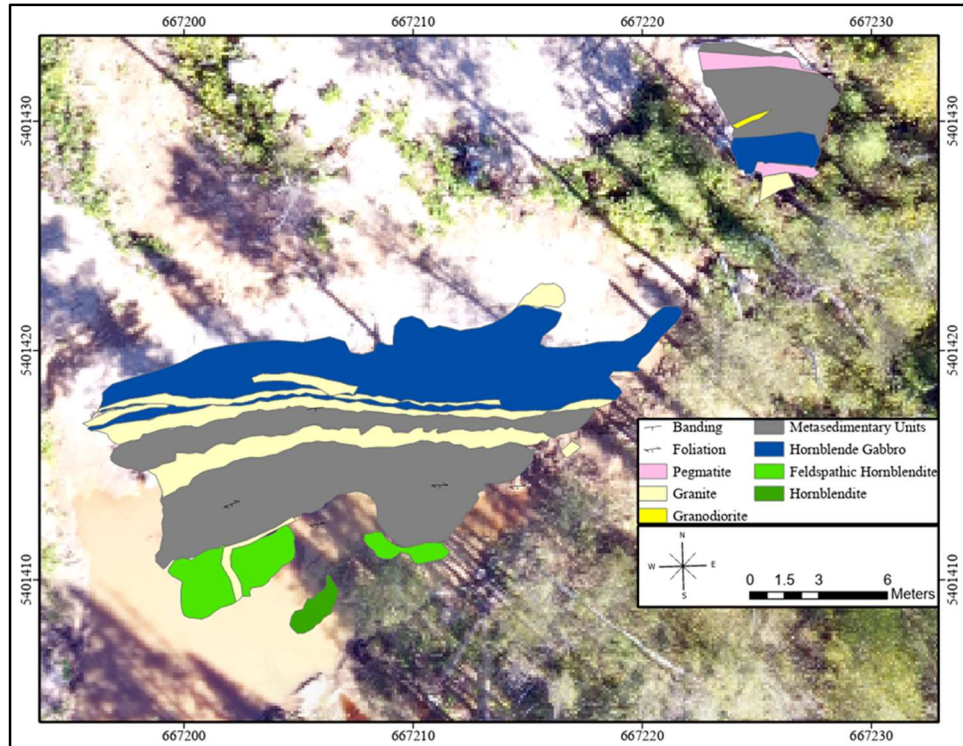


Figure 16. 2022 South Trench

The 2022 trenching program constrained the mineralization to the west of the 2021 Main trench and confirmed structural observations made during the mapping program. The 2022 North trench provided additional evidence for the remobilization of Ni-Cu sulphides along the strike of the dominant F1 foliation and into low pressure areas such as fold hinges. The trench also provided evidence that the larger outcrops of ultramafic intrusion are deformed in a similar manner to smaller intrusions observed throughout the property. A magnetic hornblende gabbro was also identified during the 2022 program that had not been previously seen at surface. This and the distinctly magnetic granite units mapped in the 2022 south trench were key observations in explaining magnetic anomalies identified during the 2021 EM survey.

## Diamond Drilling

The diamond drilling program began June 22<sup>nd</sup>, 2022 and concluded August 7<sup>th</sup>, 2022. A total of 2152.19 m was drilled over 12 drill holes. The work was completed by George Downing Estate Drilling Ltd. with a LF-70 drill rig with NQ-diameter drill rods. The core obtained during the program was oriented with an ACTIII tool to collect accurate structural measurements. Borehole EM data was acquired from the drilled holes by Crone Geophysics & Exploration Ltd using a pulse EM downhole sensor. Drill targets were selected based on a combination of ground and airborne EM anomalies guided by the new geologic information from the mapping and trenching programs.



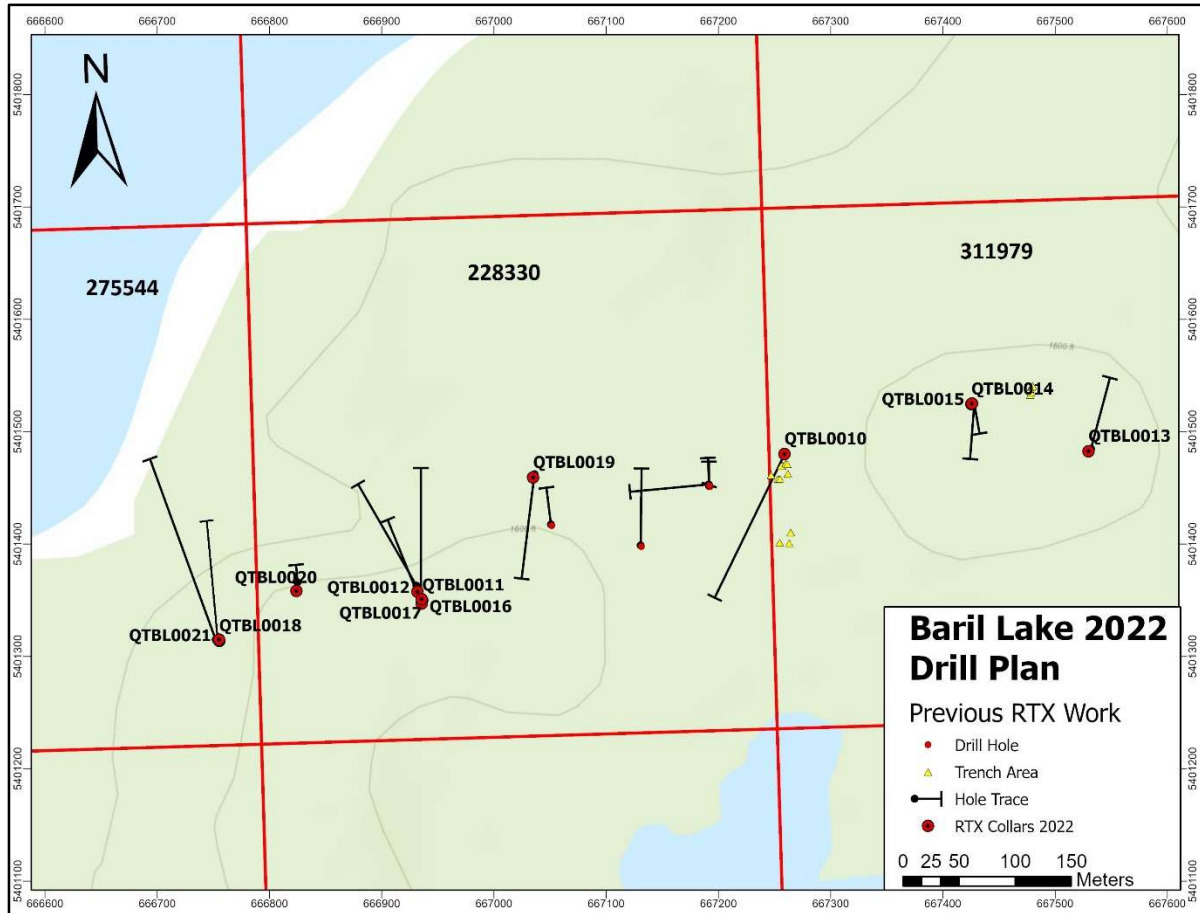


Figure 17. Drill hole locations and the drilled claims during the 2022 diamond drilling program

Table 7. Drill hole collar location and depth

Drill hole	Easting	Northing	Elevation (m)	Azimuth	Dip	Depth (m)	Days Elapsed
QTBL0010	667259	5401480	477.0	205	45	201.00	5
QTBL0011	666935	5401352	485.0	0	45	165.00	3
QTBL0012	666930	5401359	480.0	330	45	147.40	2
QTBL0013	667532	5401483	482.0	15	75	252.16	4
QTBL0014	667428	5401525	477.0	170	65	64.30	1
QTBL0015	667428	5401525	477.0	170	75	177.00	3
QTBL0016	666935	5401348	480.0	338	63	24.00	1
QTBL0017	666937	5401351	480.0	338	54	135.00	2
QTBL0018	666751	5401317	479.8	340	60	345.00	6
QTBL0019	667036	5401462	476.0	180	45	134.10	2
QTBL0020	666825	5401366	479.6	355	75	339.23	5
QTBL0021	666755	5401317	479.7	351	46	168.00	3

Table 8. Drillhole summaries

Drill hole	Total Depth (m)	Target	Comments
QTBL0010	201.00	Targeted directly under the main mineralized trench to test the extent of mineralization at depth as well as the extent of the ultramafic intrusion. The secondary target of this hole was to test the down-dip extensions of the intrusion exposed by the south trench.	Common mineralized veins in biotite schist occurred directly below the main trench, suggesting the mineralized trench may boudin vertically before a depth of 20m. The hole successfully intersected the down-dip extensions of pegmatite and the southern intrusion.
QTBL0011	165.00	The purpose of this hole was to target an EM conductor which had been interpreted to possibly be another ultramafic boudin with associated Cu-Ni mineralization further west along strike of the known ultramafic bodies.	A new geologic unit in the project area was identified in this hole - a fine-grained, highly magnetic mafic intrusive labelled as a diabase. No outright explanation for the EM conductor was identified.
QTBL0012	147.40	This hole tested an EM conductor at a depth of 80m and a magnetic anomaly that could be represented by a boudinaged extension of an ultramafic intrusion along strike.	5% pyrrhotite + chalcopyrite over 0.65 metres; foliation parallel metagabbro in biotite schist at 82.6m, provides a potential explanation for the EM conductor and magnetic anomaly.
QTBL0013	252.10	This drillhole tested the extent and possible mineralization of the large, mapped hornblendite outcrop to the east of 2021 Main Trench	Two significant ultramafic zones were identified in this hole with hornblendite cores and feldspathic hornblendite rims. Mineralization in these zones consisted primarily of pyrite; Ni-Cu sulphides were rare.
QTBL0014	64.00	An additional drillhole to test the extent of the large ultramafic body in the east as well as conduct borehole EM deep in the ultramafic body.	Similar units were intersected as the previous hole; no significant Ni-Cu mineralization was intersected. Limited ultramafic was intersected indicating that this area might be the tip of a boudin

QTBL0015	177.00	Targeted a boudin tip of the largest interpreted ultramafic unit in the project area as a follow up to QTBL0013. The ultramafic boudin tips are known to host metamorphic remobilized sulphides. Downhole EM was to be conducted deep in the ultramafic body to get a better sense of the geometry and potential conductors in the body.	Drill hole did not intersect any ultramafic units, suggesting the interpreted ultramafic boudin has tapered out in this area.
QTBL0016	24.00	Drill hole tested the maxwell plates generated from borehole EM in QTBL0011 and QTBL0012 at a depth of 90m.	Drill hole was stopped early as a GPS translation error in the generation of the BHEM plates was discovered, leading to a change in depth of the plates.
QTBL0017	135.00	Drill hole drilled to test the maxwell plates generated from borehole EM in QTBL0011 and QTBL0012 at a depth of 90m.	Drill hole captured a 15 cm-thick mineralized blebby to interstitial (poppy) band in tonalite at a depth of 97.3m, which explained the tested EM plate.
QTBL0018	342.00	Drilled to explore the continuation of the Ni-Cu mineralization along the trend to the west. Additionally, the drill hole would test a weak anomaly from ground EM.	Two moderately mineralized zones were intersected at 26.2 m and 197 m and frequent mafic banding was observed, highlighting the potential for mineralization to extend to the west at depth.
QTBL0019	134.10	Drill hole tested off-hole conductors generated from EM anomalies around hole QTBL0009.	Intersected a 1.3 m-thick mineralized zone with semi-massive to net textured Ni-Cu sulphide breccia coincident with the modelled EM conductor. Spatial distribution of the sulphides indicate the mineralization is structurally controlled.
QTBL0020	339.25	Drilled to test the mineralized plane between drill hole QTBL0017 and QTBL0018 as a 100m step out. Angled steeply in order to remain close to the interpreted structure and maximize the ability for downhole EM to explore this structure.	Drill hole intersected the diabase unit observed in QTBL0011. Drill hole did not intersect significant mineralization but was used to conduct the deep downhole EM test.

QTBL0021	168.00	Drill hole tested a significant off-hole conductor discovered in hole QTBL0018 at a depth of 150m.	Significant Ni-Cu sulphide mineralization with a 17 cm-thick semi-massive zone intersected 30 m shallower than modelled depth of 115.2m.
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## Drill hole Geology

Detailed core logs for all drill holes are available in Appendix C.

Drill hole QTBL0010 was the first hole drilled of the program and tested for mineralization in two areas: under the 2021 Main Trench and at depth along the down-dip extension of the 2021 south trench. This drill hole also tested the structural interpretation of the area. The four lithologies identified in this drillhole were biotite schist (SED), granite (GRT), diorite (DIO), breccia (BXX), and gabbro (GAB) over a total depth of 201 m. Core logging identified granite and schist units were present 20 m under the mineralized 2021 Main Trench. These units contain mafic bands constituting 5-10% of the overall lithology (Figure 18), and what appear to be remobilized Ni-Cu sulphides. This is likely the ultramafic intrusive at surface pinching out at depth. Multiple gabbro units were intersected in this drill hole ranging from 0.24 m to 4.41 m in thickness. The 4.41 m-thick gabbro was intersected at a depth of approximately 132 m (Figure 19), which has been interpreted to be a pinched extension of the intrusion exposed by the 2021 south trench. This gabbro does not feature significant mineralization but does contain coarser pyrite crystals than typically observed in the rest of the drill hole. Other intercepted gabbro units do not contain mineralization of interest. The breccia unit occurs from 144.78 m - 145.98 m (Figure 20) in the local diorite with a weakly chlorite-altered biotite matrix and trace fine grained disseminations of pyrite. This breccia is unique to this drillhole. Alteration primarily consists of common calcite veining and chlorite in the biotite schist, as well as weak sericitization and saussuritization in the granitic and intermediate units.



Figure 18. One centimetre-wide mafic band folded in biotite schist in QTBL0010 at 111.15 m depth.





Figure 19. A foliated gabbro unit intersected at 133m in QTBL0010



Figure 20. Brecciated diorite dominated by clasts of plagioclase feldspar in a biotite-chlorite matrix

Drill hole QTBL0011 was drilled to test an EM conductor which had been interpreted to possibly be another ultramafic boudin like the intrusion exposed directly east along strike at the 2021 Main Trench. The lithologies identified in this drillhole were biotite schist (SED), granite (GRT), tonalite (TON), diorite (DIO), granodiorite (GRD), and diabase (DIAB) over a total depth of 165 m. No significant mineralization was observed in this hole, with very fine disseminations of chalcopyrite and pyrrhotite (<1%) in an 85 cm-thick diabase intersected at 29.46 m depth (Figure 21). This diabase unit had not been observed in previous mapping or drilling programs. The diabase had an overall lack of metamorphic features and was noted to cross-cut the granodiorite and schist units suggesting that it is younger than the Quetico Intrusions. Alteration observed in this drill hole include weak to moderate saussuritization of plagioclase phenocrysts and weak replacement of biotite by chlorite. Carbonate veining is present with chlorite alteration halos (Figure 22). These alteration assemblages are common throughout the property and were observed in most drill holes.



Figure 21. Diabase unit in QTBL0011 at 30m depth. Note the very fine disseminations of rusted pyrrhotite.

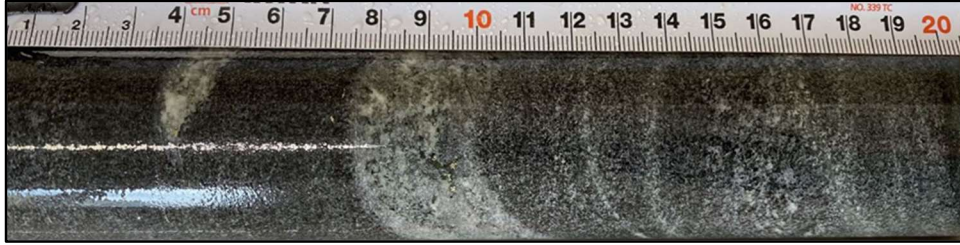


Figure 22. Felsic banding and carbonate veining in the biotite schist of QTBL0011 at 96 m depth. Many felsic bands are boudinaged and chlorite often forms replacement alteration halos around carbonate veins

Drill hole QTBL0012 was drilled to investigate an EM conductor with the potential to be an ultramafic boudin west of the 2021 Main Trench. Lithologies identified in this drill hole include biotite schist (SED), granite (GRT), tonalite (TON), diorite (DIO), granodiorite (GRD), and gabbro (GAB) over a total depth of 147.40 m. This drill hole primarily intersected the metasedimentary country rock cut by numerous felsic to intermediate intrusions (Figure 23). The medium-grained, moderately foliated metagabbro was intersected over an interval from 82.60 - 83.25 m, hosting 3% veined and disseminated pyrrhotite and 2% veined and blebby chalcopyrite (Figure 24). The sulphide mineralization veinlets are parallel to the F1 foliation indicating a structural influence on the distribution of mineralization. This mineralized metagabbro was determined to be the likely source of the EM conductor as mineralization was observed within 4 m of the estimated plate location. An additional gabbro unit was observed from 117.00 - 117.43m with no significant mineralization. This second gabbro differs from the first in that it is fine-grained and strongly foliated with moderate interstitial calcite alteration. Other alteration types include chloritization of biotite schist, saussuritization of feldspar in granitic to intermediate lithologies, and rare fracture-hosted epidote.



Figure 23. Biotite schist country rock with carbonate veining and common felsic boudins. 25.5m depth in QTBL0012



Figure 24. Mineralized metagabbro at a depth of 82.6m in QTBL0012

Drill hole QTBL0013 tested the geometry and Ni-Cu mineralization potential of the eastern ultramafic body identified during previous field mapping. Lithologies intercepted in this drillhole include biotite schist (SED), granite (GRT; Figure 25), tonalite (TON), diorite (DIO), syenite (SYN), melagabbro (MGB), feldspathic hornblendite (FHB), and hornblendite (GAB; Figure 26) over a total depth of 252.16 m. This drill hole defines two significant ultramafic bodies in the west as hornblendite to feldspathic hornblendite



dominated by and intergrown with various intermediate to felsic intrusive units. Later K-feldspar-rich granite and syenite intrude and partially brecciate towards the rims of the hornblende bodies. Alteration includes weak serpentinization of hornblendites, hematite alteration occurring in both K-feldspar rich granite and biotite schist, and calcite occurring interstitially and as veins in schist and hornblendite. Mineralization in these ultramafic bodies was found to be of low significance, occurring as fine disseminations and blebs throughout the units but not in relevant concentrations. Two percent interstitial pyrrhotite and chalcopyrite is present in a tonalite unit over a 23 cm-thick interval at a depth of 206.16 m (Figure 27). The main difference between the two ultramafic bodies identified in QTBL0013 (north and south bodies) was in sulphide phase occurrence – the northern body was found to contain pyrite and Ni-Cu sulphides, whereas the southern body contained primarily pyrite.



Figure 25. Medium-coarse grained granite unit at a depth of 37.00 m in QTBL0013.

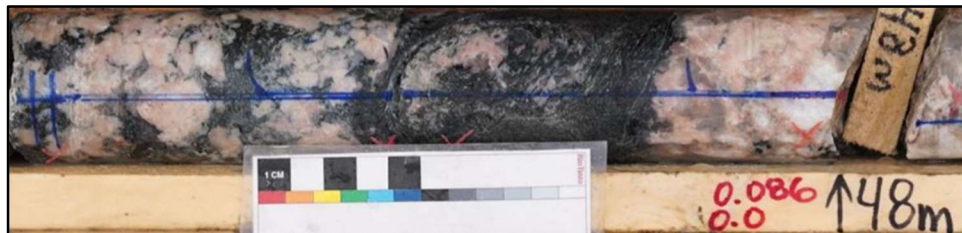


Figure 26. Chlorite alteration in coarse granite at 47.90 m in QTBL0013.



Figure 27. Weakly mineralized tonalite at 206.16 m depth in QTBL0013 with 2% interstitial pyrrhotite and chalcopyrite.

Drill hole QTBL0014 was designed to test the ultramafic body targeted in QTBL0013 from the north. QTBL0014 was specifically designed to aim for an interpreted boudin tip to test for remobilized sulphide mineralization. Lithologies encountered in this drillhole include biotite schist (SED), granite (GRT), hornblende gabbro (HGB), feldspathic hornblendite (FHB), and hornblendite (HBL). The top 40 m of the drill hole consists of alternating biotite schist and granite (Figure 28), with no significant mineralization

and rare calcite veins with associated chlorite vein halos in the schist. Drill hole QTBL0014 intersected the northern ultramafic body at approximately 40m depth, grading from hornblende gabbro to hornblendite with no significant mineralization. Pyrite is present in the ultramafic body as fine to very fine disseminations and blebs no higher than 1% abundance, along with 0.25% pyrrhotite and 0.1% chalcopyrite (Figure 29). Alteration in the hornblendite and feldspathic hornblendite units consists of recrystallized biotite.



Figure 28. Biotite schist contact with a medium-grained bleached granite at 20m depth in QTBL0014

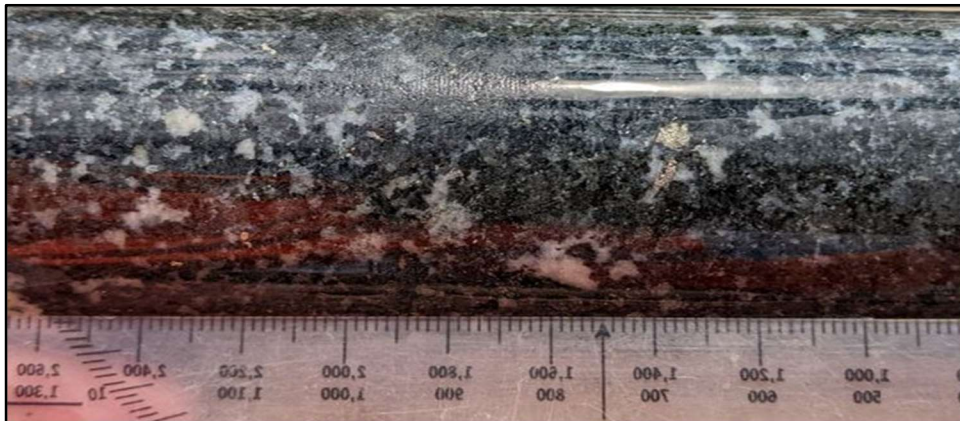


Figure 29. Blebby pyrite and disseminated pyrrhotite with chalcopyrite in feldspathic hornblendite unit at a depth of 50.52 m in QTBL0014

Drill hole QTBL0015 was drilled for the same purpose as QTBL0014 but with a steeper dip, targeting the interpreted ultramafic boudin tip at depth to test with borehole EM. Lithologies intersected in this drill hole include biotite schist (SED), granite (GRT), granodiorite (GRD), and diorite (DIO) units over a total depth of 177.00 m. Most notably, the drillhole did not intersect any mafic or ultramafic units despite drilling very close to QTBL0014 which did intersect hornblendite. Chloritization related to carbonate veining in the schist is common (Figure 30), as well as partial saussuritization and sericitization in the felsic to intermediate units. No mineralization was intersected in this drillhole. The information provided by this drill hole suggests the geometry of the ultramafic bodies to be irregular and varies significantly both laterally and vertically.





Figure 30. Biotite schist with multiple orientation of carbonate veins. Note chlorite vein halos around the carbonate veins.

Drill hole QTBL0016 was drilled from the same pad as QTBL0011 and QTBL0012 to test an off-hole EM plate identified by the downhole EM survey in hole QTBL0012. This hole was abandoned at a depth of 24.00 m due to a GPS translation error for the BHEM plate resulting in the dip being  $9^\circ$  too shallow to intersect the target conductor. Two lithologies were identified in this drillhole – biotite schist (SED) and granite (GRT). Alteration in these lithologies is consistent with local alteration and veining – interstitial to veining carbonate with associated chlorite vein halos. Less than 0.1% fine-grained, disseminated pyrite was observed in the biotite schist, which was irregularly intruded by the granite.

Drill hole QTBL0017 was drilled with the correct dip to target the off-hole anomaly detected in drill hole QTBL0012. The total depth of the hole is 135.00 m and four main lithologies were intersected: biotite schist (SED), granite (GRT), granodiorite (GRD), and diabase (DIAB). The 3.95 m-thick diabase unit encountered at 26.79 m depth is like the diabase encountered in hole QTBL0011 and contains 1% sulphides with vein-associated pyrrhotite. A 1 cm-thick, epidotized felsic band cross-cuts this diabase unit and is visible in Figure 31. The remainder of the drill hole consists of biotite schist country rock with intruding granite units ranging from 0.5 m to 23 m in thickness. These granite units are predominantly light pink to grey in color, have been weakly sericitized and are generally coarse grained to locally pegmatitic. The BHEM anomaly was estimated to be at a depth of 93.00 m and QTBL0017 intersected sulphide mineralization at 97.3m (Figure 32). This anomaly consists of a mineralized zone in a thin granite intruding the biotite schist that is 40 cm thick with an estimated 5% interstitial and veined chalcopyrite and pyrrhotite. The remainder of the hole consists of granitic pegmatite and biotite schist.



Figure 31. Diabase unit at 30.60 m depth in QTBL0017. Weakly disseminated pyrrhotite is present in the diabase.



Figure 32. Mineralized zone in bleached granite intruding the biotite schist at a depth of 97.30 m in QTBL0017. Sulphides fill the fractures and occur interstitially with biotite in the thin granite.

Drillhole QTBL0018 was drilled with the objective of exploring the west end of the project area along the trend of mineralization. Additionally, the drillhole was to intersect a weak anomaly from ground EM while exploring the ultramafic plane. The total drillhole depth is 345m. Lithologies intersected include biotite schist (SED), granite (GRT), granodiorite (GRD), tonalite (TON), diabase (DIA), and hornblendite (HBL). The hole primarily consists of the same biotite schist and granite/pegmatite units observed throughout the property. Carbonate veining occurs frequently in biotite schist with associated chlorite. Hematite alteration and sericitization is present in the granites and pegmatites. A 1.09m thick unit of hornblendite hosting 0.1% chalcopryrite and 1% pyrite was intersected at depth of 25.68m (Figure 33). This hornblendite has weak biotite recrystallization and very weak serpentinization. A 0.6m thick diabase unit was intersected at a depth of 30.52m (Figure 34) hosted in the metasedimentary biotite schist with 2cm wide chill margins. An additional 2m thick diabase was intersected at a depth of 62.38m. Neither diabase unit hosts any mineralization. At 197m, a 3cm zone of 10% sulphide bands were intersected in the biotite schist (Figure 35). Additionally, the biotite schist in this drillhole frequently contains mafic bands which may suggest a nearby intrusion.



Figure 33. Hornblendite with blebby pyrite and rare disseminated chalcopryrite at a depth of 25.68 m in QTBL0018



Figure 34. Unmineralized diabase at a depth of 30.52m in QTBL0018.

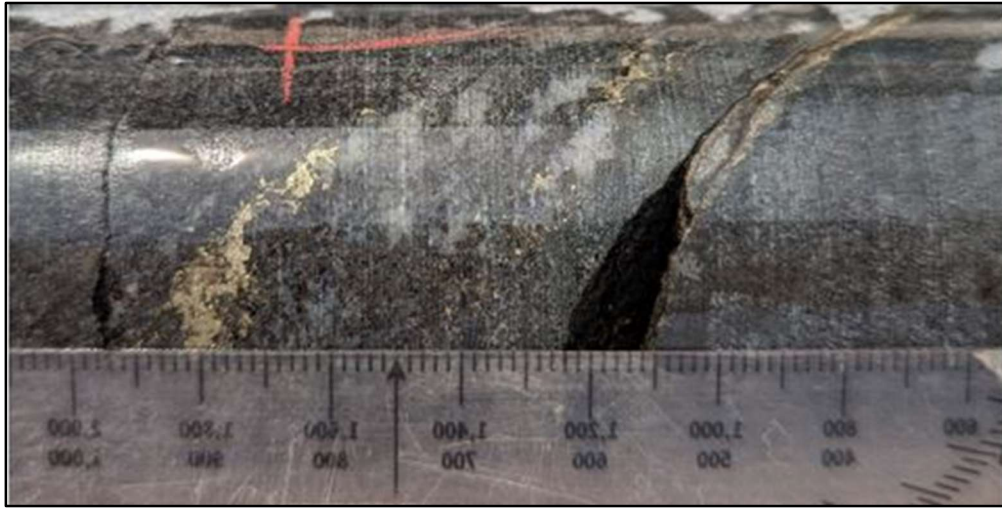


Figure 35. Mineralized mafic band parallel to foliation in the biotite schist at a depth of 197m in QTBL0018.

Drill hole QTBL0019 was drilled to test off-hole conductors generated from BHEM anomalies around drill hole QTBL0009. The total drill hole depth is 134.10 m. Lithologies intersected in this drill hole include biotite schist (SED), granite (GRT), granodiorite (GRD), metagabbro (GAB), and hornblende gabbro (HGB). Alteration consists of chlorite halos around carbonate veins in the biotite schist and weak sericitization of few deeper felsic units. Drill hole QTBL0019 intersected a zone of Ni-Cu mineralization coincident with the BHEM anomaly over a 1.30 m interval. Within this interval is a 20 cm-thick zone from 45.87 m - 46.07 m (Figure 36) of Ni-Cu sulphide breccia with clasts of ultramafic intrusion and quartz. This sulphide breccia matrix is composed of approximately 15% pyrrhotite, 10% chalcopyrite, and 5% pyrite and appears semi-massive. The contact between the sulphide breccia and host hornblende gabbro is diffuse but mineralization continues with approximately 5% chalcopyrite, 3% pyrrhotite and 3% pyrite occurring from 46.07m - 47.16m in the hornblende gabbro (Figure 37). The remainder of the hole is composed of alternating granitic pegmatite and biotite schist country rock (Figure 38).





Figure 36. Mineralized sulphide breccia with pyrrhotite, chalcopyrite, and pyrite in hornblende gabbro at a depth of 46.00 m in QTBL0019.

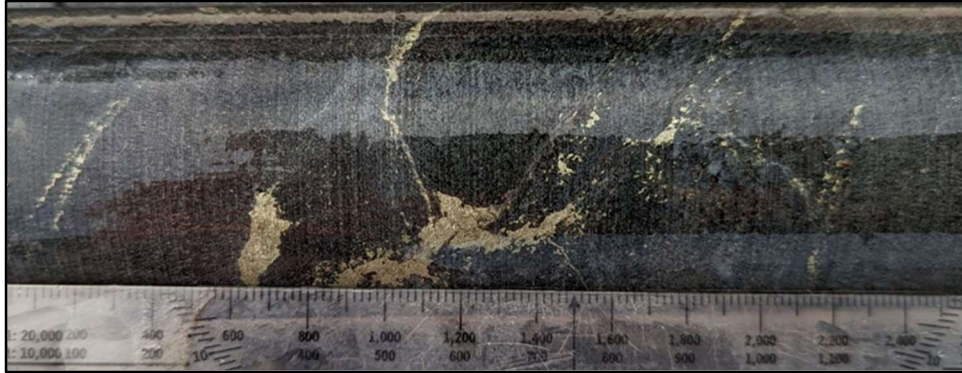


Figure 37. Mineralization showing pyrrhotite and pyrite around ultramafic boudins at 46.30 m depth in QTBL0019.



Figure 38. Metasedimentary biotite schist with partial chlorite replacement, irregular carbonate veins, and common felsic bands at 91.00 m depth in QTBL0019.

Drill hole QTBL0020 was drilled to test an interpreted mineralized plane between holes QTBL0017 and QTBL0018. The drill hole was drilled at a steeper angle to maximize the efficiency of BHEM in exploring the mineralized trend at depth. Final depth of the drill hole was 339.23 m and intersected lithologies included biotite schist (SED), granite (GRT), tonalite (TON), granodiorite (GRD), and diabase (DIAB). The majority of the drillhole consists of alternating schist and pegmatitic granite of varying thicknesses (Figure 39). Felsic units vary greatly in grainsize and composition, ranging from K-feldspar-dominated pegmatites to plagioclase- and biotite-dominated, medium grained units (Figure 40). Felsic bands are common in the schist and the abundance of carbonate veining (with associated chlorite vein halos) varies greatly within the units. Mafic bands are rare, with most bands appearing partially chloritized. Saussuritization and sericitization is weak but common in units of intermediate to felsic composition. Fluorite is trace overall but present in granitic pegmatites. Magnetite is rare in granitic pegmatites but present in tonalitic pegmatite units. Rare rims of up to 0.5% pyrrhotite and pyrite are observed along the biotite-rich rims of felsic boudin selvages at a depth of 204m (Figure 41). The diabase unit intersected is very fine to fine grained, massive, and has no associated mineralization.





Figure 39. Felsic bands in fine-grained biotite schist at a depth of 37m in QTBL0020.



Figure 40. Variably textured granite units in QTBL0020 at a depth of 128m. K-feldspar and plagioclase content varies as well as grain size and biotite occurrence.



Figure 41. Pyrite and pyrrhotite mineralization as rims on felsic boudin selvages at 204m depth in QTBL0021.

Drill hole QTBL0021 was drilled to test an off-hole conductor in QTBL0018 identified with BHEM at a depth of 150.00 m. The total drilled depth was 168.00 m as the conductor was intersected at a shallower depth than expected. Lithologies intersected included biotite schist (SED), granite (GRT), granodiorite (GRD), quartz diorite (DIO), diabase (DIAB), melagabbro (MGB; Figure 42), and hornblende gabbro (HGB). Chlorite alteration is common throughout the drill hole, especially in association with calcite veins in the schist units, and sericitic alteration is weakly present in the pegmatitic granite and granodiorites. At 25.00 m, a pegmatitic granite hosted in the biotite schist contains up to 1% patchy to interstitial pyrrhotite and common coarse magnetite (Figure 43). Diabase occurs multiple times in the drill hole, averaging one metre in thickness at each intersect. Diabase also locally occurs as a xenolith in quartz diorite with up to 1% disseminated rusty pyrrhotite (Figure 44). The hornblende gabbro unit located at a depth of 116.28 - 117.63 m contains a 17 cm-thick zone of semi-massive sulphides (up to 65% chalcopryrite and pyrrhotite mineralization; Figure 45). The entire interval contains an estimated 15% patchy to semi-massive chalcopryrite and 4% disseminated to semi-massive pyrrhotite. Chlorite alteration is strong in the hornblende gabbro and sulphide-bearing carbonate veins are common. As the BHEM identified conductor is at a depth of 150.00 m, this mineralization fails to explain the anomaly.

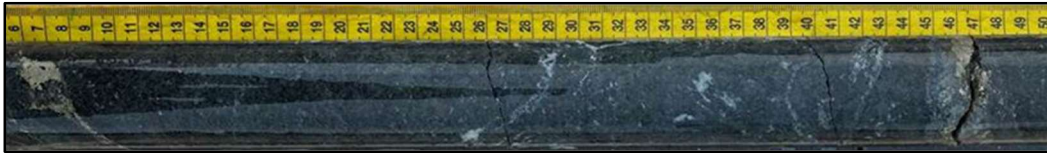


Figure 42. Melagabbro unit featuring patches of pyrite and pyrrhotite mineralization at 15m depth in QTBL0021.



Figure 43. Patchy to interstitial pyrrhotite and pyrite mineralization in a pegmatitic granite at 25.00 m depth in QTBL0021.



Figure 44. Diabase occurring in quartz diorite unit in QTBL0021. Diabase hosts 1% patchy pyrrhotite mineralization.

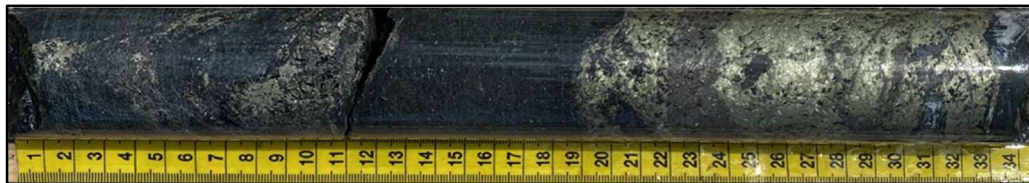


Figure 45. Mineralized zone of hornblende gabbro in QTBL0021 at 116.50m depth with massive to semi-massive Ni-Cu sulphides.

## Drilling Summary

Drilling successfully delineated a trend of high tenor Ni-Cu sulphide mineralization extending from the 2021 Main Trench to the west. The mineralization is often found as semi- to massive sulphide associated with boudinaged ultramafic intrusive units distributed along a plane parallel to the dominant regional F1 foliation that appears to dip gently to the west. Data acquired during both the prospecting and trenching campaigns provides additional evidence to support this interpretation of the modeled mineralization. Distribution of the pods of mineralization along the F1 foliation is consistent with the interpretation that sulphide mineralization has been remobilized in a highly compressive/transpressive environment. Figure 37, showing a small ultramafic boudin with sulphide mineralization wrapping around it and accumulating

in pressure shadow areas, highlights on a small scale what has been interpreted on a larger deposit scale.

## Surface Sample Geochemistry

### Sampling Method and Approach

A total of 11 samples were collected and subsequently processed at the ALS Chemex laboratory for this program. Samples of the various lithologies were collected for lithochemical analysis and samples containing sulphide mineralization were collected for metal assay analysis of Ni-Cu-PGE concentrations.

### Quality Control

Quality control samples consisted of blanks and standards. A blank sample is inserted prior to the sample sequence and the standard was inserted within the sample sequence. A commercially available granitic rock was used as blank material. Certified reference material of known Cu, Ni, S, and PGE concentrations were used as standards.

### Sample Preparation, Analyses

Samples are dried and weighed before going through the preparation facility. Samples were crushed to 70% passing 2 mm fraction size and then a representative one-kilogram split was taken from the crushed sample. This subsample was then pulverized to 85% passing 75 microns in size. After the preparation was completed, the sample was sent for metal assay and/or lithochemical analysis. All samples were submitted for ALS's Near Complete Analysis method (ALS- ME-MS81d, ME-4ACD81, S-IR08, PGM-MS23L) with PGM-MS23L.

### Assay Results and Discussion

The assay results for intervals with the best mineralization are presented in Table 9. The boulder and outcrop prospecting led to discovery of several new mafic-ultramafic intrusions and analysis indicates the MgO concentration generally ranges between 17-32%. Many of these outcrops and float samples show evidence for sulphide saturation and metal enrichment. Further fieldwork should focus on follow-up mapping and prospecting to incorporate more detail to the nature of intrusive contacts in areas like the northern margin of the NE-SW-striking magnetic feature. In addition, conducting a detailed ground EM survey may identify conductor associated with sulphide mineralization around newly identified ultramafic outcrops north of the main mineralization trend.

Table 9. Surface samples with assay values for elements of interest

SAMPLEID	Sample Type	Lithology	MagSus (x10 <sup>-3</sup> SI)	Cu (%)	Ni (%)	Pt (g/t)	Pd (g/t)	S (%)	MgO (%)
40272901	Outcrop	Hornblendite	0.358	0.011	0.040	0.005	0.004	0.08	17.80
40272902	Float	Hornblendite	24.600	0.012	0.061	0.013	0.011	0.14	23.00
40272903	Float	Felspathic Hornblendite	1.350	0.003	0.007	0.000	0.000	0.16	5.91
40272904	Outcrop	Hornblendite	0.553	0.018	0.035	0.002	0.001	0.19	17.95
40272951	Float	Olivine Clinopyroxenite	42.100	0.005	0.096	0.002	0.001	0.07	27.50
40272952	Outcrop	Hornblendite	46.200	0.016	0.081	0.004	0.002	1.04	23.80
40272953	Float	Hornblendite	32.700	0.002	0.111	0.007	0.011	0.12	32.70
40272954	Float	Peridotite	53.100	0.004	0.090	0.003	0.003	0.06	26.10



40272955	Float	Olivine Pyroxenite	8.740	0.011	0.079	0.004	0.003	0.15	17.50
40272956	Float	Quartz Monzonite	0.140	0.001	0.001	0.000	0.000	0.03	0.78
40272957	Float	Hornblendite	25.20	0.020	0.090	0.004	0.004	0.16	14.70

## Drill Hole Geochemistry

### Sampling Method and Approach

A total of 1013 drill core samples were processed by ALS Canada Ltd. for this program. The samples were cut in half longitudinally with the use of a core saw and a representative half of the drill core was dried and submitted to the laboratory for geochemical analysis.

### Quality Control

A quality control sample, consisting of blanks, duplicates, and standards, was inserted into the sampling sequence at a minimum of every ten samples. Additional quality control samples are inserted in mineralized intervals. Blank samples are inserted before and after each mineralized interval. Standards and duplicates are placed within the mineralized interval and cutlines are used to ensure even mineralization splits. Shoulder samples are collected above and below intrusive contacts or mineralized zones. A commercially available granitic rock was used as blank material. Certified reference material of known Cu, Ni, S, and PGE concentrations were used for standards. Duplicate samples are obtained by quartering a core sample selected for analysis.

### Sample Preparation, Analyses

Samples are dried and weighed before going through the preparation facility. The samples were crushed to 70% passing 2mm fraction size and then a representative one-kilogram split was taken from the crushed sample. This subsample was then pulverized to 85% passing 75 microns in size. After the preparation was completed, the sample was submitted for assay. Drill core sampled from the Baril Lake project was divided into three assay packages dependent on lithology. Sample groups consisted of mineralized samples, barren mafic or ultramafic intrusion, and metasediments. Mineralized samples were submitted for ALS's Complete Characterization package (CCP-PKG01) with PGM-MS23L analysis. Barren intrusion samples were submitted for ALS's Near Complete Analysis method (ALS- ME-MS81d, ME-4ACD81, S-IR08, PGM-MS23L) with PGM-MS23L analysis. Finally, the metasediments were submitted for ALS's Super Trace ME-MS61L Multi-Element Suite with the ICP-MS and PGM-MS23L analysis. All mineralized samples were prepared with an inter-sample wash during sample preparation.

Table 10. Number of samples collected per drillhole including standards, blanks, and duplicates

Hole	Blanks	Standards	Duplicates	Assay Samples	Total Samples	ALS Workorder	Despatch
QTBL0010	7	5	4	104	120	TB22221580 TB22240973 TB22269677	EB80001657 EB80003511 EB80003529
QTBL0011	4	2	2	48	56	TB22221580 TB22240973 TB22269677	EB80001657 EB80003511 EB80003529
QTBL0012	4	4	6	80	94	TB22221580 TB22240973 TB22269677	EB80001657 EB80003511 EB80003529
QTBL0013	7	5	5	139	156	TB22248099	EB80003510



						TB22240973 TB22269677	EB80003511 EB80003529
QTBL0014	3	1	2	46	52	TB22248099 TB22269677	EB80003510 EB80003529
QTBL0015	2	3	2	68	75	TB22248099	EB80003510
QTBL0016	0	0	0	0	0		
QTBL0017	3	2	3	58	66	TB22240973 TB22255241 TB22269676 TB22269677	EB80003511 EB80003512 EB80003528 EB80003529
QTBL0018	8	8	8	167	191	TB22255241 TB22269676 TB22269677	EB80003512 EB80003528 EB80003529
QTBL0019	5	3	2	69	79	TB22248099 TB22240973 TB22269677	EB80003510 EB80003511 EB80003529
QTBL0020	5	5	7	150	167	TB22266319 TB22269676 TB22269677	EB80003513 EB80003528 EB80003529
QTBL0021	5	3	6	84	98	TB22269675 TB22269676 TB22269677	EB80003527 EB80003528 EB80003529
Rock Samples	2	2	0	11	15	TB22139726	EB80003499
<b>Total</b>	<b>55</b>	<b>43</b>	<b>47</b>	<b>1024</b>	<b>1169</b>		
<b>% Of Total</b>	<b>4.70</b>	<b>3.68</b>	<b>4.02</b>				
<b>% Of Total:</b>	<b>12.39</b>						

## Assay Results and Discussion

The assay results for intervals with the best mineralization are presented below in Table 11. Assays for selected elements are presented in the drill logs in Appendix C, and the Certificates of Analysis are provided in Appendix E. Drill hole QTBL0010 assay results correspond with the surface bedrock mineralization extending to a depth of 29.58 m, with an irregular morphology evident from narrow chalcopyrite stringers hosted within the metasediment unit. The best interval was one metre at 0.87% Cu, 0.10% Ni, 0.01g/t Pt, 0.06g/t Pd. In drill hole QTBL0012 at 82.6m depth, a narrow zone of foliated medium grained gabbro with thin parallel sulphide veins was intersected between a thicker sequence of metasediments and felsic rocks (Figure 24). The thin sulphide veins occurred over 0.50 m and the interval contained 1.14% Cu, 0.25% Ni, 0.01g/t Pt, 0.004g/t Pd. Drill holes QTBL0013, QTBL0014, QTBL0015, QTBL0016, QTBL0020 did not intersect any significant mineralization. In drill hole QTBL0017 the assay results show thin, parallel sulphide bands within the foliated metasediment have a similar metal enrichment with a higher copper affinity than those from QTBL0010. The narrow zone of thin sulphide bands at 97.25m depth is 0.50 meters in length with 0.52% Cu, 0.03% Ni, 0.05g/t Pt, 0.02g/t Pd. For drill hole QTBL0018, the assay results show a zone of PGE enrichment within the sulphides phases in a narrow hornblendite unit. The elevated PGE interval was associated with disseminated-blebby pyrite and trace chalcopyrite across an interval 0.67 m in length at 0.04% Cu, 0.08% Ni, 0.14g/t Pt, 0.17g/t Pd. Drill hole QTBL0019 intersected 1.29 m of breccia at 45.87m depth with 30% sulphide matrix in a hornblende gabbro unit (Figure 36). The best zone within this interval is 1.29m at 1.42% Cu, 0.86% Ni, 0.17g/t Pt and 0.07g/t

Pd including 0.50 m with 1.92% Cu, 1.40% Ni, 0.43g/t Pt, 0.13g/t Pd, and this interval has 6.98% Ni tenor. Drill hole QTBL0021 intersected the most interesting assay at a depth of 116.28 - 117.63m with an abundance of patches and veins of chalcopyrite and pyrrhotite and 17 cm of massive sulphide (Figure 45). Assay results are 1.35 m at 3.11% Cu, 1.30% Ni, 0.08g/t Pt, 0.03g/t Pd, and this interval has 4.44% Ni tenor. Another narrow zone of notable mineralization from 15.08 - 15.59 m assayed 0.51 m at 0.57% Cu, 0.06% Ni, 0.10g/t Pt, 0.10g/t Pd. The assay further demonstrates Cu and Ni enrichment and localized elevated PGE concentration occurs within sulphides associated with the Baril Lake intrusions.

Table 11. Select assays for drillholes on the Baril Lake project

HOLEID	From	To	Interval Length (m)	Lithology	Cu (%)	Ni (%)	Pt (g/t)	Pd (g/t)	S (%)	NiEq (%)	CuEq (%)	Cu100%	Ni100%
QTBL0010	28.58	29.58	1.00	Schist	0.87	0.10	0.01	0.06	1.47	0.44	1.12	21.06	1.19
QTBL0012	82.60	83.1	0.50	Gabbro	1.14	0.25	0.00	0.01	1.89	0.69	1.76	21.44	3.70
QTBL0017	97.25	97.75	0.50	Schist	0.52	0.03	0.05	0.02	0.95	0.23	0.59	-	-
QTBL0018	26.11	26.78	0.67	Hornblendite	0.04	0.08	0.14	0.17	0.17	-	-	-	-
QTBL0019	45.87	47.16	1.29	Hornblende Gabbro	1.42	0.86	0.17	0.07	4.34	1.42	3.60	12.73	6.46
	*Including		0.50	Hornblende Gabbro	1.92	1.40	0.43	0.13	6.90	2.16	5.47	9.93	6.98
QTBL0021	15.08	15.59	0.51	Melagabbro	0.57	0.06	0.10	0.10	1.70	0.28	0.71	11.87	0.13
QTBL0021	116.28	117.63	1.35	HornblendeGabbro	3.11	0.75	0.04	0.02	4.98	1.98	5.02	23.28	4.44
	*Including		0.72	HornblendeGabbro	5.34	1.30	0.08	0.03	8.63	3.41	8.63	22.09	5.17

## Discussion and Recommendation for Further Work

The 2022 exploration program at Baril Lake greatly advanced the understanding of the property. Field mapping and trenching led to better understanding of the local geology and the structural controls on Ni-Cu sulphide mineralization. The drilling program was successful in extending the known zone of elevated tenor sulphide mineralization from the 2021 Main Trench approximately 520 m to the west. Borehole EM surveys have proven to be an effective tool for targeting accumulations of sulphides in this terrain.

Future work on the property should focus on following the known mineralized zone to the west. Surface mapping, with the help of a detailed magnetic survey, will serve to define the geology. The purpose of this work is to locate a structural trap where meaningful quantities of mineralization may have accumulated. Surface and borehole EM surveys, in addition to well defined structural targets, could assist in targeting sulphide accumulations more accurately with diamond drilling.

Additionally, more field mapping and detailed ground magnetic and EM surveys are recommended over the newly discovered ultramafic outcrops to the north of the main mineralized trend. More work is required in the area to determine if these intrusive are prospective for Ni-Cu-PGE mineralization.

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## Statement of Qualifications

I, Greg Galloway certify that:

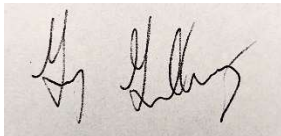
I am a full-time employee of Rio Tinto Exploration Canada Inc.

I graduated with Bachelor of Science Specialization in Geology degree from the University of Alberta in 2010.

I am a registered Professional Geoscientist in the province of Ontario and have 10 years of experience working in mineral exploration. I authored this assessment report entitled: 2022 Baril Lake Exploration Program, managed the activities on the project, including field work and sampling process.

To the best of my knowledge, all costs reported in this Assessment Report were incurred by Rio Tinto Exploration Canada in the 2022 Baril Lake exploration program.

Signed,



Dated this 19<sup>th</sup> of May, 2023

Greg Galloway  
Project Geoscientist  
Rio Tinto Exploration Canada Inc.





## Appendix A - Exploration Costs

Below is a breakdown of costs for the 2022 geological mapping drilling program on the Baril Lake property (Table A1), the exploration expenditures incurred on each claim is broken down in Table A2. A separate, detailed cost report with supporting invoices was submitted to the Ministry of Mines as part of the submission.

Table A 1: Summary tables of exploration, geophysical surveying, and drilling costs at Baril Lake.

<b>Cost Type</b>	<b>Service Provider</b>	<b>Subtotal</b>
Accommodation	Kashabowie River Resort / Oskondaga River Resort / Shebandowan Sunset / Timberland Motel	\$46,285
Contracted Labour	Steve Ward Contracting / La Ronge Petroleum Ltd	\$27,605
Corebox Supplies	Tigerdale Enterprises / Services Exploration	\$9,650
Diamond Drilling	George Downing Estate Drilling	\$555,534
Diesel	Mastrangelo Fuel	\$8,976
Fuel (for trucks)	RTECI expenses	\$21,219
Equipment Rental	Secure Store	\$3,960
Geochemical Assays	ALS Canada Inc	\$95,811
Geological Contracted Labour	Bayside Geoscience Inc.	\$106,602
Geophysical Survey Services	Crone Geophysics and Exploration Inc	\$94,740
Misc. Field Supplies/Food	RTECI expenses	\$31,108
Paramedic Services	Haztech	\$73,425
Staff Cost	RTECI employees	\$183,920
Waste	A-1 Sewage / GFL Environment / Waste Connections of Canada	\$1,741
	<b>Total</b>	<b>\$1,260,576</b>

Table A 2: Summary tables of exploration drilling and geophysical surveying costs per claim at Baril Lake.

Claim Number	Meters Drilled	Percentage of Drilling and Borehole EM	Cost of Drilling and Borehole EM	Excavator Time Trenching (hrs)	Percent of Trenching program	Cost of Trenching Program	Area Mapped (m <sup>2</sup> )	Percent of Mapping Program	Cost of Mapping	Total
172207	0	0.00	\$0.00	0	0	\$0.00	1150	0.11	\$116.30	\$116.30
311978	0	0.00	\$0.00	0	0	\$0.00	67150	6.62	\$6,790.62	\$6,790.62
172206	0	0.00	\$0.00	0	0	\$0.00	133385	13.16	\$13,488.70	\$13,488.70
126319	0	0.00	\$0.00	0	0	\$0.00	74375	7.34	\$7,521.25	\$7,521.25
275544	513	23.84	\$263,821.52	0	0	\$0.00	51180	5.05	\$5,175.63	\$268,997.16
228330	944.73	43.90	\$485,848.16	12	100	\$51,255.00	212965	21.01	\$21,536.32	\$558,639.48
311979	694.46	32.27	\$357,141.32	0	0	\$0.00	212965	21.01	\$21,536.32	\$378,677.63
275543	0	0.00	\$0.00	0	0	\$0.00	109875	10.84	\$11,111.23	\$11,111.23
156126	0	0.00	\$0.00	0	0	\$0.00	13875	1.37	\$1,403.12	\$1,403.12
221572	0	0.00	\$0.00	0	0	\$0.00	74635	7.36	\$7,547.55	\$7,547.55
114874	0	0.00	\$0.00	0	0	\$0.00	46195	4.56	\$4,671.52	\$4,671.52
324194	0	0.00	\$0.00	0	0	\$0.00	15935	1.57	\$1,611.44	\$1,611.44
<b>Total</b>	<b>2152.19</b>	<b>100</b>	<b>\$1,106,811</b>	<b>12</b>	<b>100</b>	<b>\$51,255.00</b>	<b>1013685</b>	<b>100</b>	<b>\$102,510.00</b>	<b>\$1,260,576.00</b>

## **Appendix B - Geophysical Survey & Logistics Report**



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## Crone Pulse-EM Survey

Rio Tinto Exploration  
Baril Lake

*Geophysical Survey & Logistics Report  
July and August 2022*



Conducted by:  
Crone Geophysics & Exploration Ltd.



crone





## TABLE OF CONTENTS

Introduction.....	3
Personnel.....	5
Equipment.....	5
Survey Methods.....	6
Data Acquisition Parameters.....	9
Production Summary.....	11

## LIST OF FIGURES

Figure 1: Borehole and loop location map for the Baril Lake Property, Ontario, Canada.....	4
Figure 2: Standard channel configurations.....	6
Figure 3: Standard Crone Pulse-EM waveform.....	7
Figure 4: Representation of fundamental EM theory of a borehole survey.....	7
Figure 5: Representation of the spatial components measured by the 3D Borehole Pulse EM probe.....	8

## LIST OF TABLES

Table 1: Borehole Survey Transmitter Loop Coverage.....	9
Table 2: Borehole Survey Coverage.....	9
Table 3: Channel configuration for the 16.66 ms timebase using 20 channels.....	10
Table 4: Production Summary.....	11

## LIST OF APPENDICES

Appendix 1: Borehole Survey Results.....	12
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## INTRODUCTION

Crone Geophysics & Exploration Limited was contracted by Rio Tinto Exploration to conduct borehole electromagnetic surveys on its Baril Lake property located in Northern Ontario, Canada . This report summarizes the geophysical work carried out through July and August, 2022.

Ten (10) holes utilizing three (3) transmitter loops were surveyed during this period. The appendices to this report contain page size plan maps, section maps, linear scale data profiles, and step response profiles.

Figure 1 provides a borehole and loop location map of the hole surveyed.

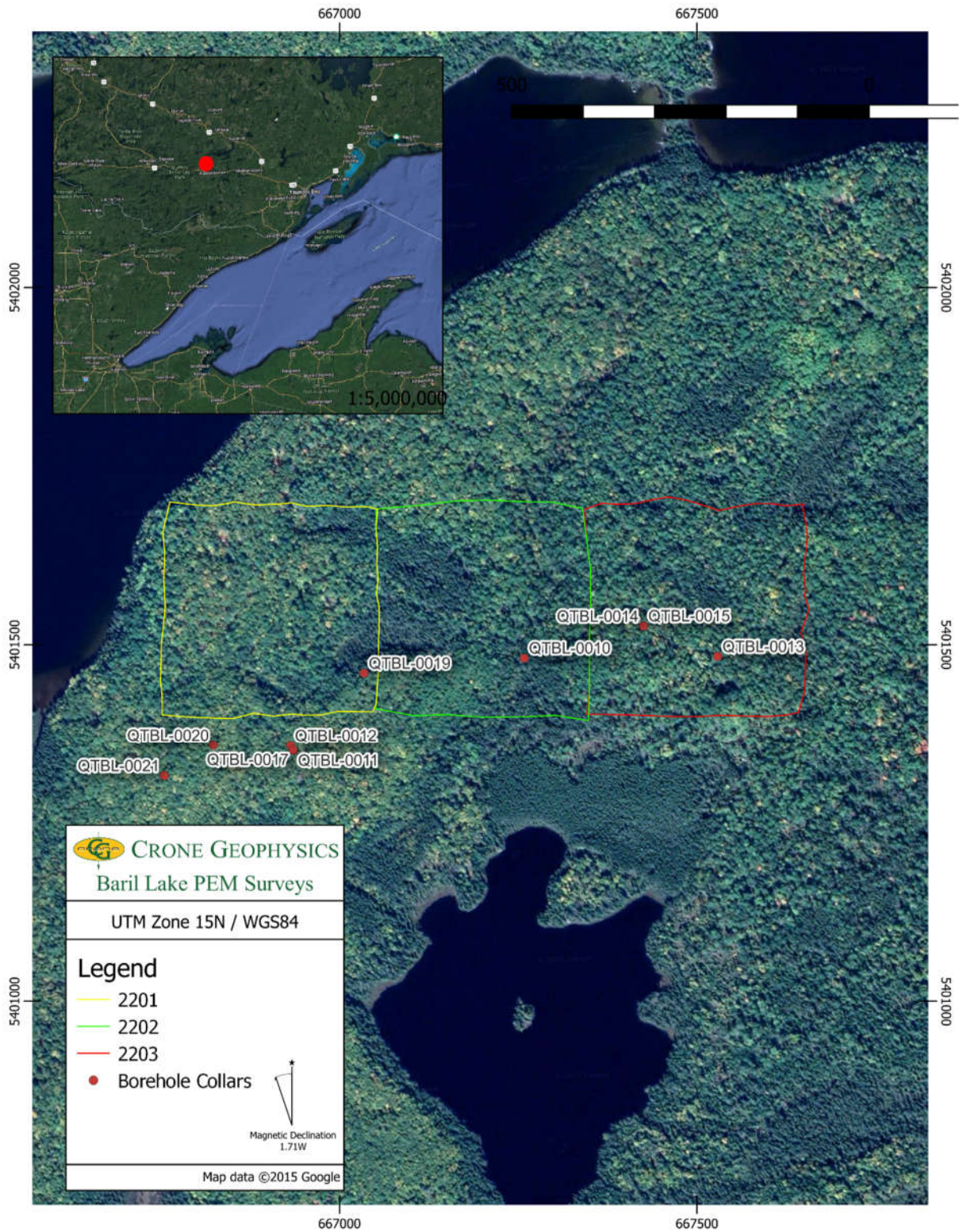


FIGURE 1: BOREHOLE AND LOOP LOCATION MAP FOR THE BARIL LAKE PROPERTY, ONTARIO, CANADA.



## PERSONNEL

The personnel involved in this project during the reporting period include:

Survey Operator: Wayne Pearson, Elias Gunn

Data Processing: Mark Hunter

Report: Norman Shieh

## EQUIPMENT



### Pulse-EM Transmitter

- 4.8kW for up to 30 amps in single or 60 amps in dual modes
- Timebases: 8.33ms to 2000ms
- Ramp Settings: Fast Ramp, 0.5ms, 1.0ms or 1.5ms
- Powered by standard motor generator
- Current control and monitoring with optional loop damping
- Auto Shutdown and grounded case for safety



### Pulse-EM CDR4 Receiver

- 24-Bit full waveform sampling
- 3-Component simultaneous acquisition
- High resolution rugged color LCD touchscreen
- Driven by Windows© programmable software
- Crone *Smartstacking* algorithm
- Sampling rate: 100K samples/second
- Next generation precision clock synchronization



### Pulse-EM Induction Coil Probes

- Measures dB/dt in 3 Components
- Ferrite Cored Induction Sensor
- Pressure tested to 2800m
- Radtool Orientation with 3 Axis Magnetometer and 3 Axis Accelerometer





## SURVEY METHODS

Crone Pulse-EM is a time domain electromagnetic method in which a precise pulse of current with a controlled linear shut off is transmitted through a large loop of wire on the ground and the rate of decay (dB/dt) of the induced secondary field is measured across a series of time windows during the off-time. The electromotive force (EMF) created by the sudden turn-off of the current induces eddy currents in nearby conductive material, generating a secondary electromagnetic field. When the primary field is terminated, this electromagnetic field will decay with time. The amplitude of the secondary field and the decay rate are dependent on the quality and size of the conductor.

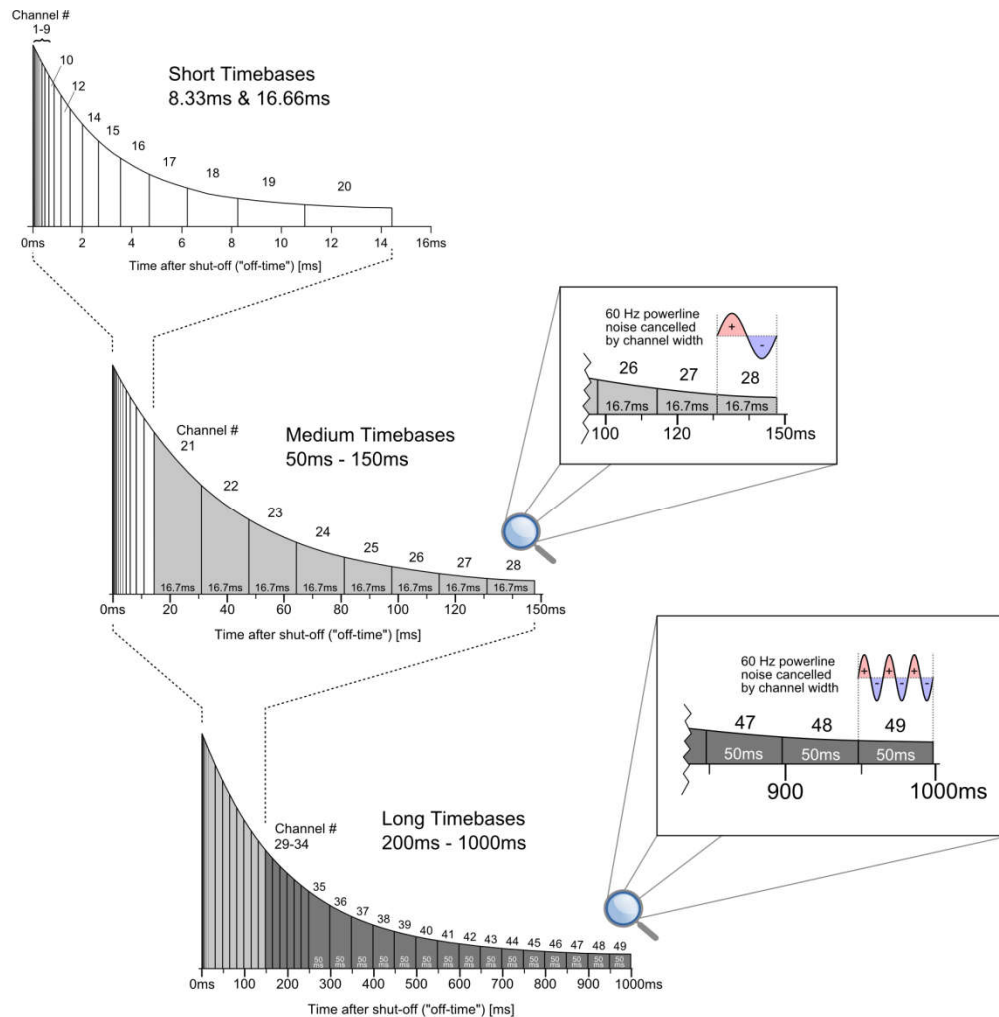


FIGURE 2: STANDARD CHANNEL CONFIGURATIONS.

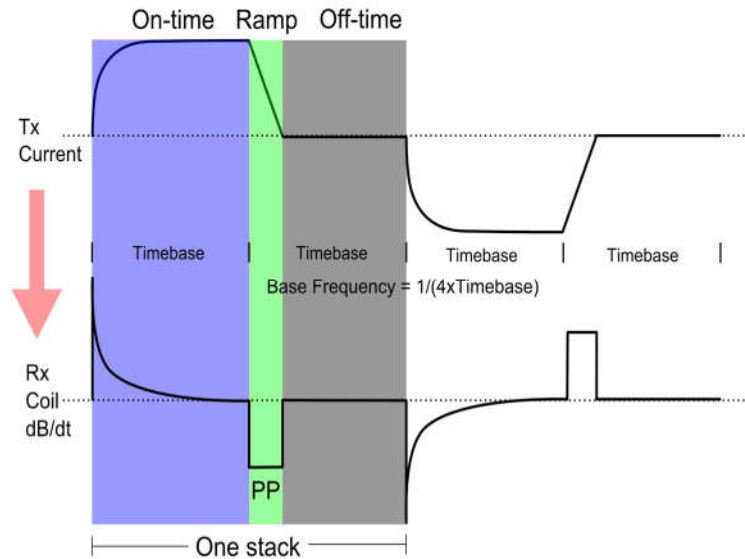


FIGURE 3: STANDARD CRONE PULSE-EM WAVEFORM.

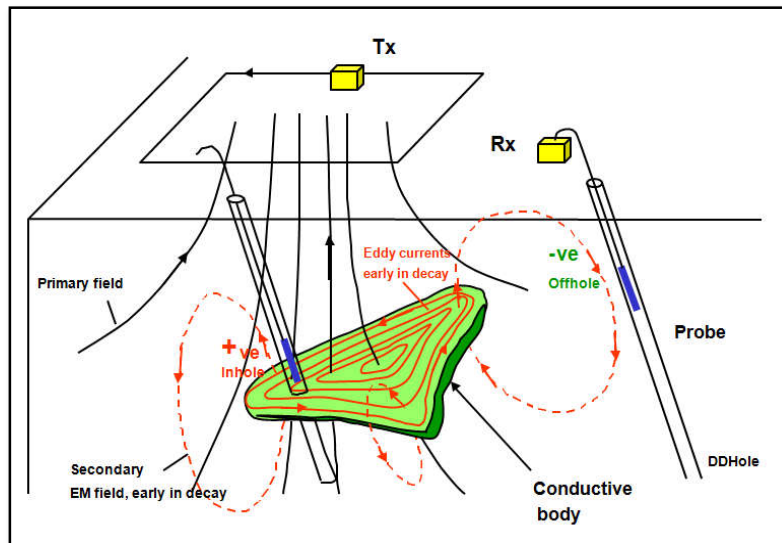


FIGURE 4: REPRESENTATION OF FUNDAMENTAL EM THEORY OF A BOREHOLE SURVEY.

A 3D borehole Pulse-EM system was assembled in which the axial component (Z) and cross component (XY) of the induced secondary field were measured with a Crone borehole induction coil probe. The Z component detects any in-hole or off-hole anomalies and gives information on size, conductivity, and distances to the edge of conductors. The XY components measure two orthogonal components of the EM field in a plane orientated at right angles to the borehole. These results give directional information to the center of the conductive body. Data is usually collected at a nominal sample interval of 10m. Data units are nT/s.

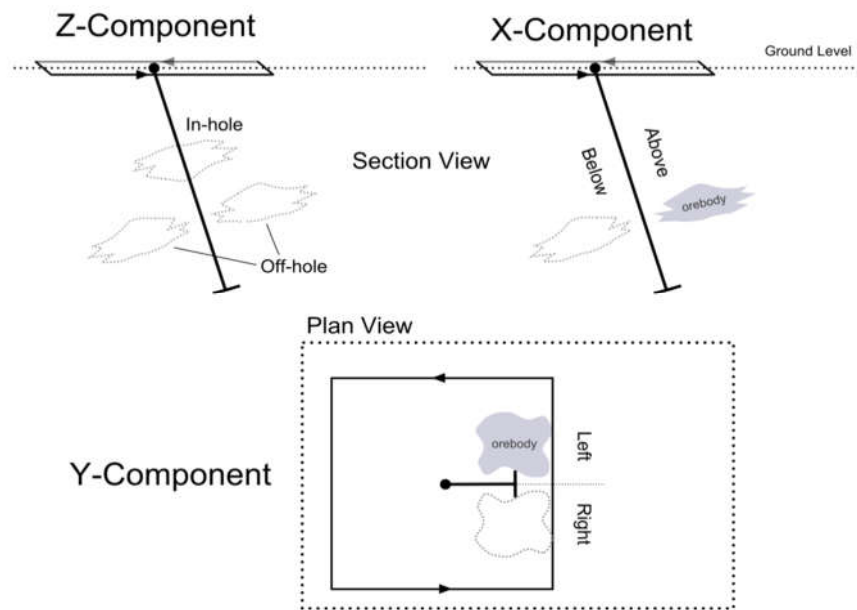


FIGURE 5: REPRESENTATION OF THE SPATIAL COMPONENTS MEASURED BY THE 3D BOREHOLE PULSE EM PROBE.

In addition to measuring the standard Primary Pulse channel in the Tx shut-off ramp and the off-time channels, the Step Response was also calculated. Step Response requires accurate geometrical control in which the loop position and the hole geometry are accurately determined. Positional information was collected using a sub-meter capable GPS and is provided in the NAD83 datum utilizing the UTM Zone 15N projection. Borehole geometry was determined by the Crone Rad-tool. The Step Response is widely regarded as a very important tool in the search for high conductance massive sulphides.

The calculated Step Response values are binned into an S1 channel (from 0.5T to T, where T is the time base), an S2 channel (from 0.25T to 0.5T), an S3 channel (from 0.125T to 0.25T) and an S4 channel (from 0.0625T to 0.125T). The S1 channel is normalized to the theoretical primary field, while S2, S3 and S4 are normalized to S1. The S1 value is used to identify responses from highly conductive sources. In the absence of any conductors, the primary field should equal the theoretical field for a given component. In the case of generally resistive host rock and poor conductors, the S1 value will be very close or equal to the theoretical field for a given component.



## DATA ACQUISITION PARAMETERS

**TABLE 1: BOREHOLE SURVEY TRANSMITTER LOOP COVERAGE.**

Tx Loop	Property / Target	Size (m)	Corner Coordinates UTM Zone 15N, NAD83
2201	Baril Lake	300 x 300	667053E, 5401689N 666762E, 5401699N 666751E, 5401401N 667046E, 5401406N
2202	Baril Lake	300 x 300	667339E, 5401690N 667051E, 5401689N 667050E, 5401410N 667348E, 5401393N
2203	Baril Lake	300 x 300	667649E, 5401696N 667343E, 5401689N 667346E, 5401402N 667641E, 5401404N

**TABLE 2: BOREHOLE SURVEY COVERAGE**

Hole	Zone	Tx Loop	Time base (ms)	Off Time Channels	Ramp (ms)	Current (A)	Station		Length (m)	Comp
							From	To		
QTBL0010	Baril Lake	2202	16.66	20	1.5	20	15	200	185	X,Y,Z
QTBL0011	Baril Lake	2201	16.66	20	1.5	20	15	140	125	X,Y,Z
QTBL0012	Baril Lake	2201	16.66	20	1.5	20	15	140	125	X,Y,Z
QTBL0013	Baril Lake	2203	16.66	20	1.5	20.5	15	250	135	X,Y,Z
QTBL0014	Baril Lake	2203	16.66	20	1.5	20	5	60	55	X,Y,Z
QTBL0015	Baril Lake	2203	16.66	20	1.5	20	15	170	155	X,Y,Z
QTBL0017	Baril Lake	2201	16.66	20	1.5	20	15	130	115	X,Y,Z
QTBL0019	Baril Lake	2201	16.66	20	1.5	20	10	130	120	X,Y,Z
QTBL0020	Baril Lake	2201	16.66	20	1.5	20	10	335	325	X,Y,Z
QTBL0021	Baril Lake	2201	16.66	20	1.5	20	10	160	150	X,Y,Z





TABLE 3: CHANNEL CONFIGURATION FOR THE 16.66 MS TIMEBASE USING 20 CHANNELS.

Channel	Start (ms)	Finish (ms)	Channel	Start (ms)	Finish (ms)
PP	-0.200	-0.100	1	0.050	0.060
2	0.060	0.080	3	0.080	0.110
4	0.110	0.150	5	0.150	0.200
6	0.200	0.270	7	0.270	0.360
8	0.360	0.480	9	0.480	0.640
10	0.640	0.850	11	0.850	1.130
12	1.130	1.500	13	1.500	1.990
14	1.990	2.640	15	2.640	3.510
16	3.510	4.660	17	4.660	6.190
18	6.190	8.220	19	8.220	10.920
20	10.920	14.400			



## PRODUCTION SUMMARY

TABLE 4: PRODUCTION SUMMARY.

Date	Type of Day	Comments
06-July-2022	MOB	MOB to Marathon
07-July-2022	MOB	MOB to Thunder Bay
08-July-2022	Survey	Laid loop 2201 and dummied holes, BHEM Z on QTBL0012
09-July-2022	Survey	BHEM XY 0012
10-July-2022	Survey	Laid loop 2202 and BHEM ZXY QTBL0010
11-July-2022	Survey	Laid loop 2203 and BHEM Z QTBL0013
12-July-2022	Survey	BHEM XY QTBL0013 and packed equipment
13-July-2022	Looping	Picked up a loop and DEMOB from site
14-July-2022	DEMOB	DEMOB Home for break
28-July-2022	MOB	MOB to Thunder Bay
29-July-2022	Survey	Checked loops on site for breaks and setup equipment for survey
30-July-2022	Survey	Dummy and BHEM Z QTBL0018
31-July-2022	Survey	Dummy and BHEM Z QTBL0017
1-August-2022	Survey	Dummy and BHEM Z QTBL0019
2-August-2022	Survey	Dummy and BHEM Z QTBL0014
3-August-2022	Survey	Dummy and BHEM ZXY QTBL0018
4-August-2022	Survey	Dummy and BHEM ZXY QTBL0017 and XY QTBL 0019
5-August-2022	Survey	BHEM XY QTBL0014
6-August-2022	Survey	Dummy and BHEM ZXY QTBL0020
7-August-2022	Survey	BHEM Detailing ZXY QTBL0020
8-August-2022	Survey	BHEM ZXY QTBL0021
9-August-2022	Looping	Picked up loop 2201 and packing equipment for DEMOB
10-August-2022	DEMOB	DEMOB to Sault St. Marie
11-August-2022	DEMOB	DEMOB to Mississauga

Respectfully submitted,

**Norman Shieh, B.Sc.**

Project Geophysicist

Crone Geophysics & Exploration Ltd.



APPENDIX 1: BOREHOLE SURVEY RESULTS



666,900m E      667,000m E      667,100m E      667,200m E      667,300m E      667,400m E      667,500m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
Hole and Loop Location Map  
Borehole Induction Pulse EM Survey

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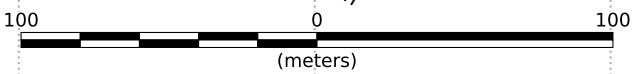
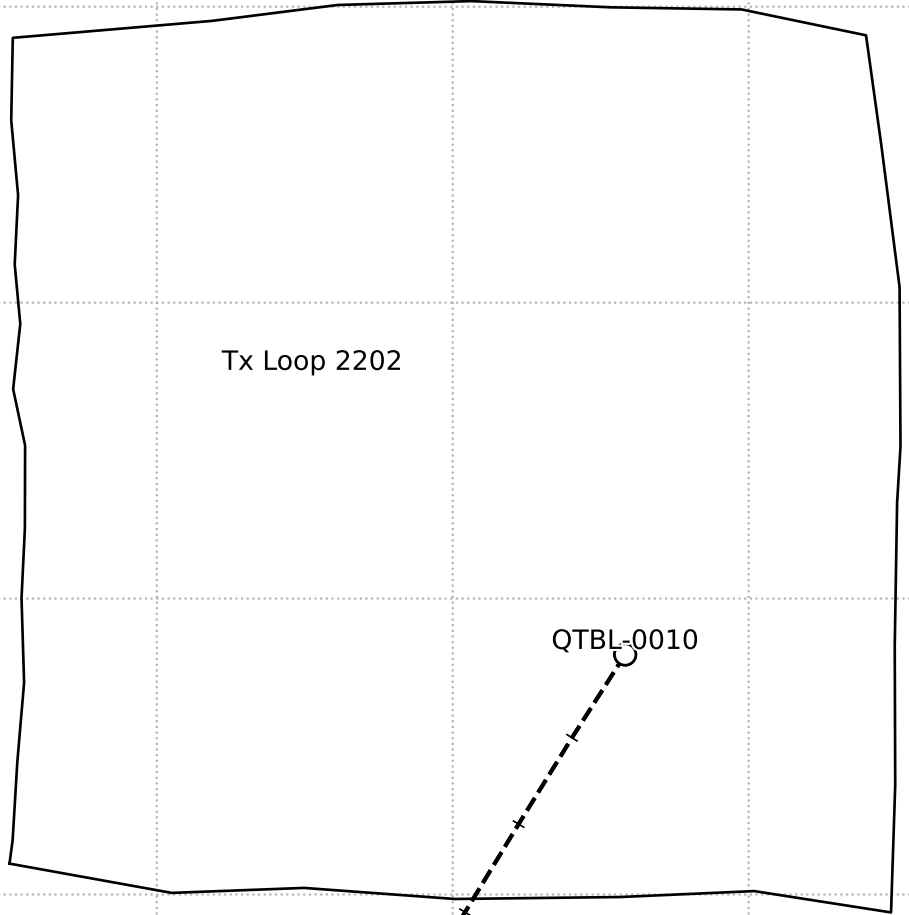
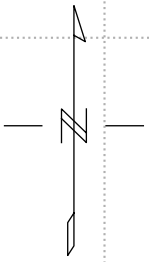
Rio Tinto Exploration  
Baril Lake  
Hole: QTBL-0010    Loop: 2202

---

Timebase: 16.66 ms  
Survey Date: July 10, 2022

---

*NAD83 / UTM zone 15N*      *Scale 1:2,500*

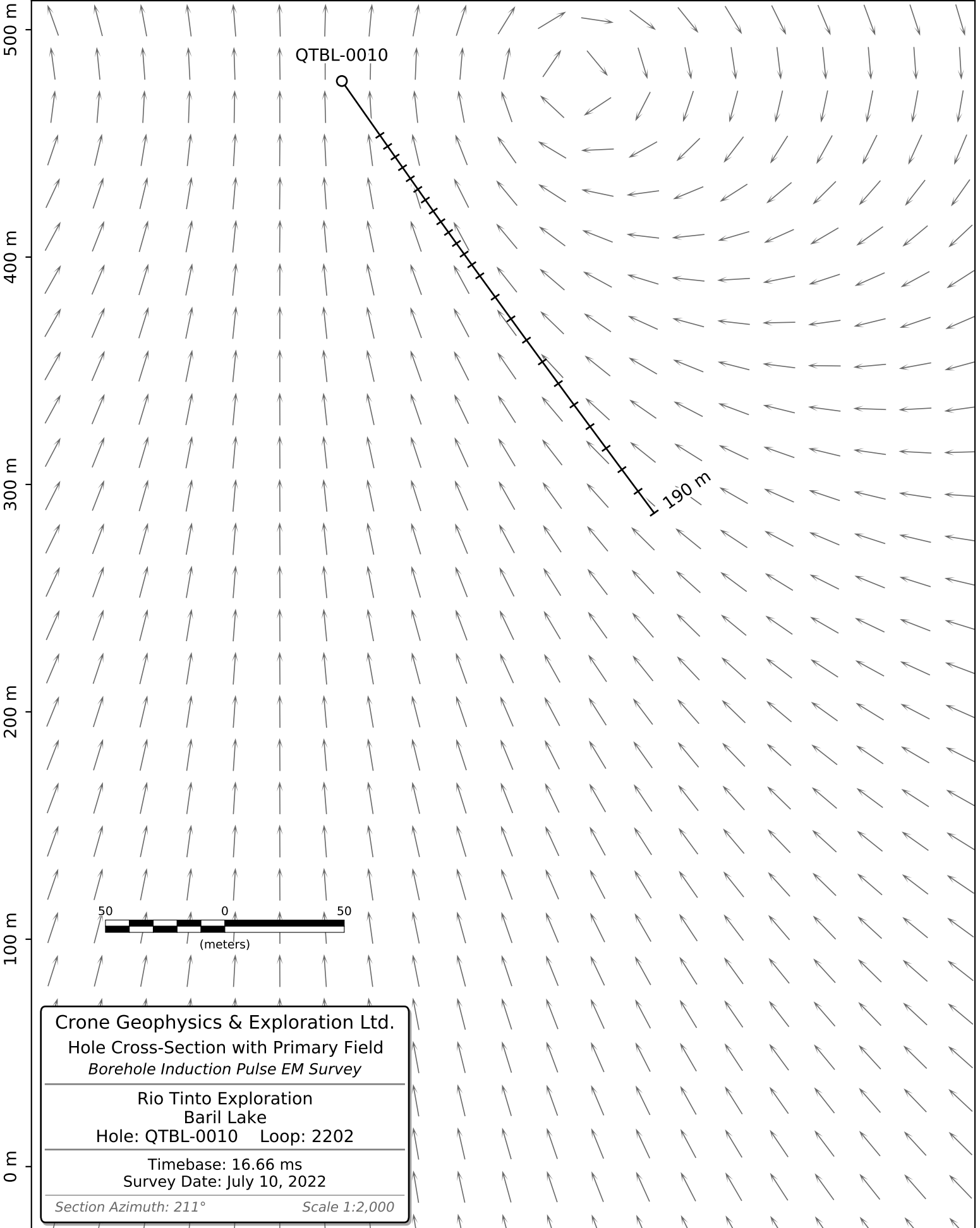


**Legend**  
— Transmitter Loop  
-+- Borehole Trace



667,325m E  
5,401,593m N

667,120m E  
5,401,255m N

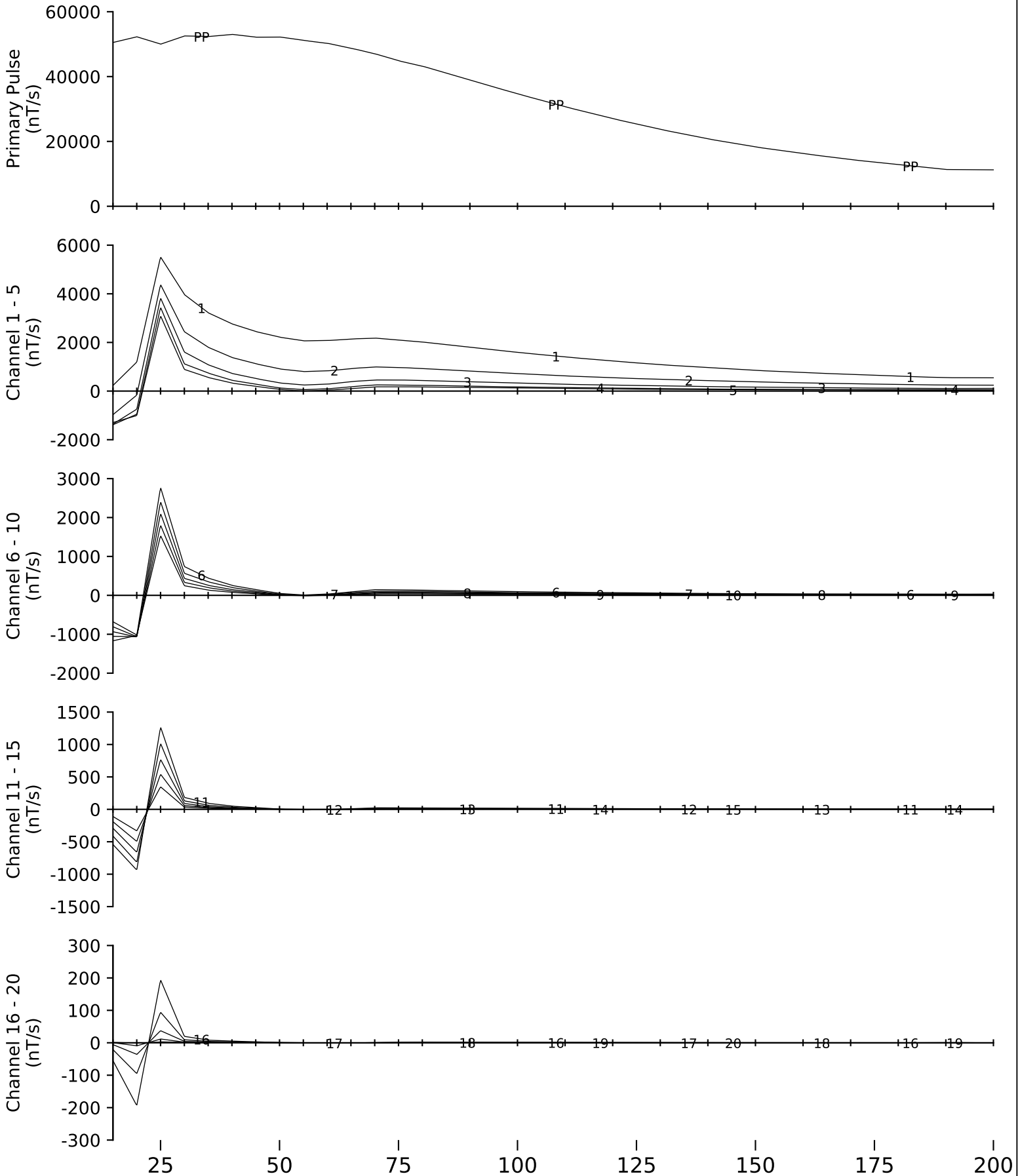


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

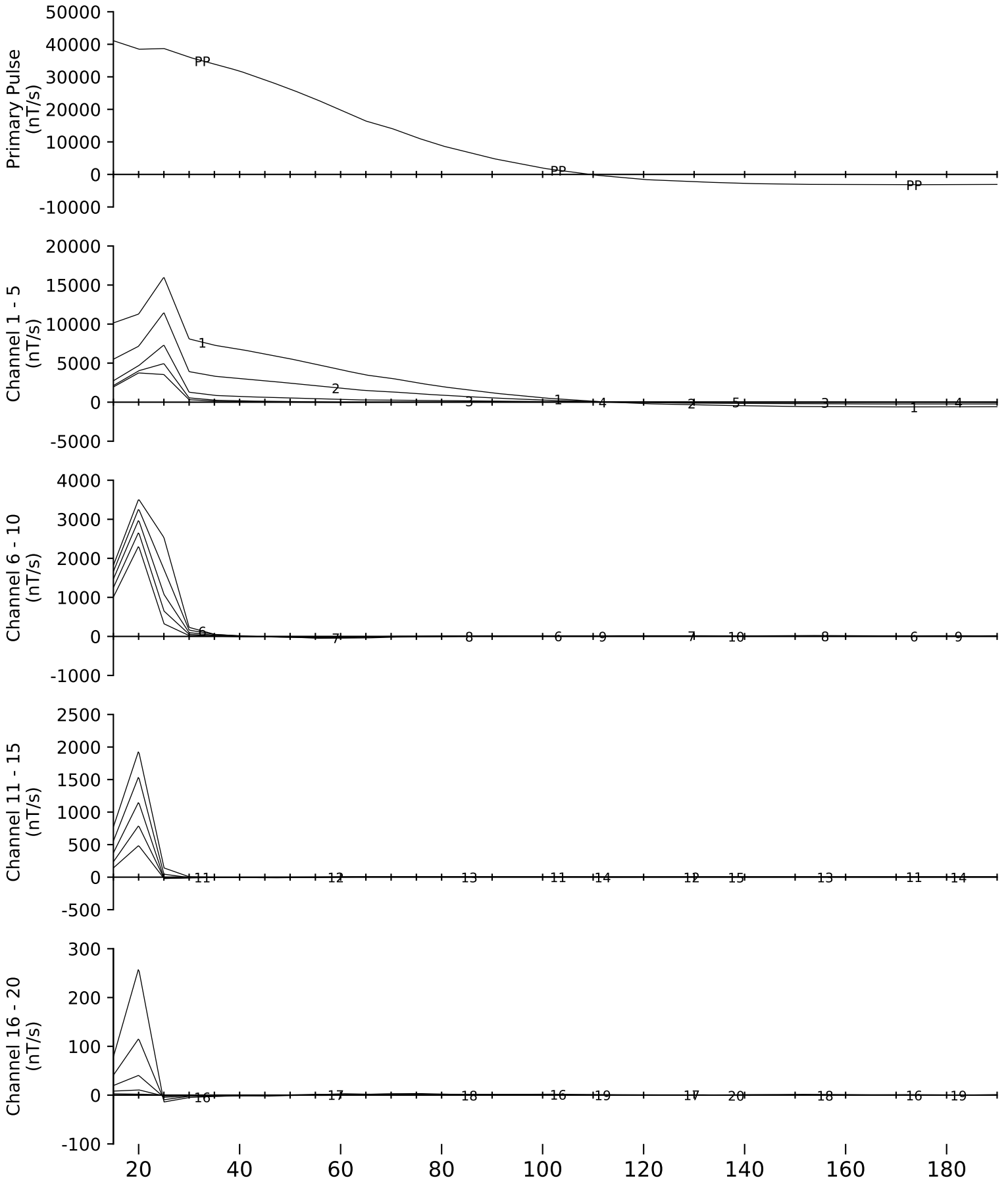


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
X Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

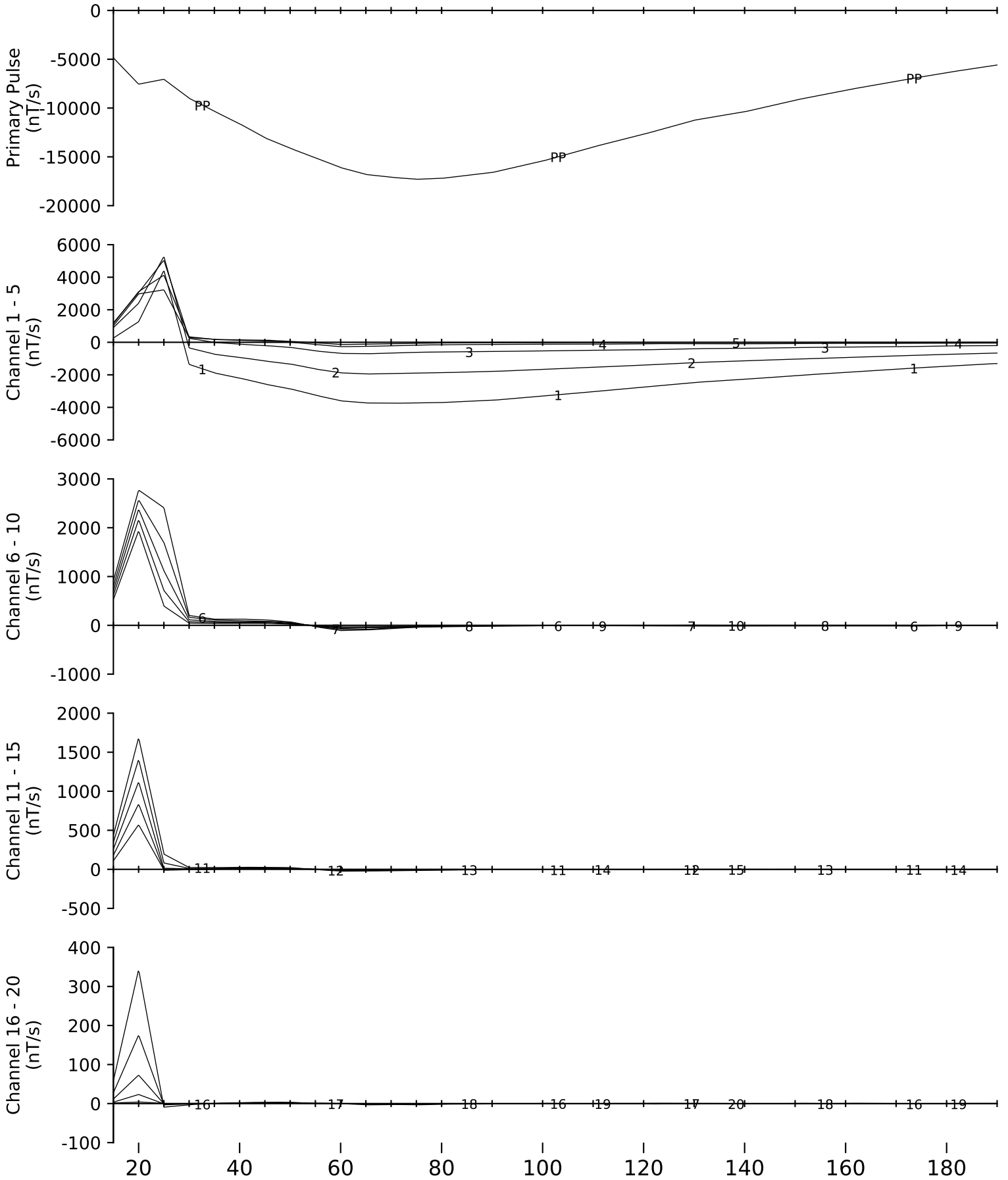


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022



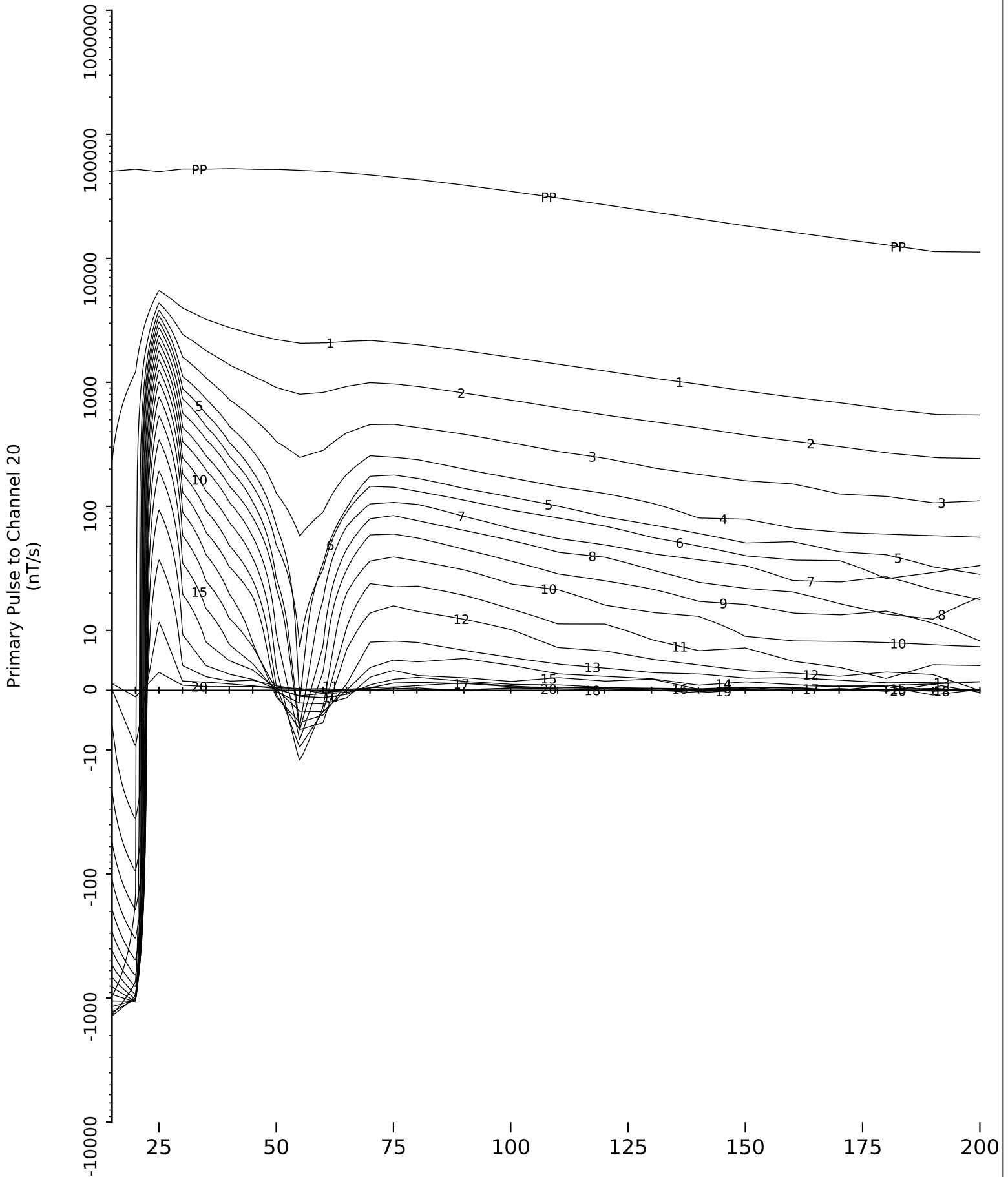


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

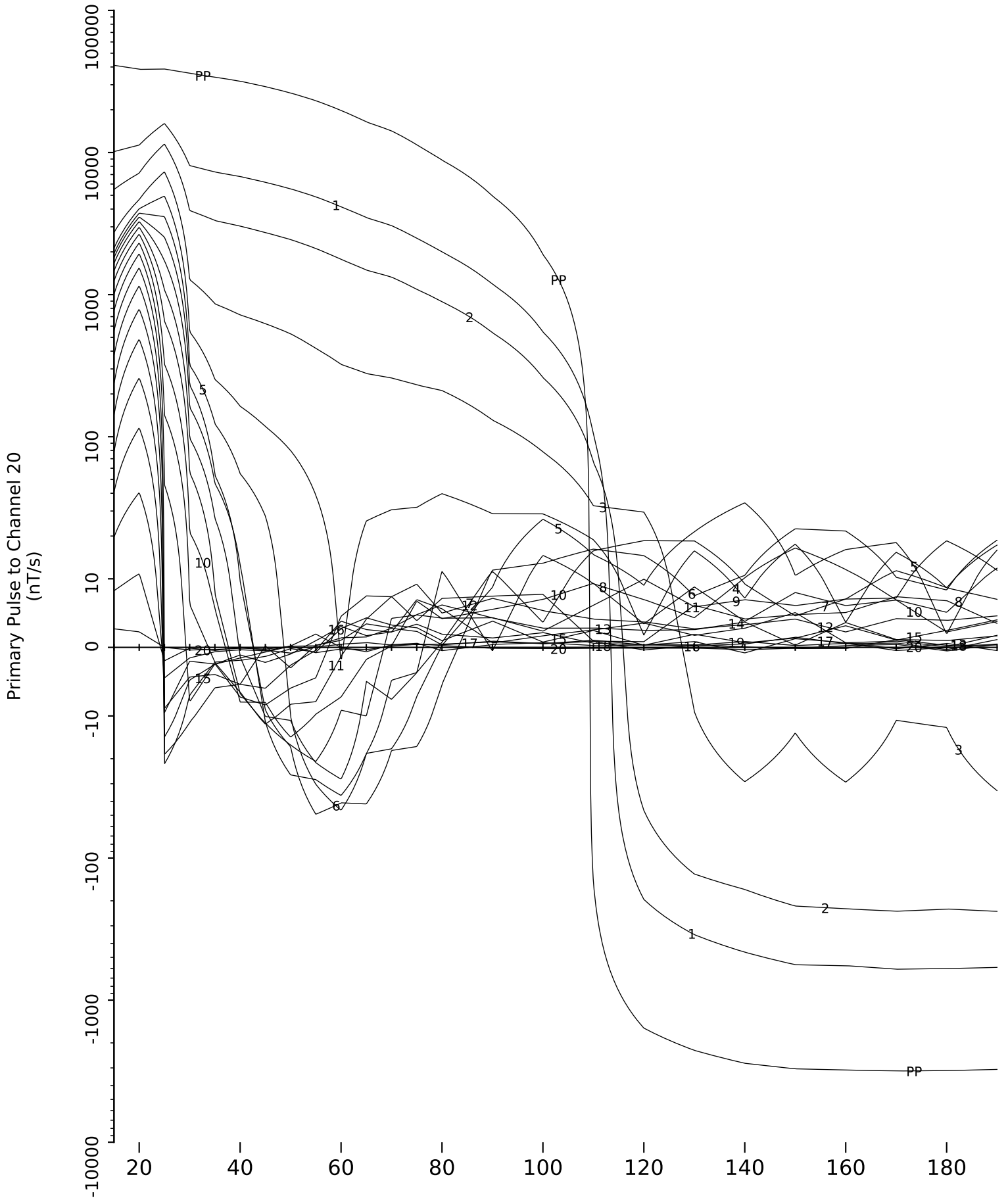


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
X Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

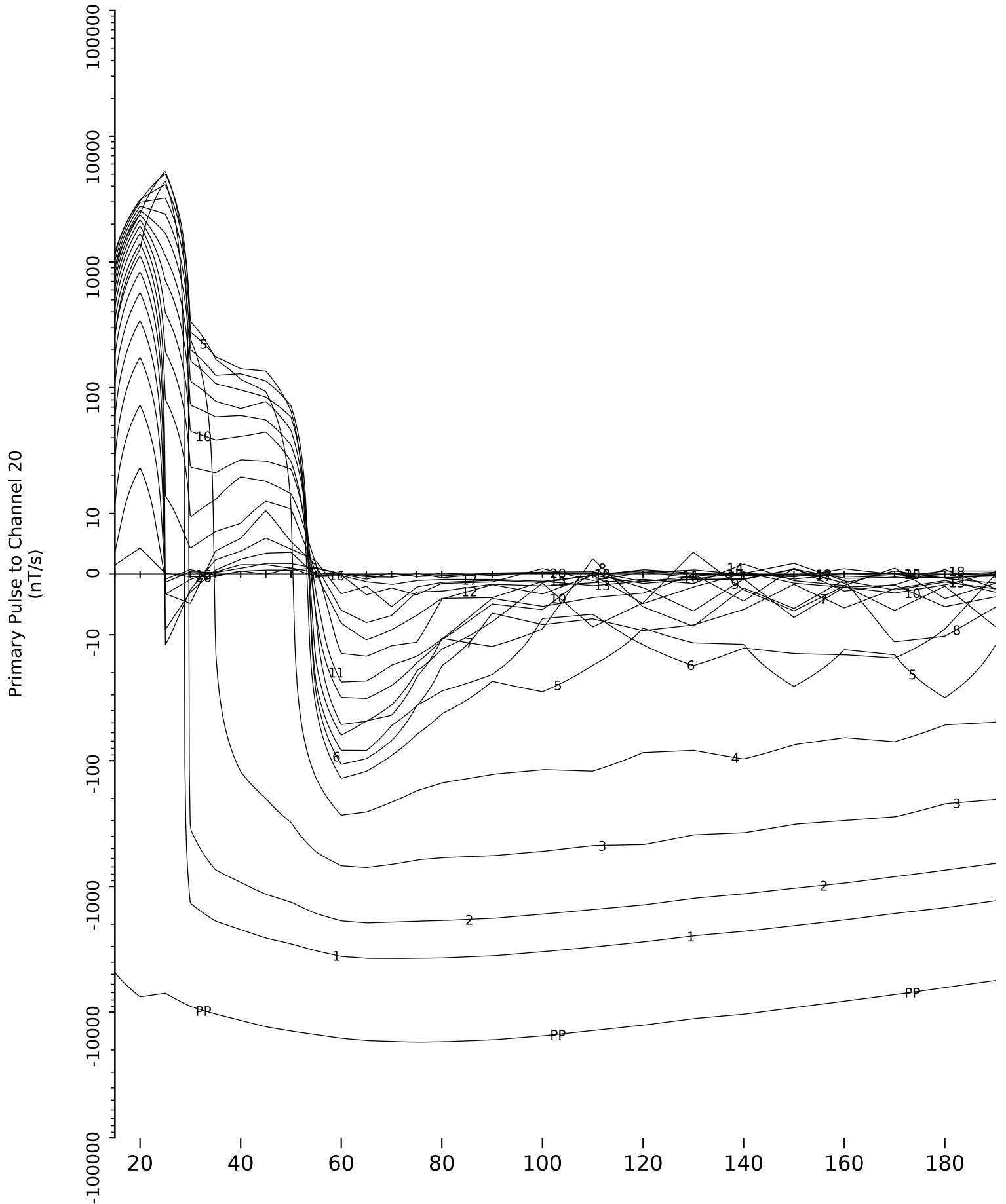


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

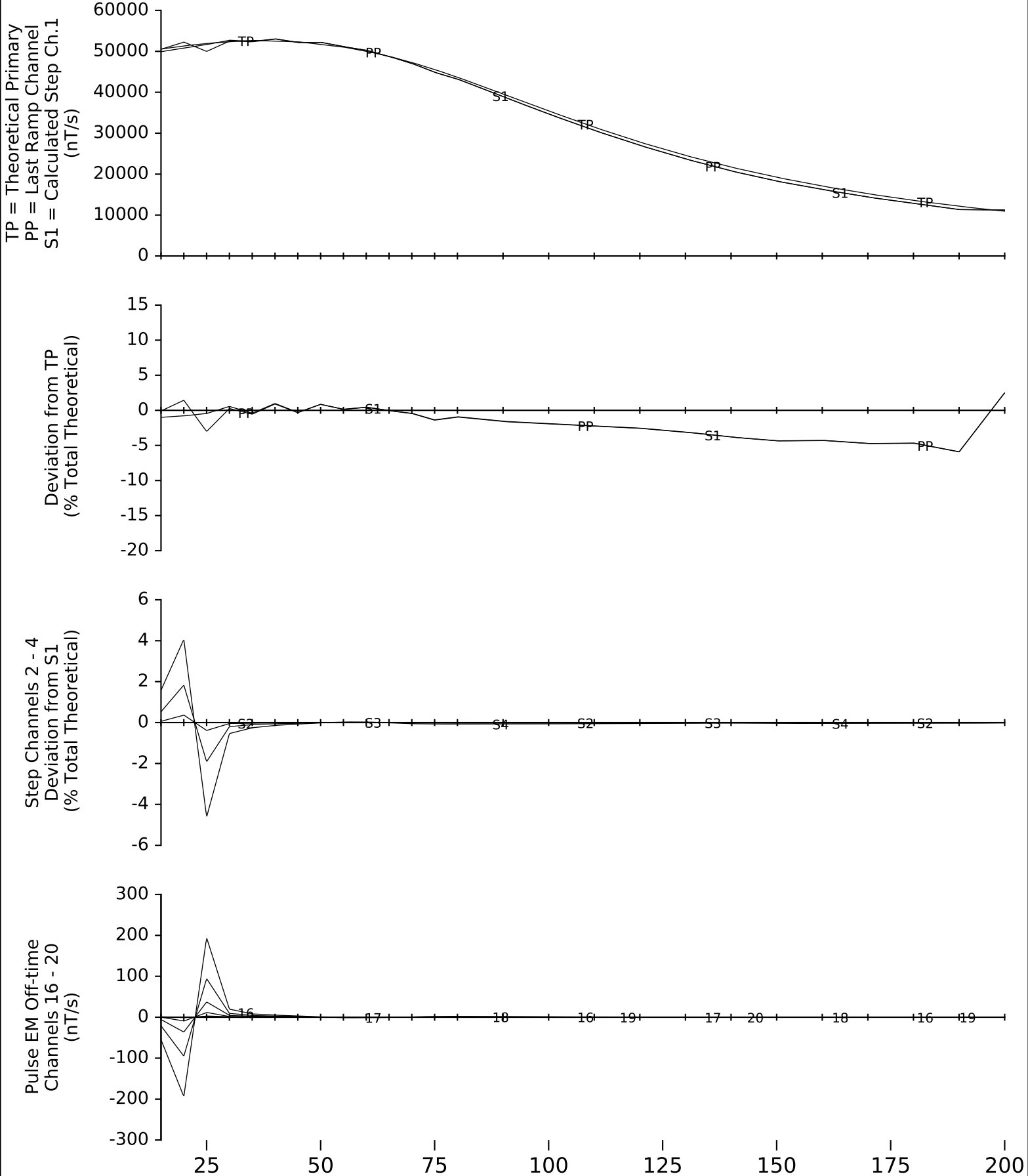


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022





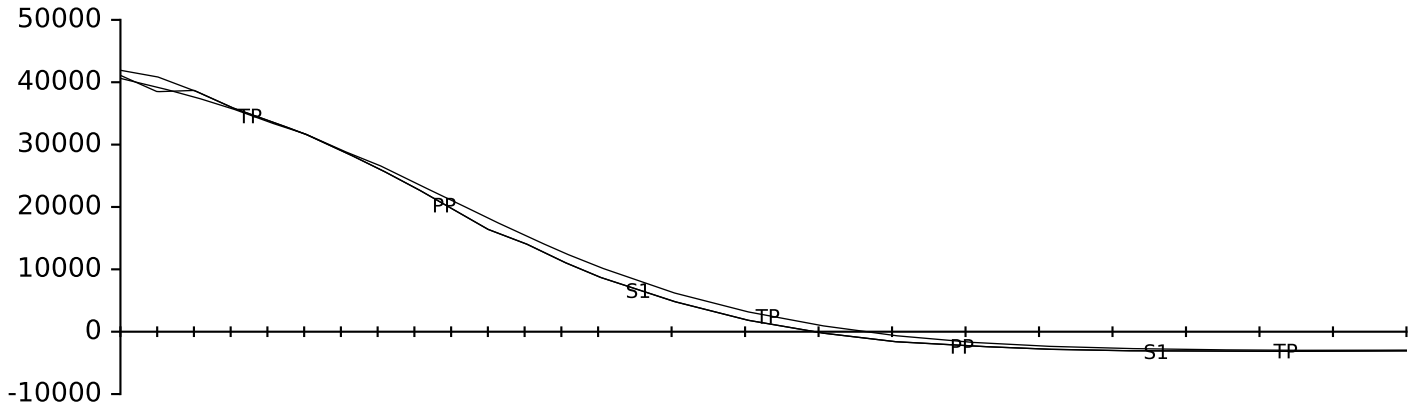
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

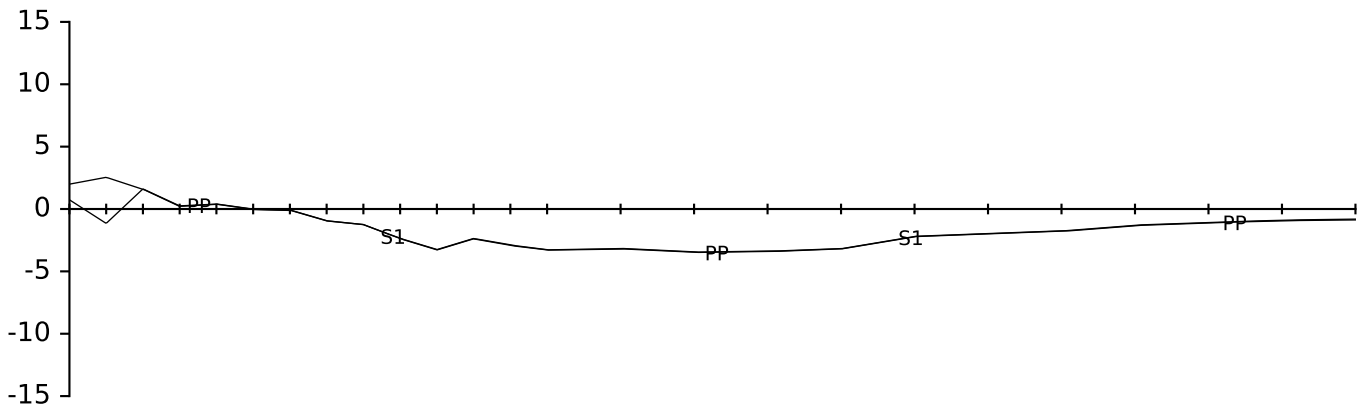
Hole: QTBL-0010  
Loop: 2202  
X Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022

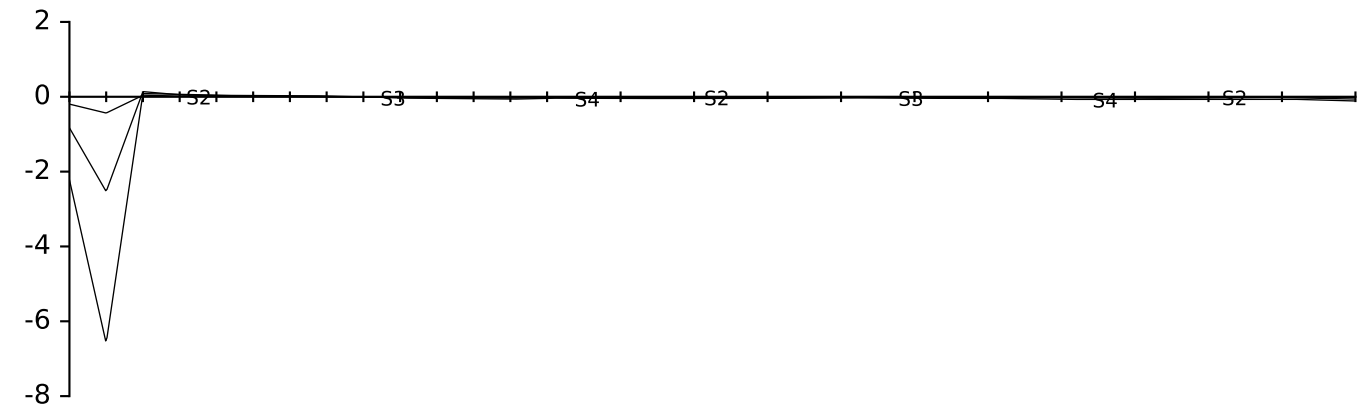
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



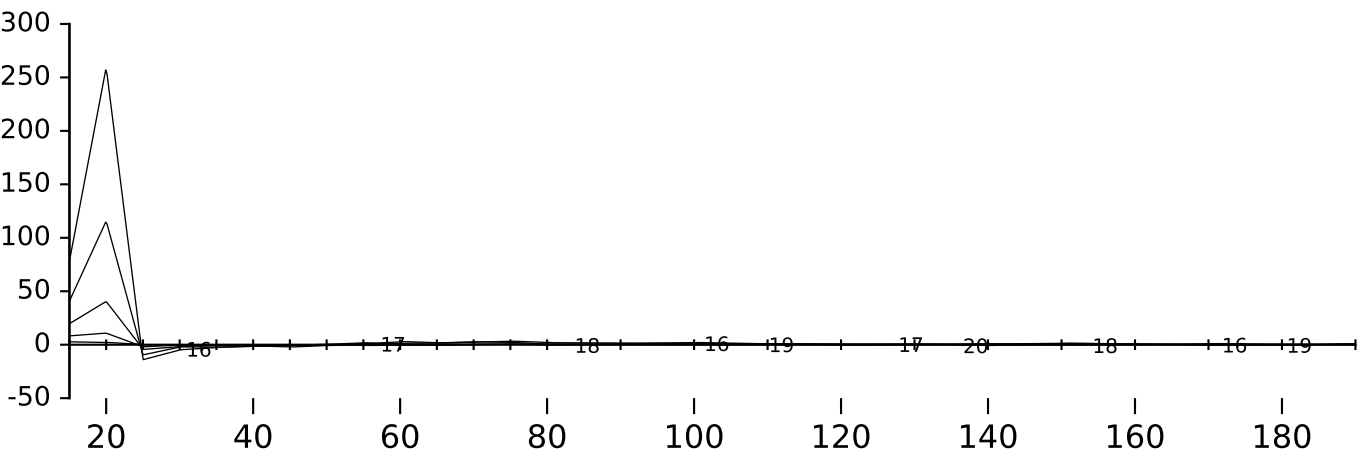
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)

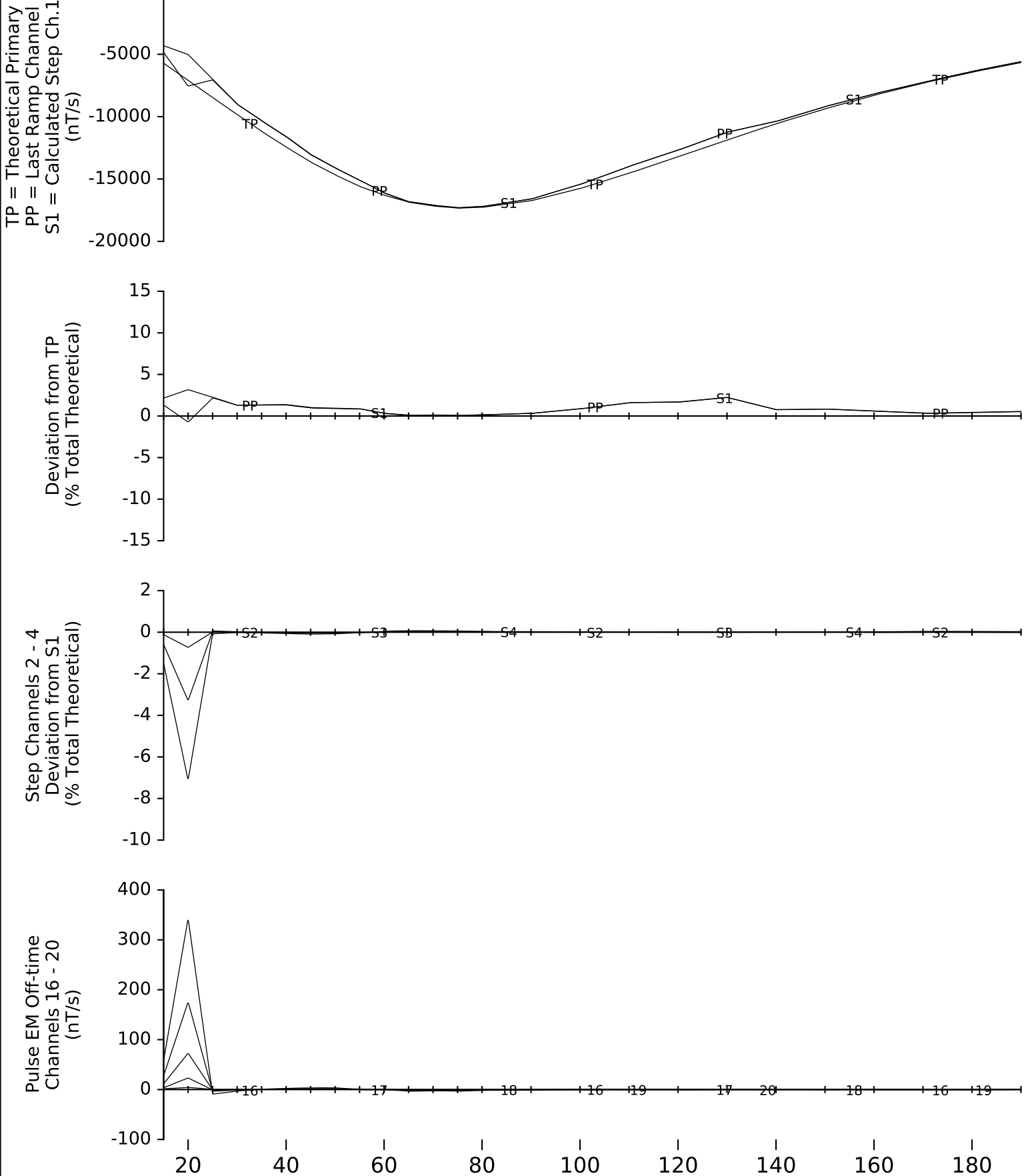


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0010  
Loop: 2202  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 10, 2022



666,400m E

666,600m E

666,800m E

667,000m E

667,200m E

667,400m E

5,402,000m N

5,401,800m N

5,401,600m N

5,401,400m N

5,401,200m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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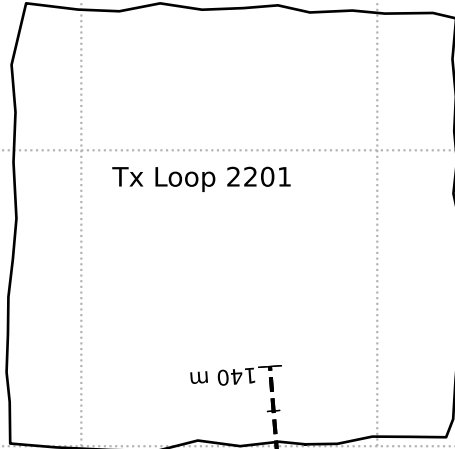
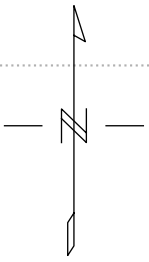
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0011 Loop: 2201

---

Timebase: 16.66 ms  
 Survey Date: July 08 - July 09, 2022

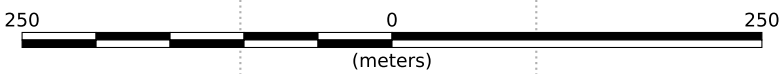
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*NAD83 / UTM zone 15N* *Scale 1:5,000*



140 m

QTBL-0011

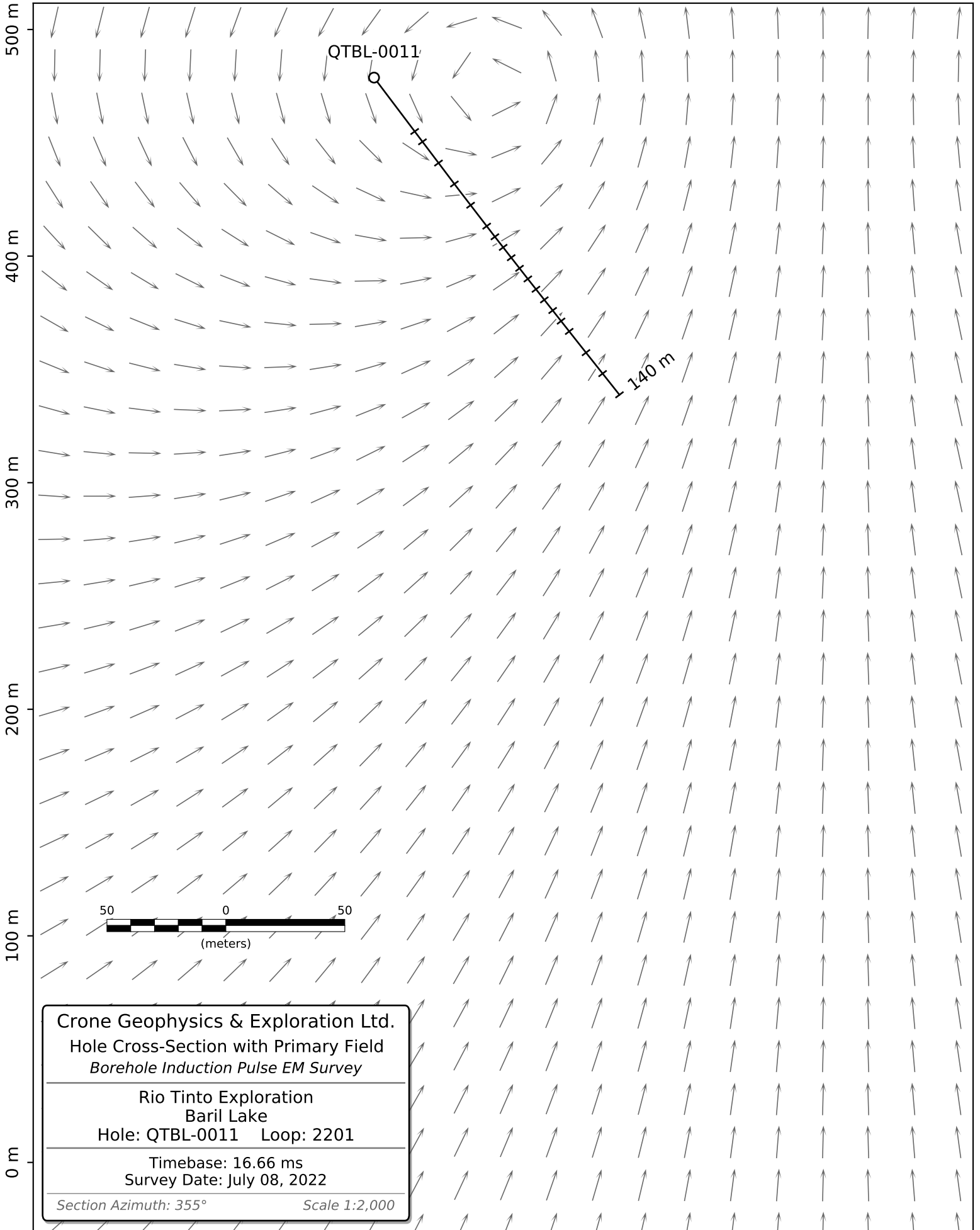


**Legend**

- Transmitter Loop
- +- Borehole Trace

666,948m E  
5,401,208m N

666,915m E  
5,401,602m N

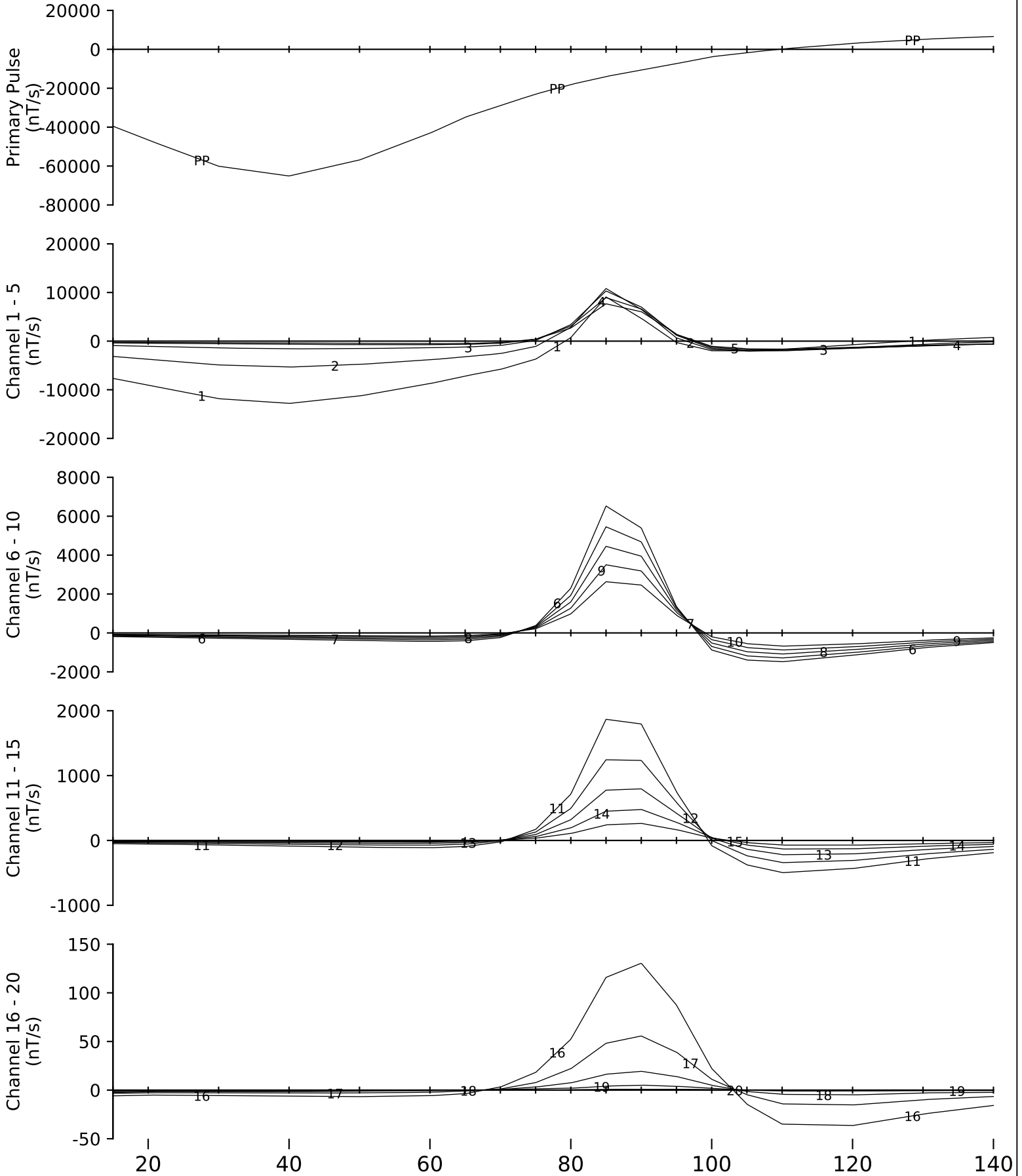


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 8, 2022



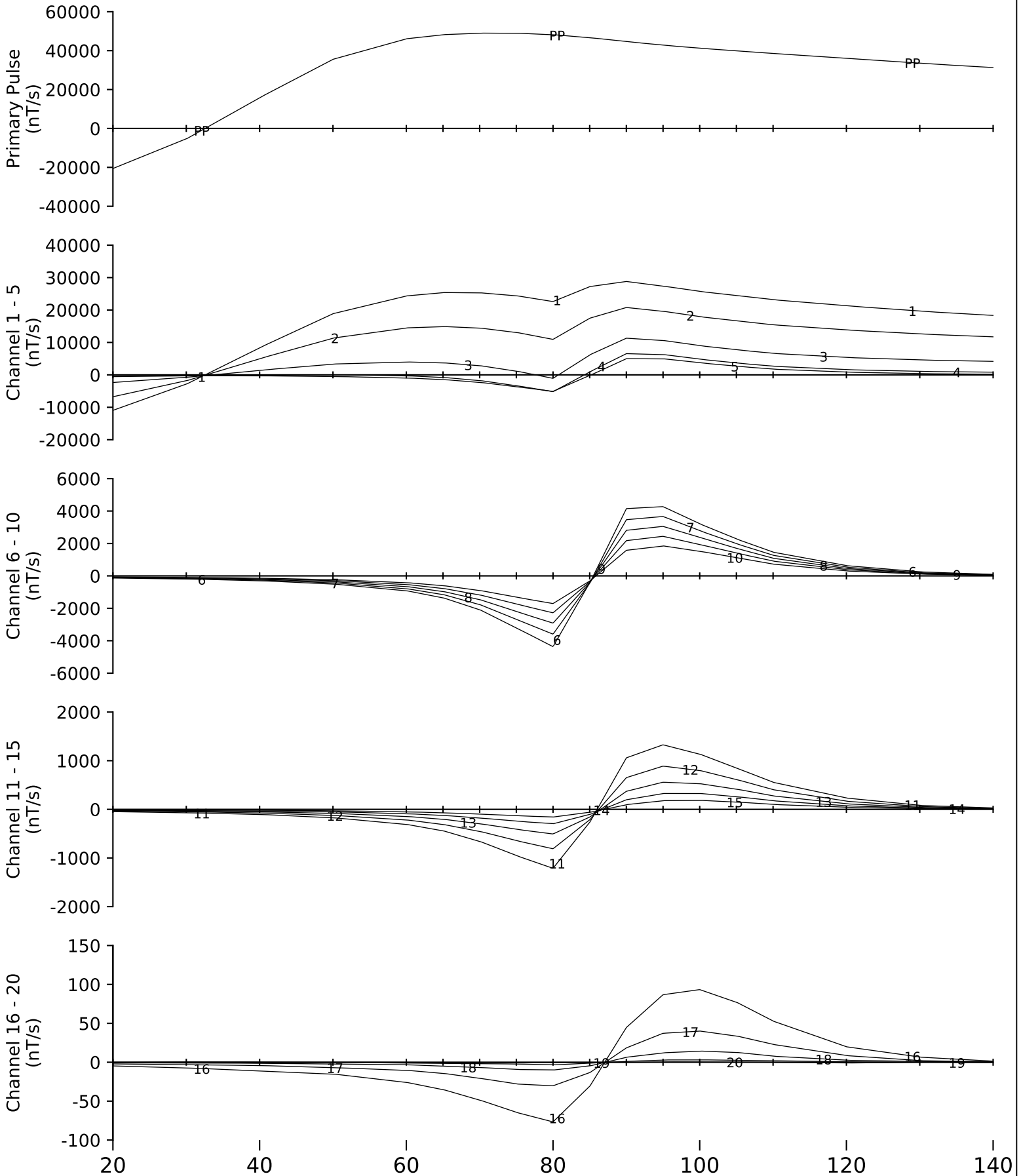


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

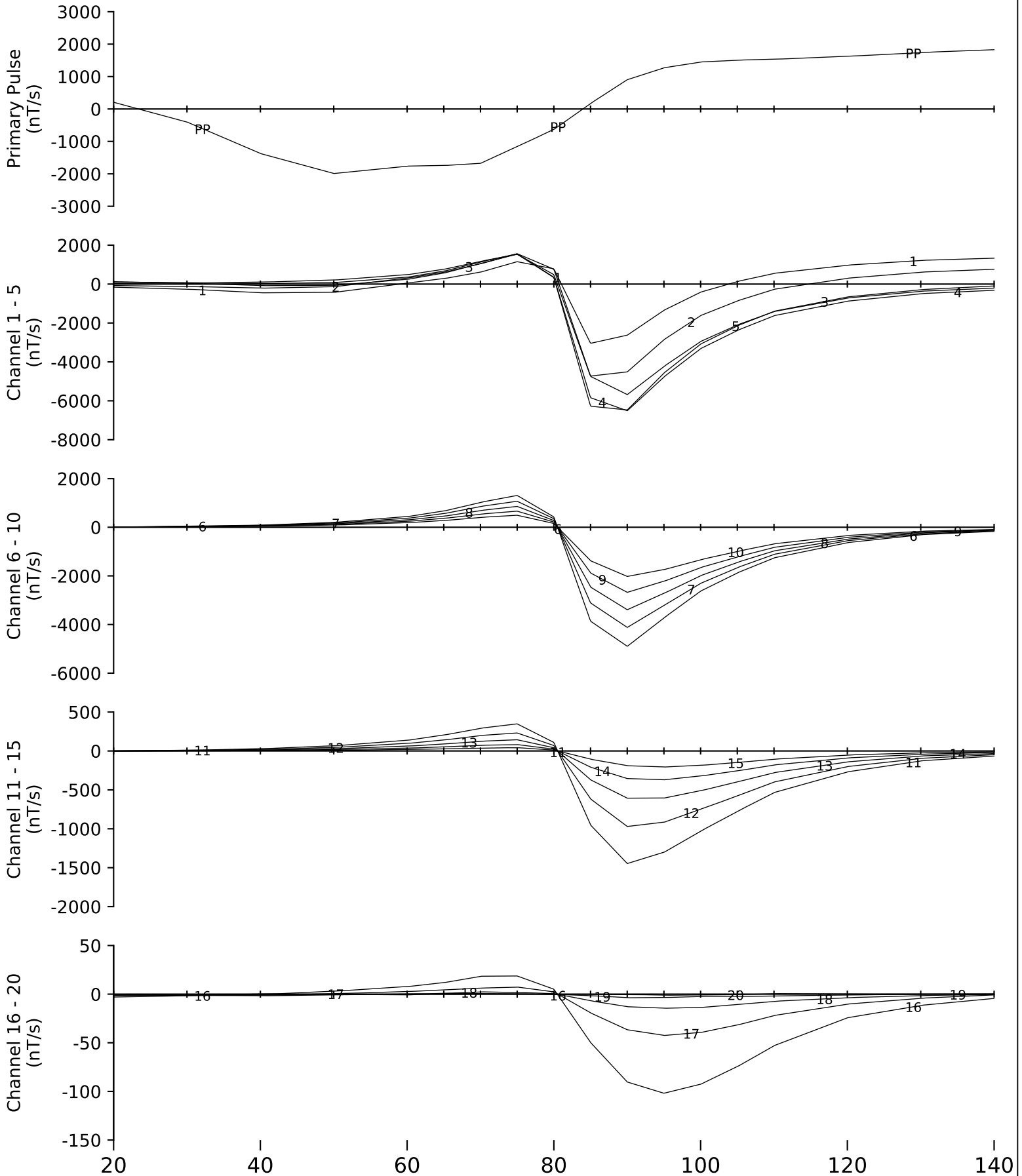


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

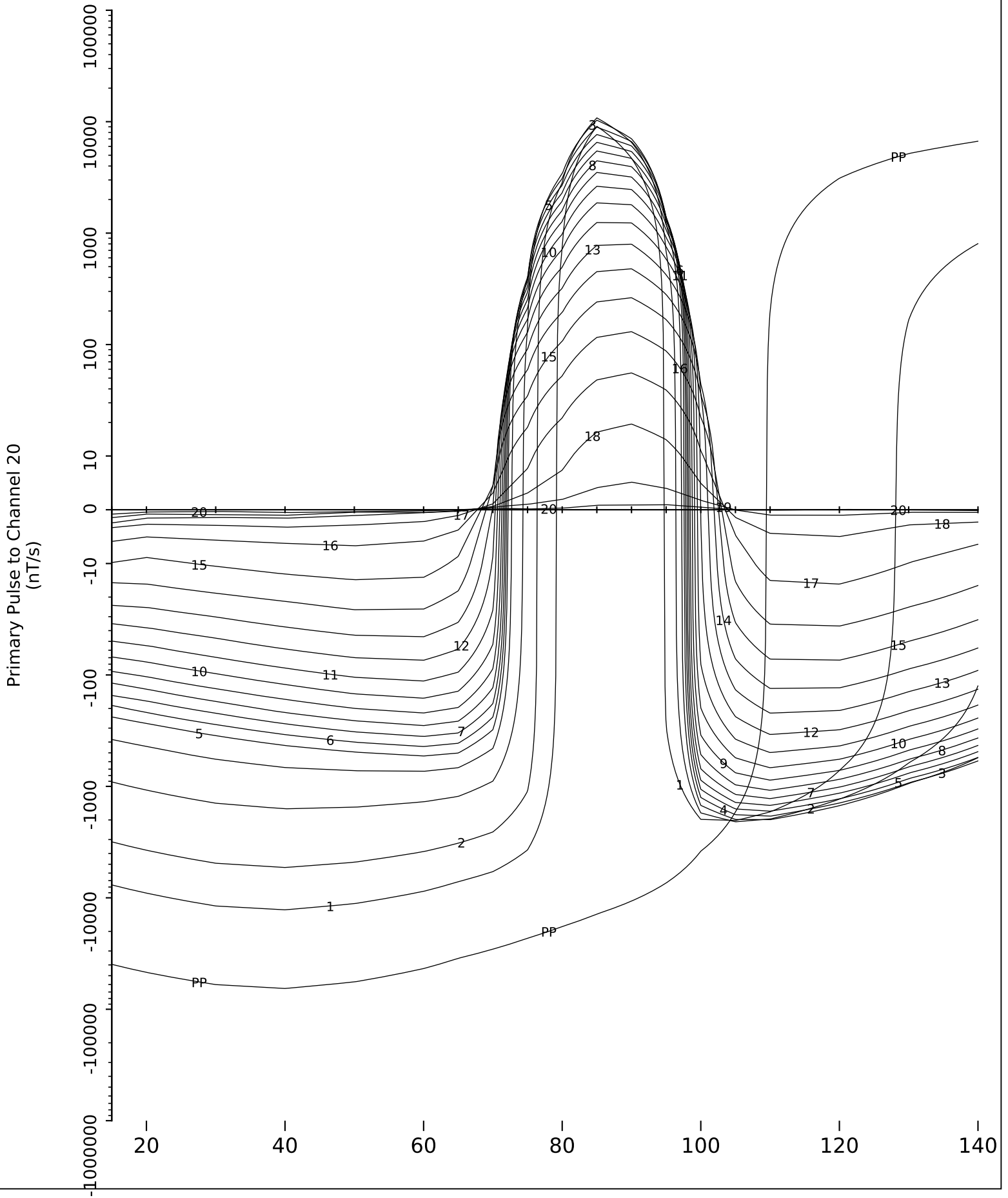


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 8, 2022

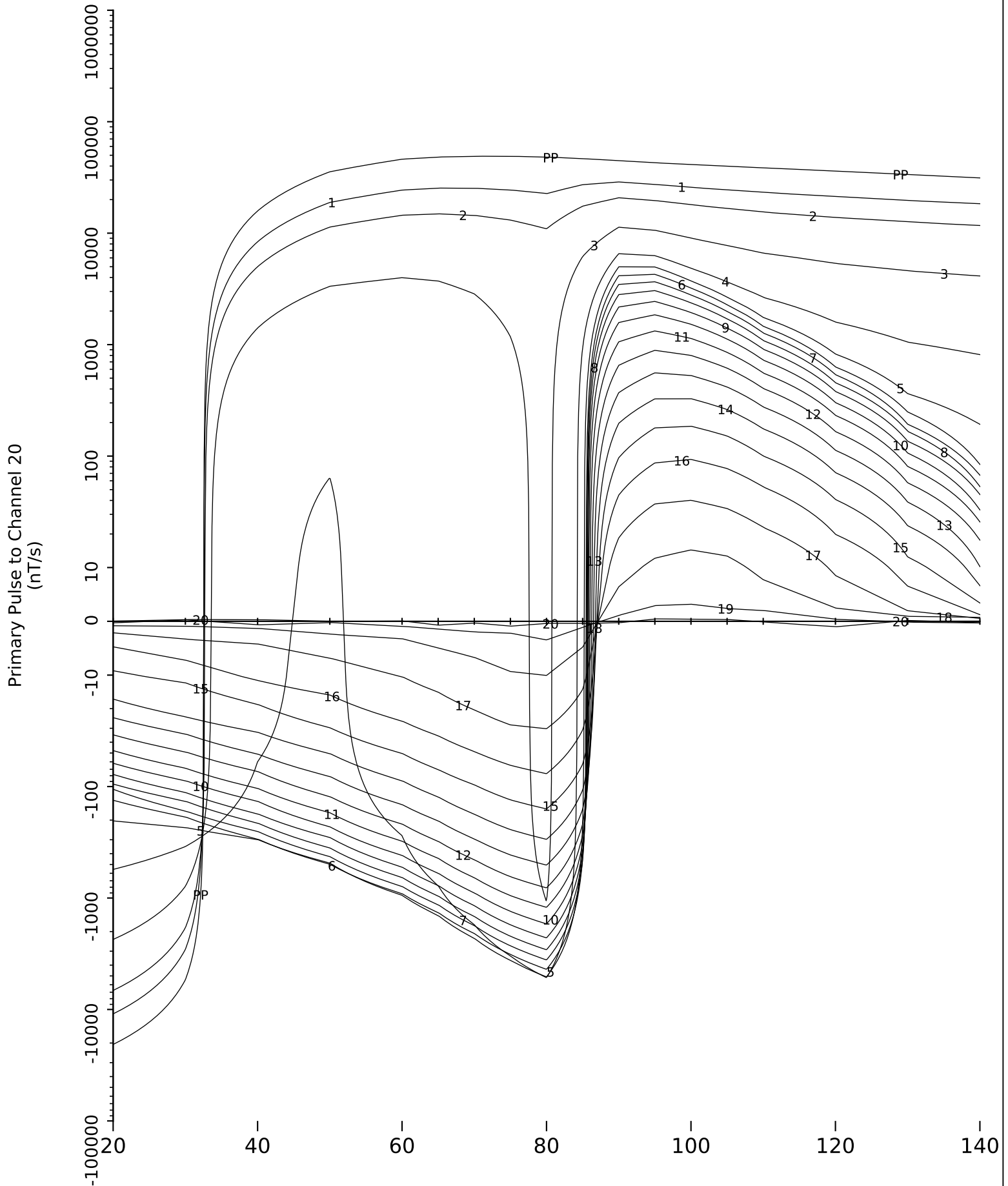


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

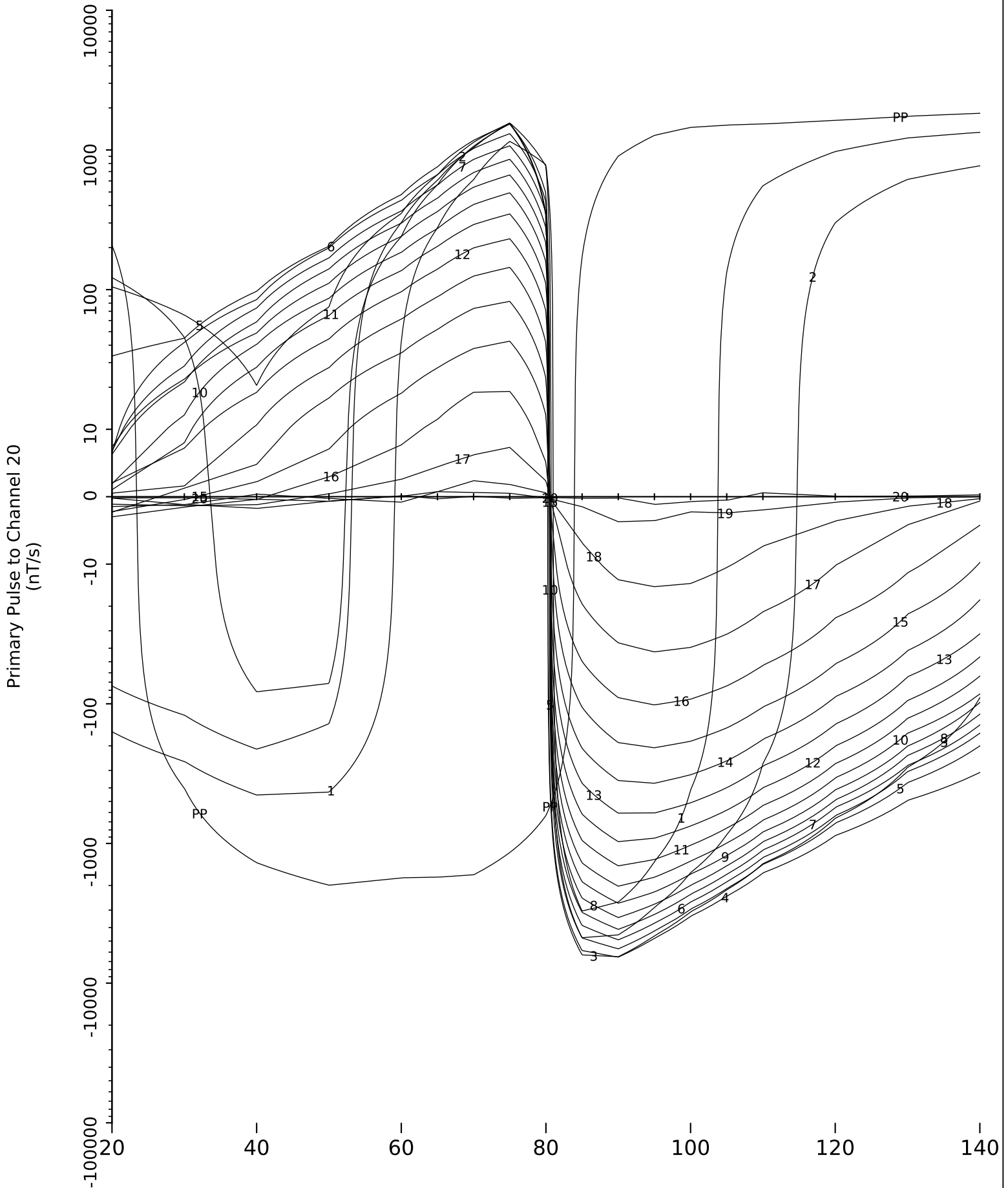


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022



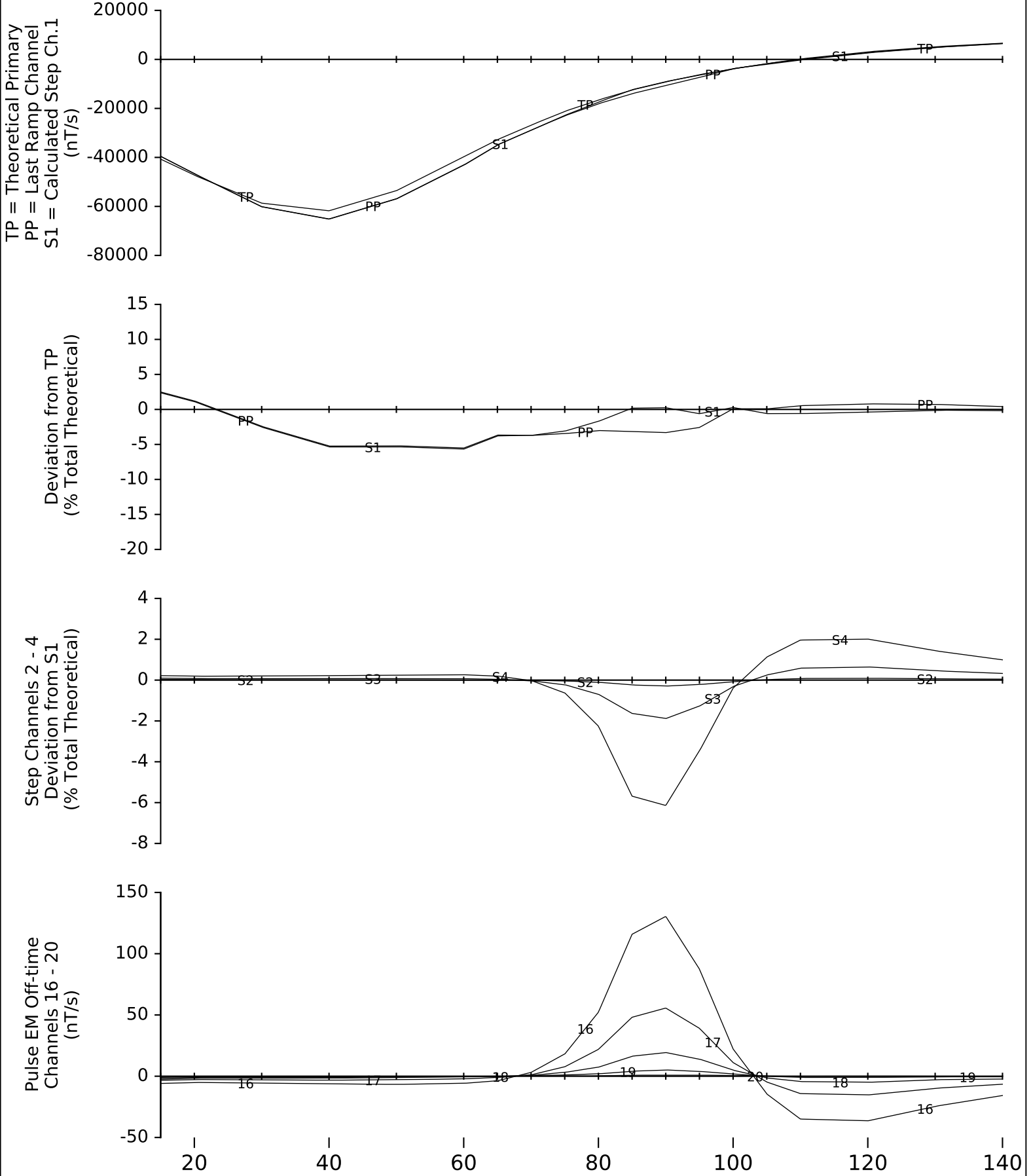


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 8, 2022

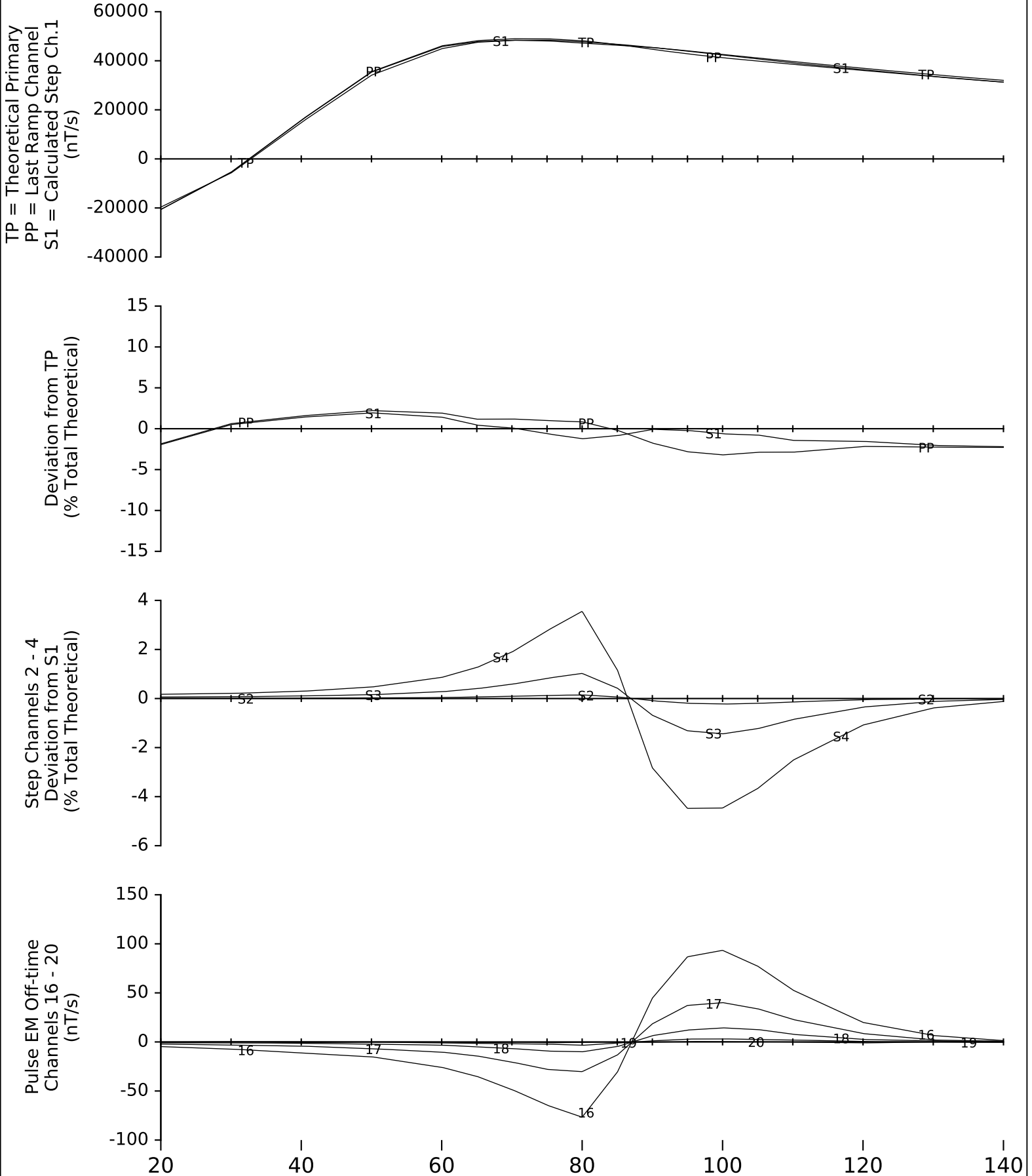


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

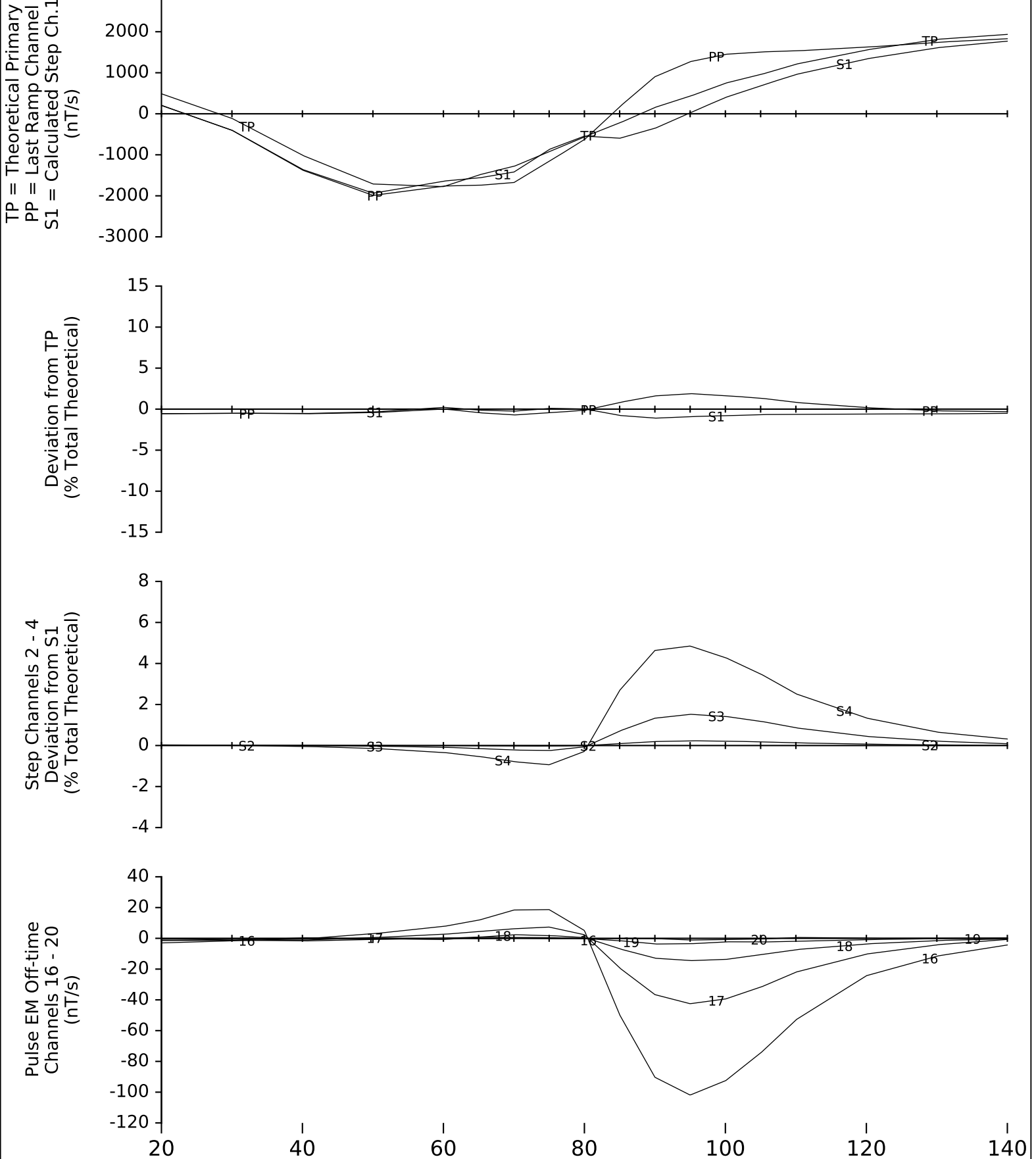


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0011  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022



666,600m E      666,700m E      666,800m E      666,900m E      667,000m E      667,100m E      667,200m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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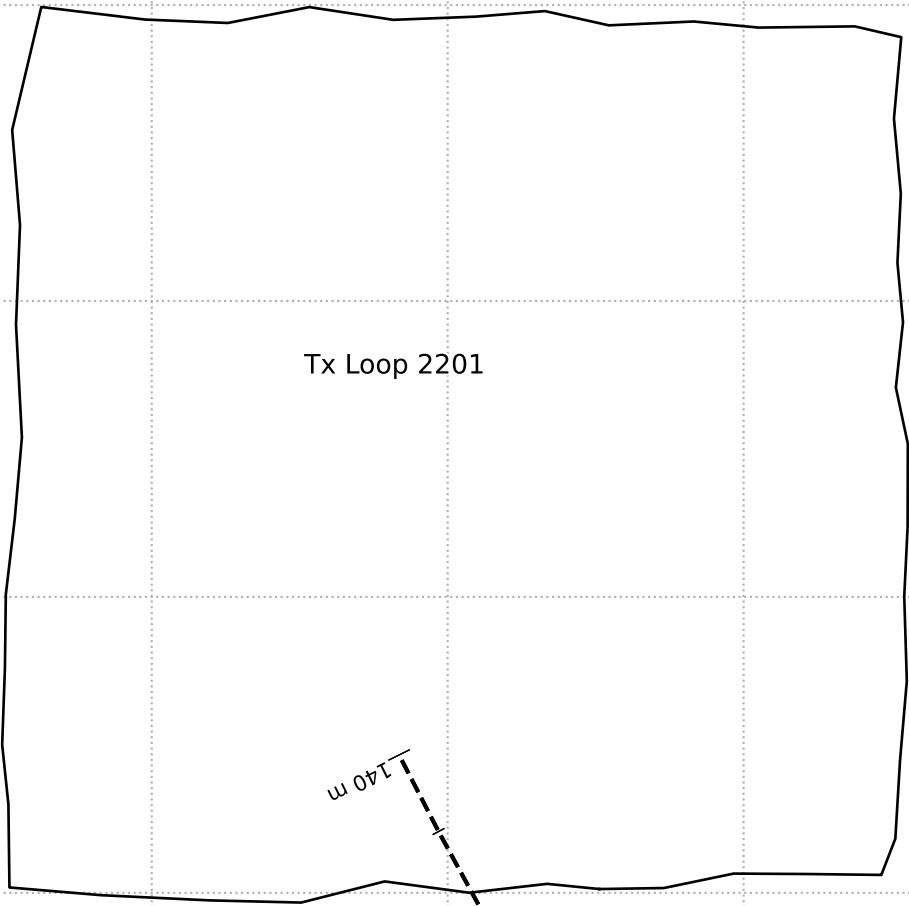
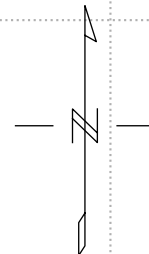
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0012    Loop: 2201

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Timebase: 16.66 ms  
 Survey Date: July 09, 2022

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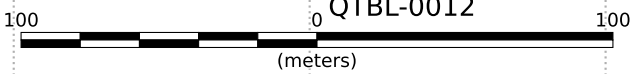
*NAD83 / UTM zone 15N*      *Scale 1:2,500*



Tx Loop 2201

140 m

QTBL-0012

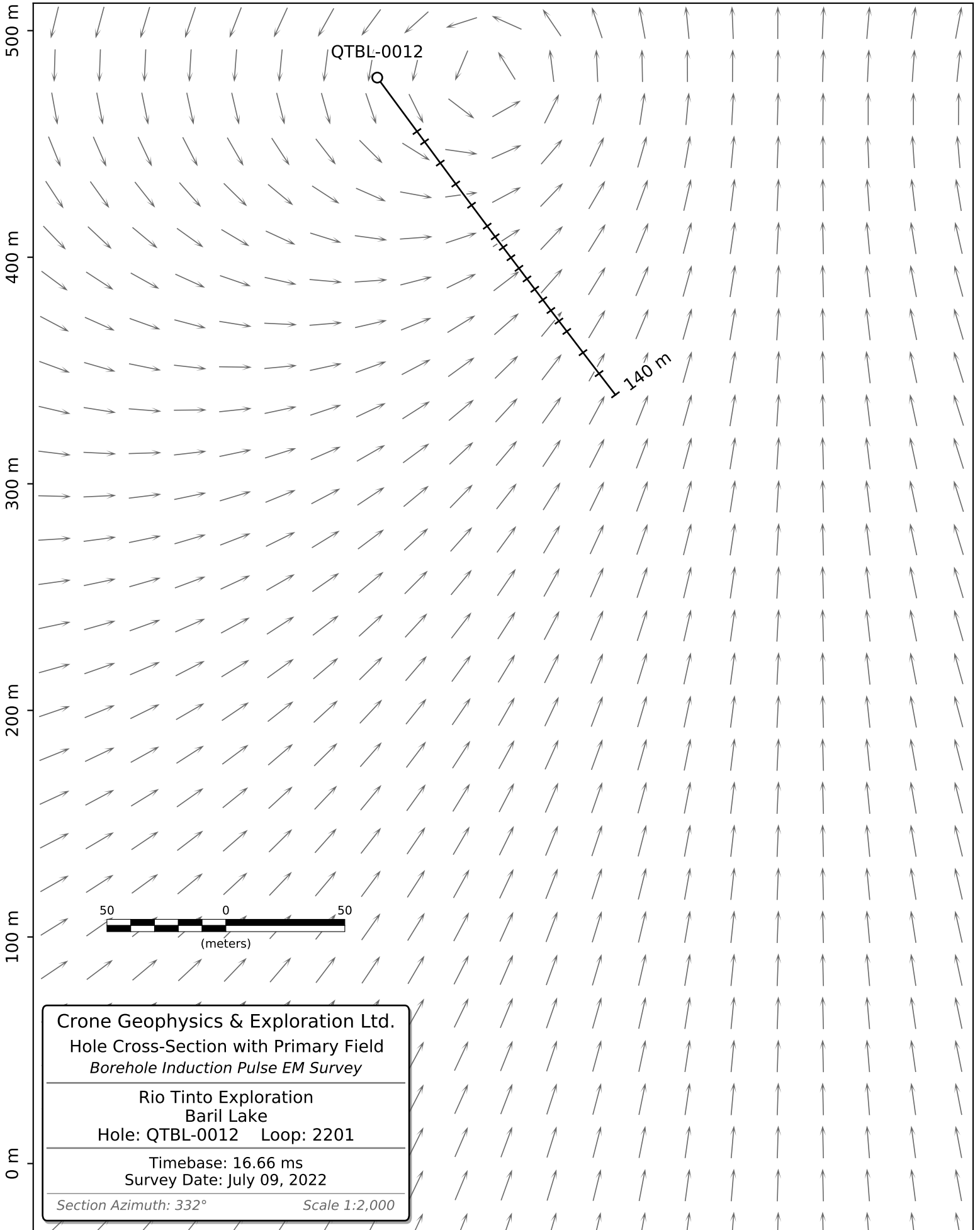


**Legend**

- Transmitter Loop
- +- Borehole Trace

666,997m E  
5,401,230m N

666,814m E  
5,401,580m N



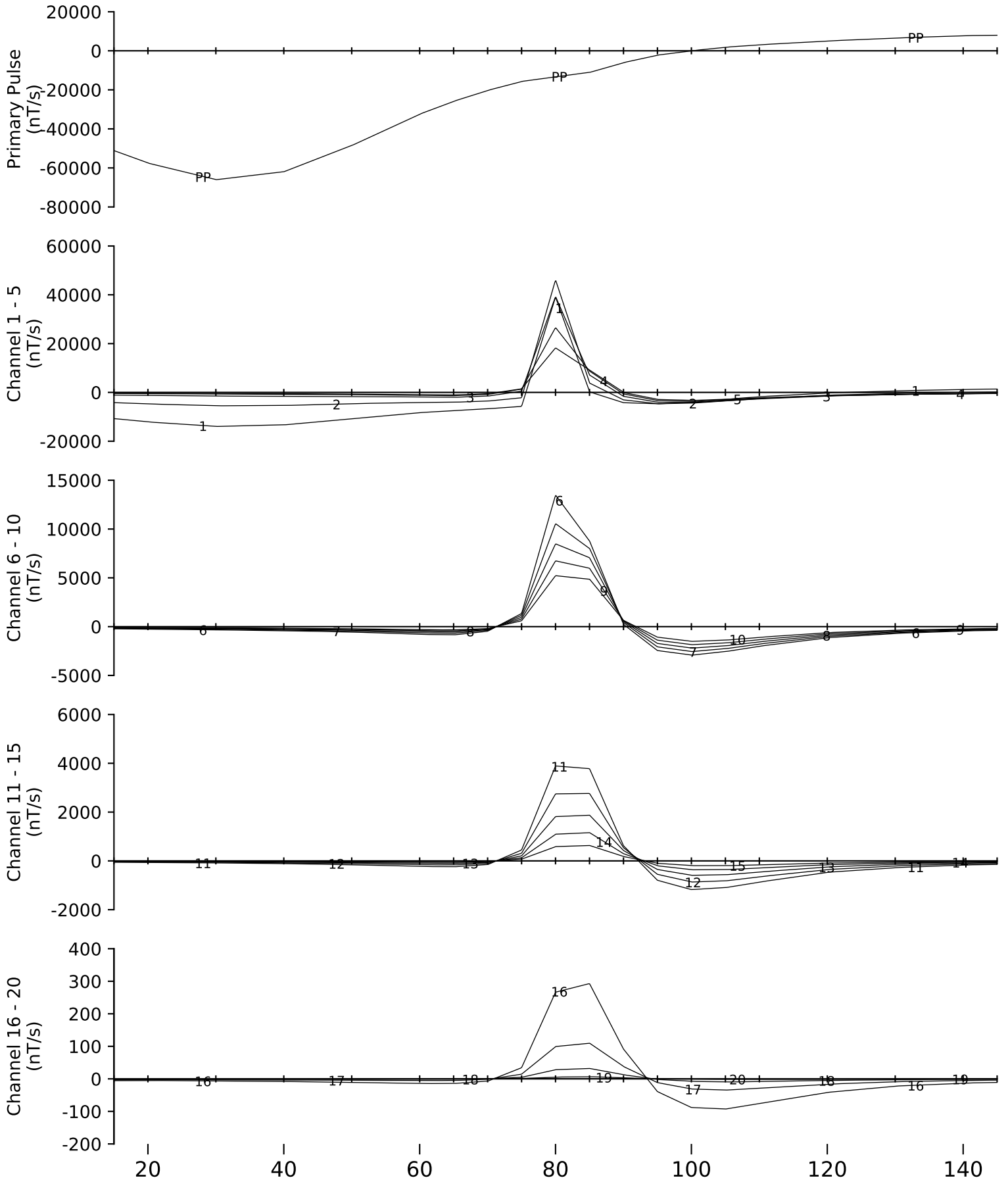


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

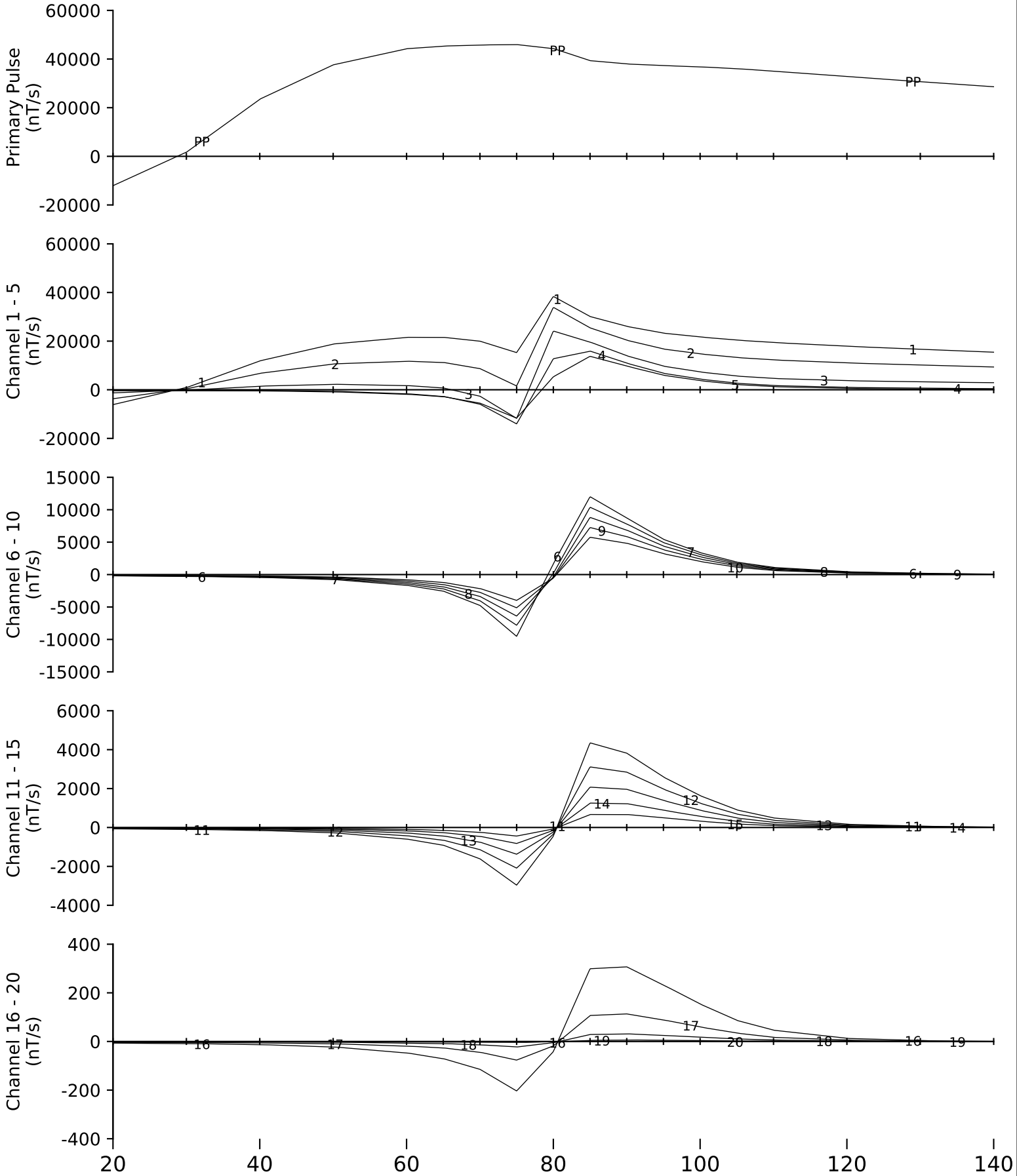


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

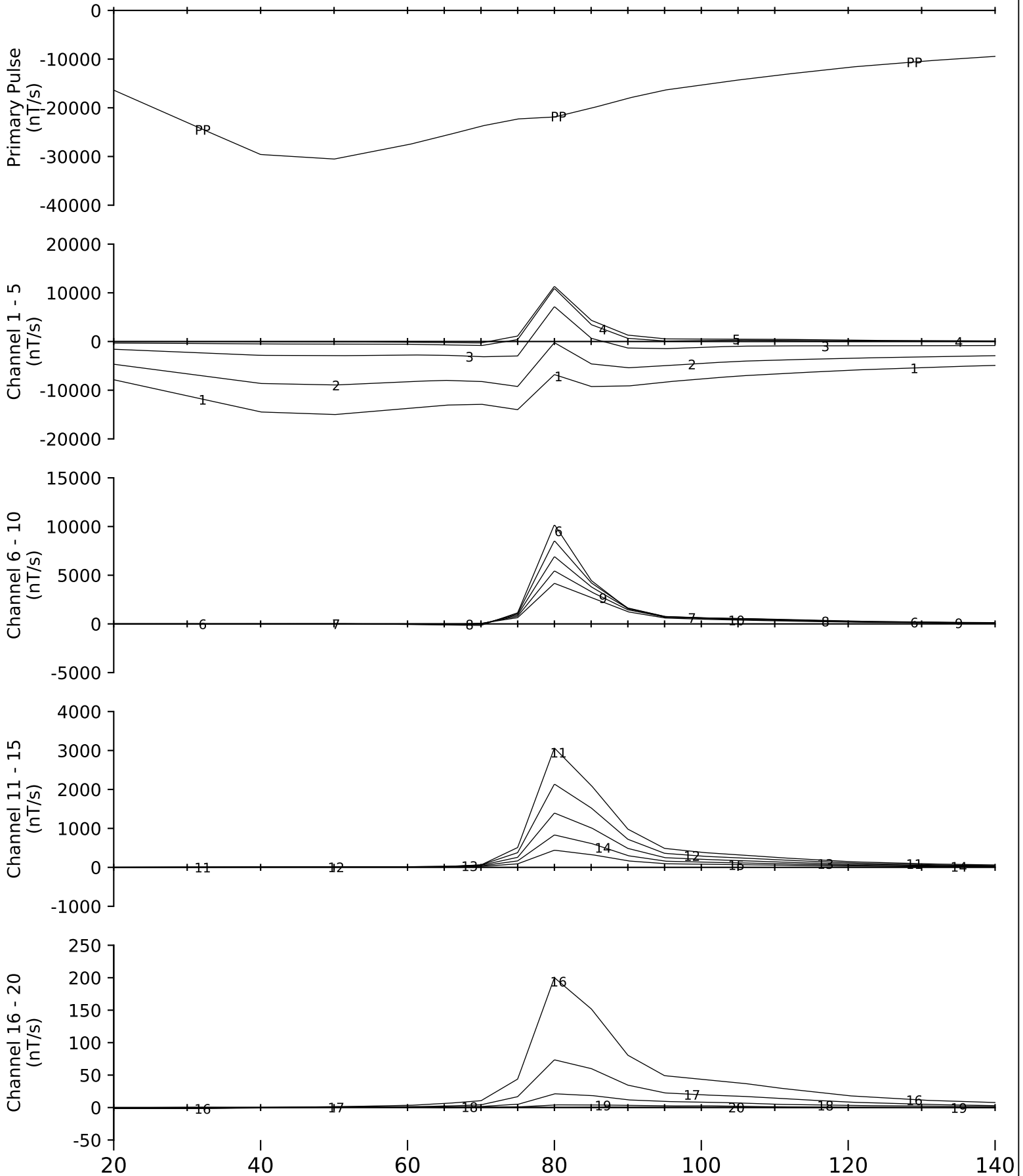


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

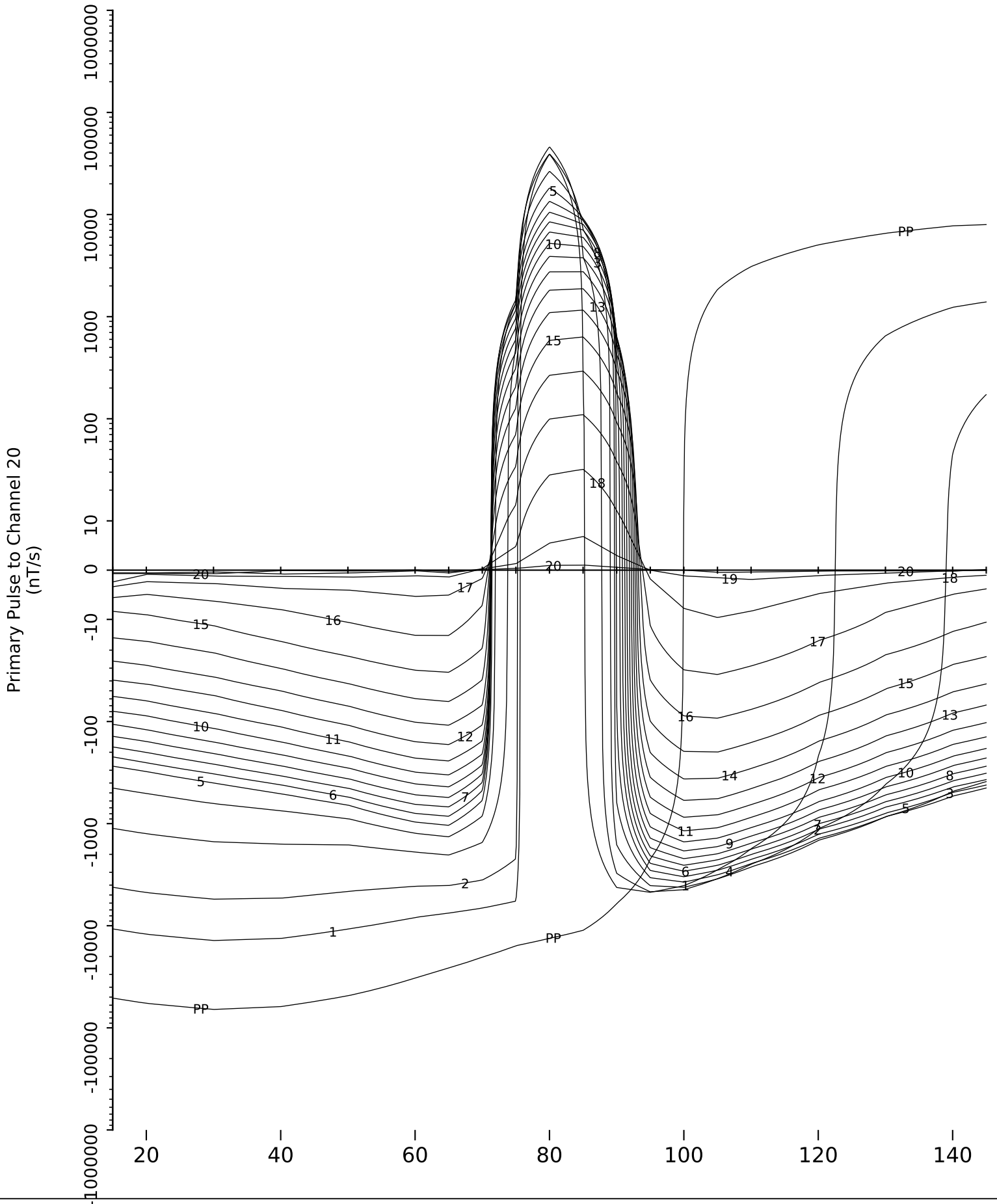


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

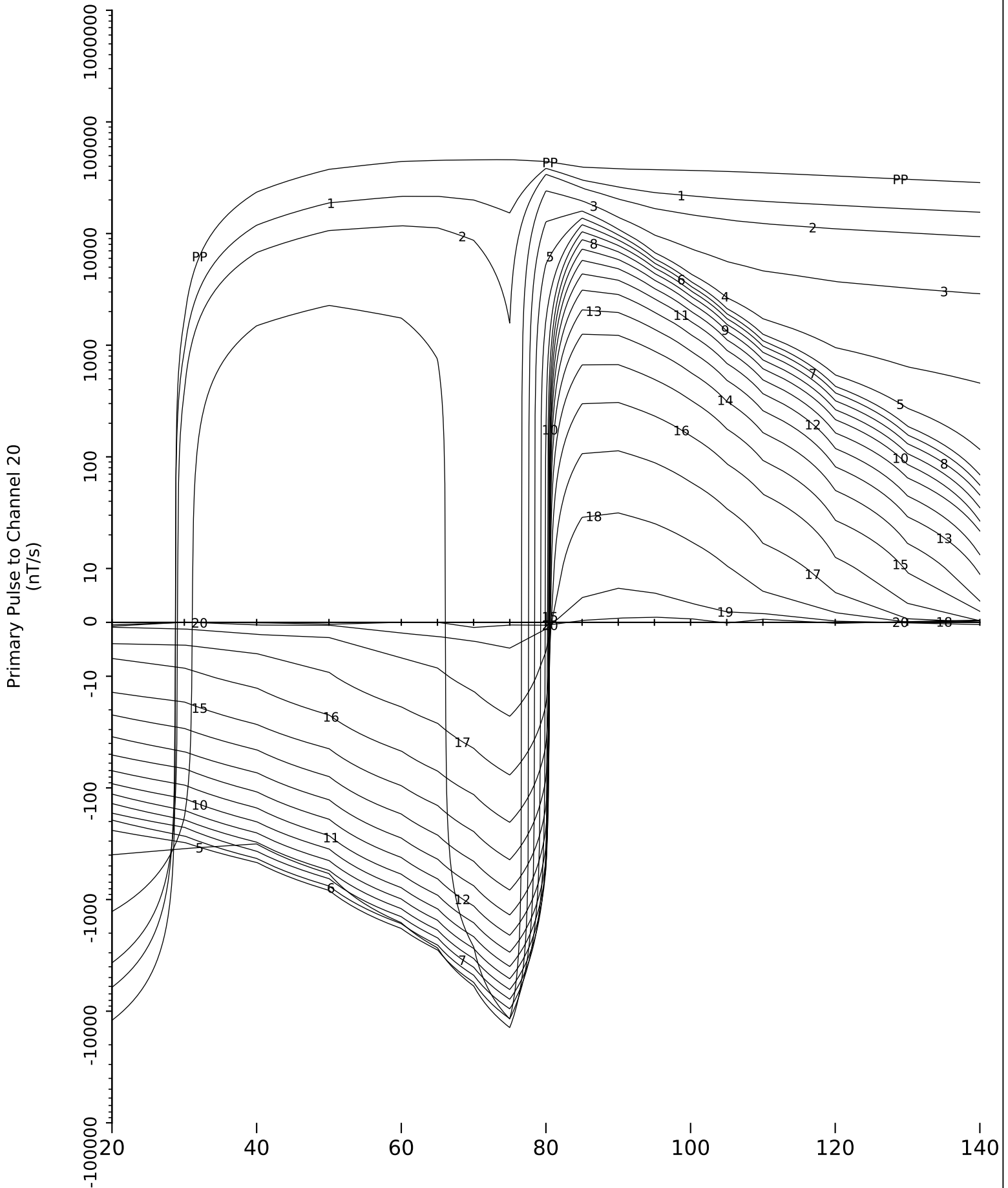


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022



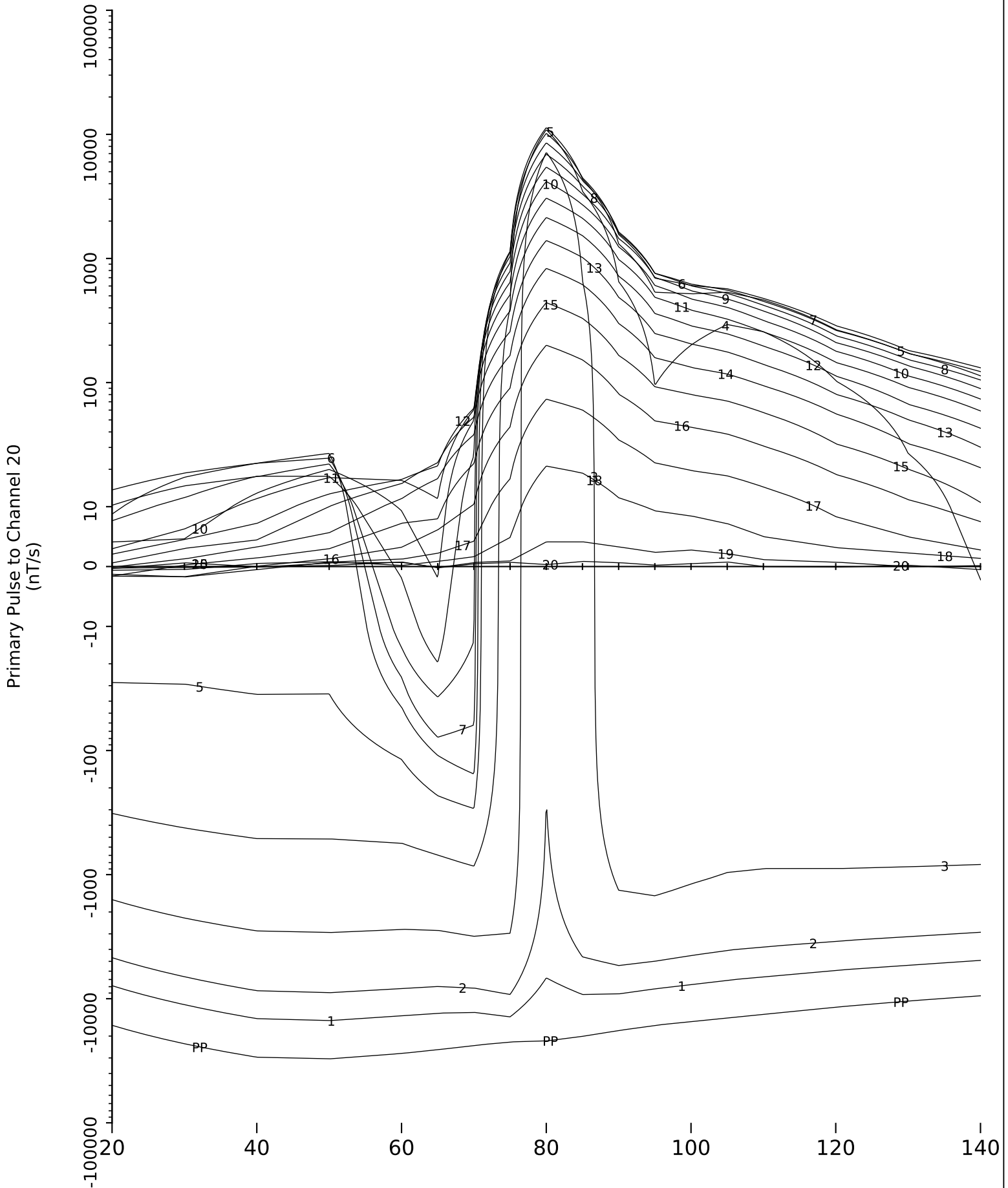


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

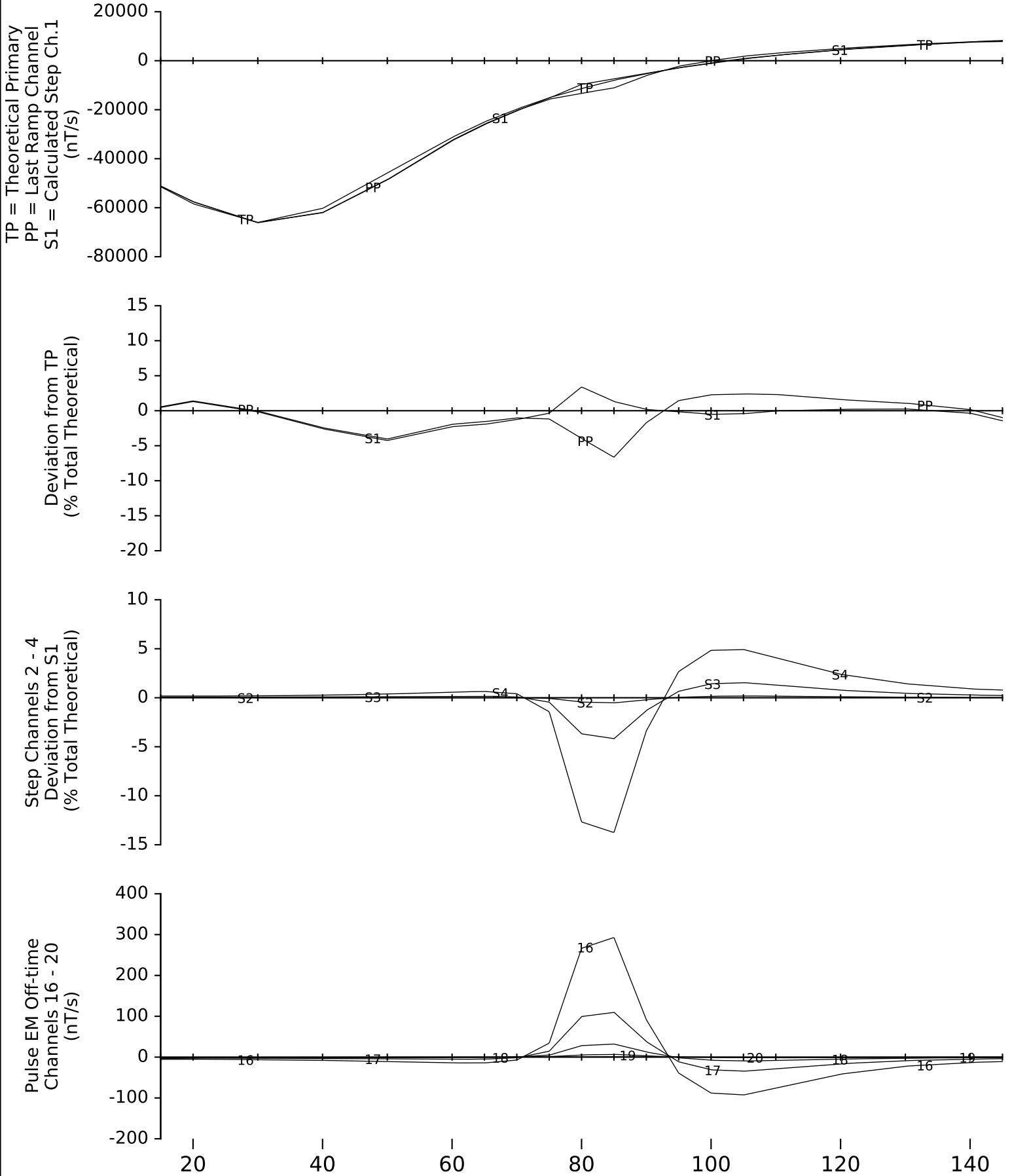


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

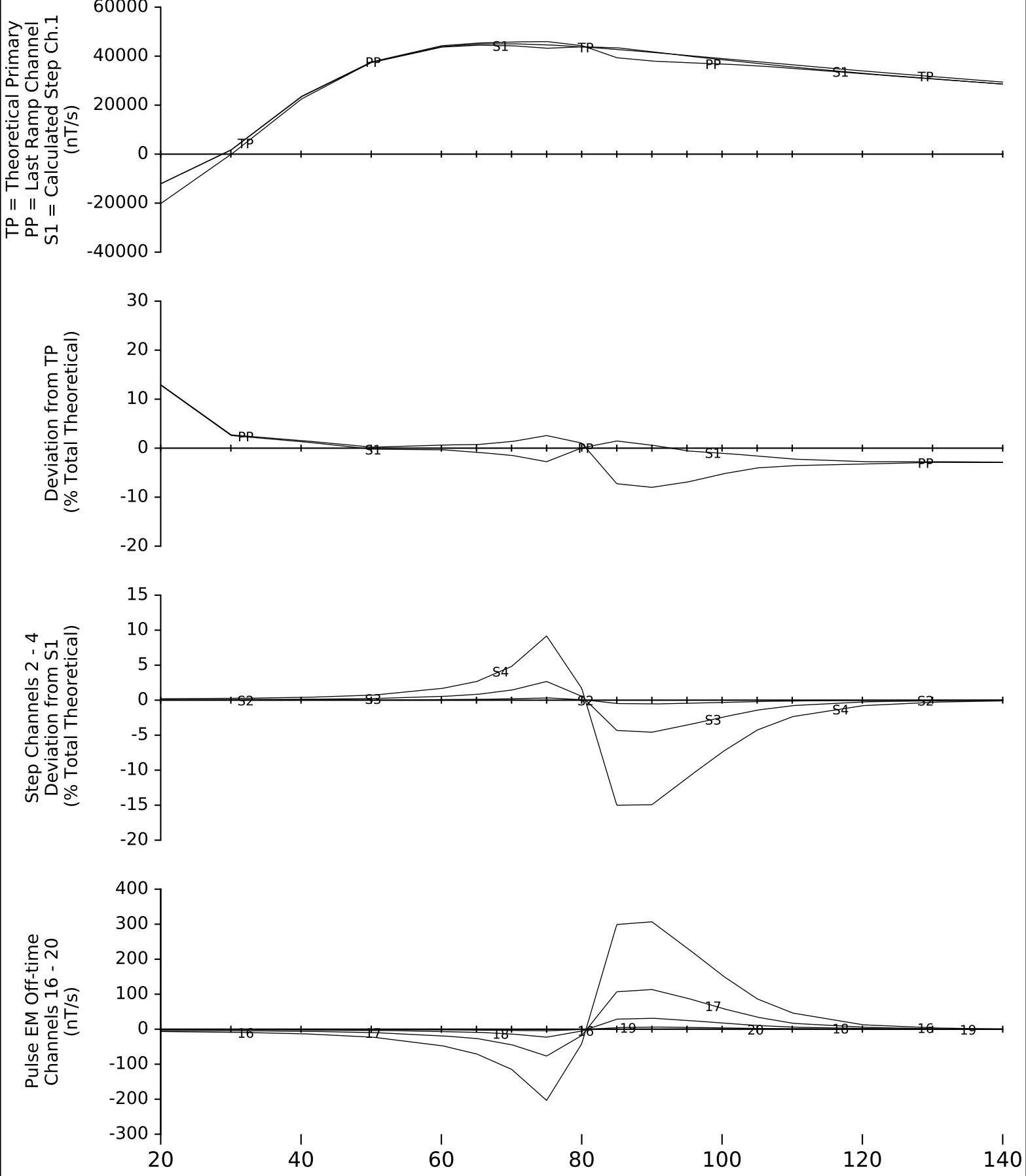


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022

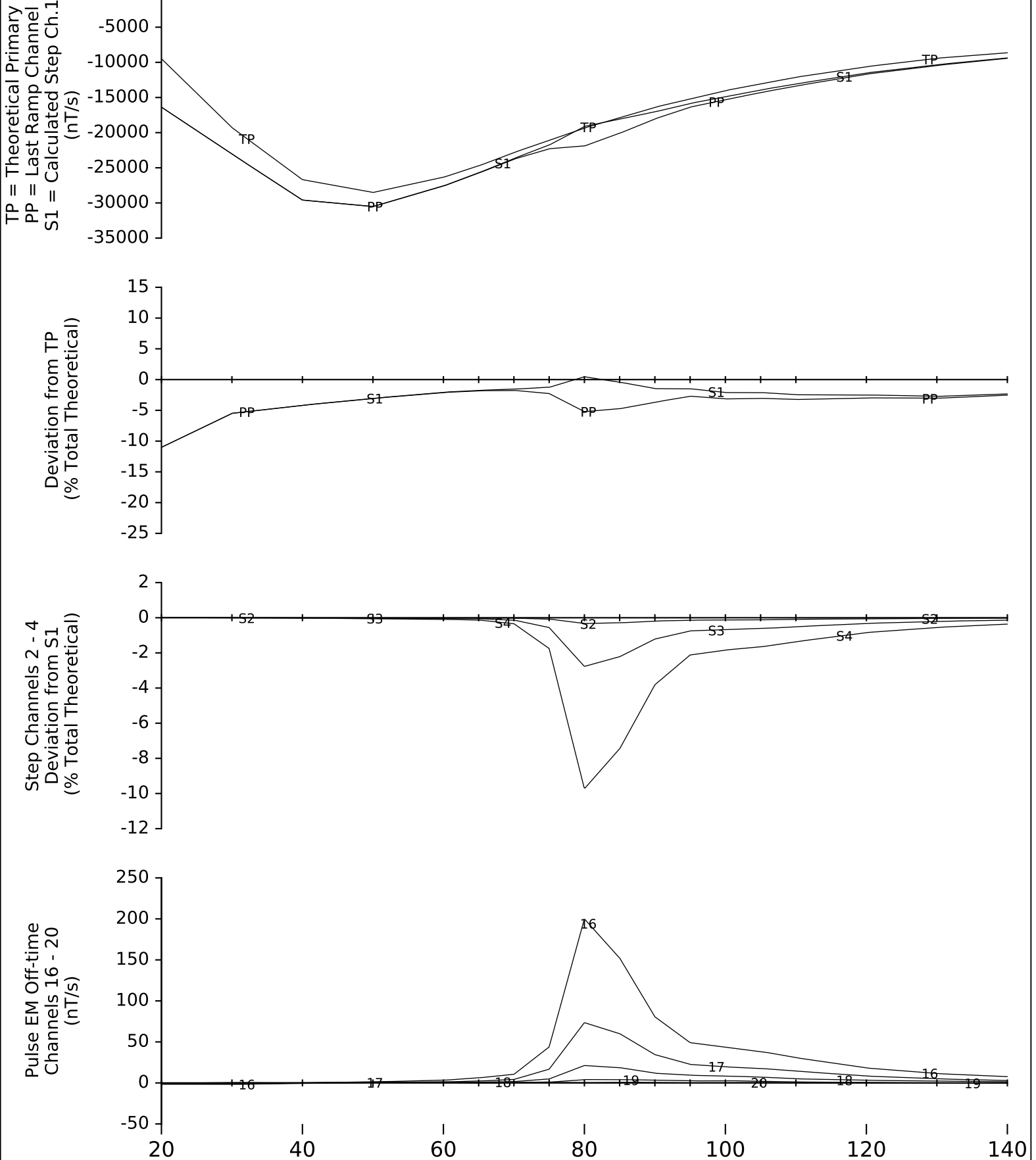


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0012  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 9, 2022



667,200m E      667,300m E      667,400m E      667,500m E      667,600m E      667,700m E      667,800m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
Hole and Loop Location Map  
Borehole Induction Pulse EM Survey

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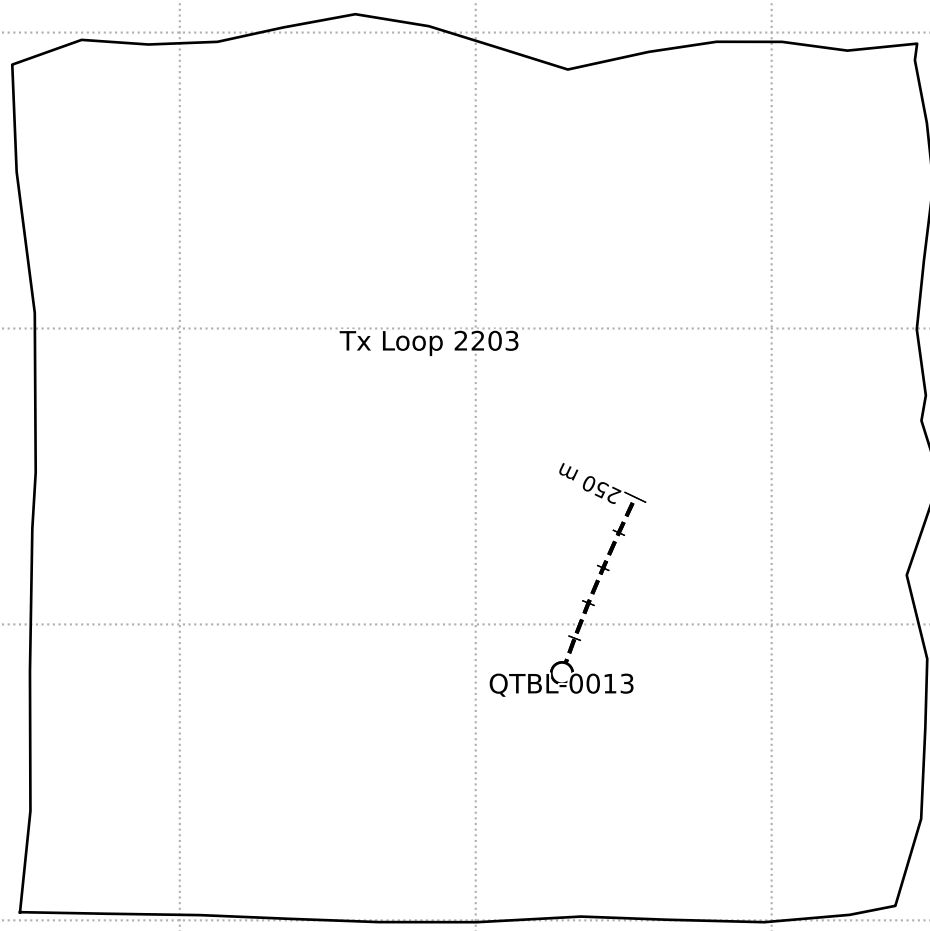
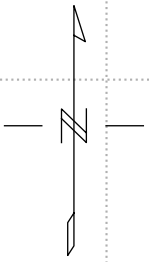
Rio Tinto Exploration  
Baril Lake  
Hole: QTBL-0013    Loop: 2203

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Timebase: 16.66 ms  
Survey Date: July 11, 2022

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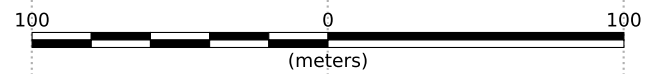
*NAD83 / UTM zone 15N*      *Scale 1:2,500*



Tx Loop 2203

250 m

QTBL-0013

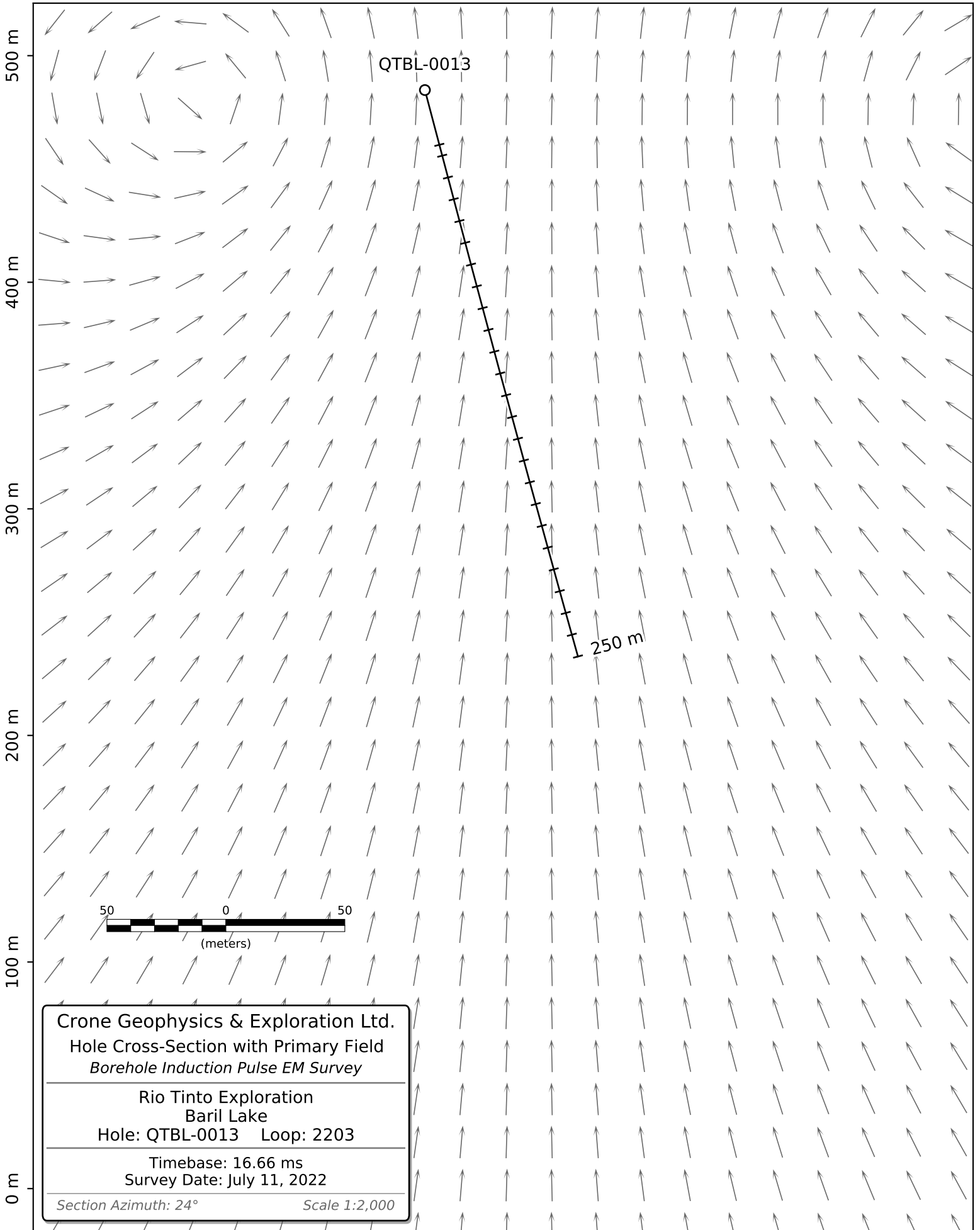


**Legend**

- Transmitter Loop
- +- Borehole Trace

667,460m E  
5,401,334m N

667,623m E  
5,401,694m N



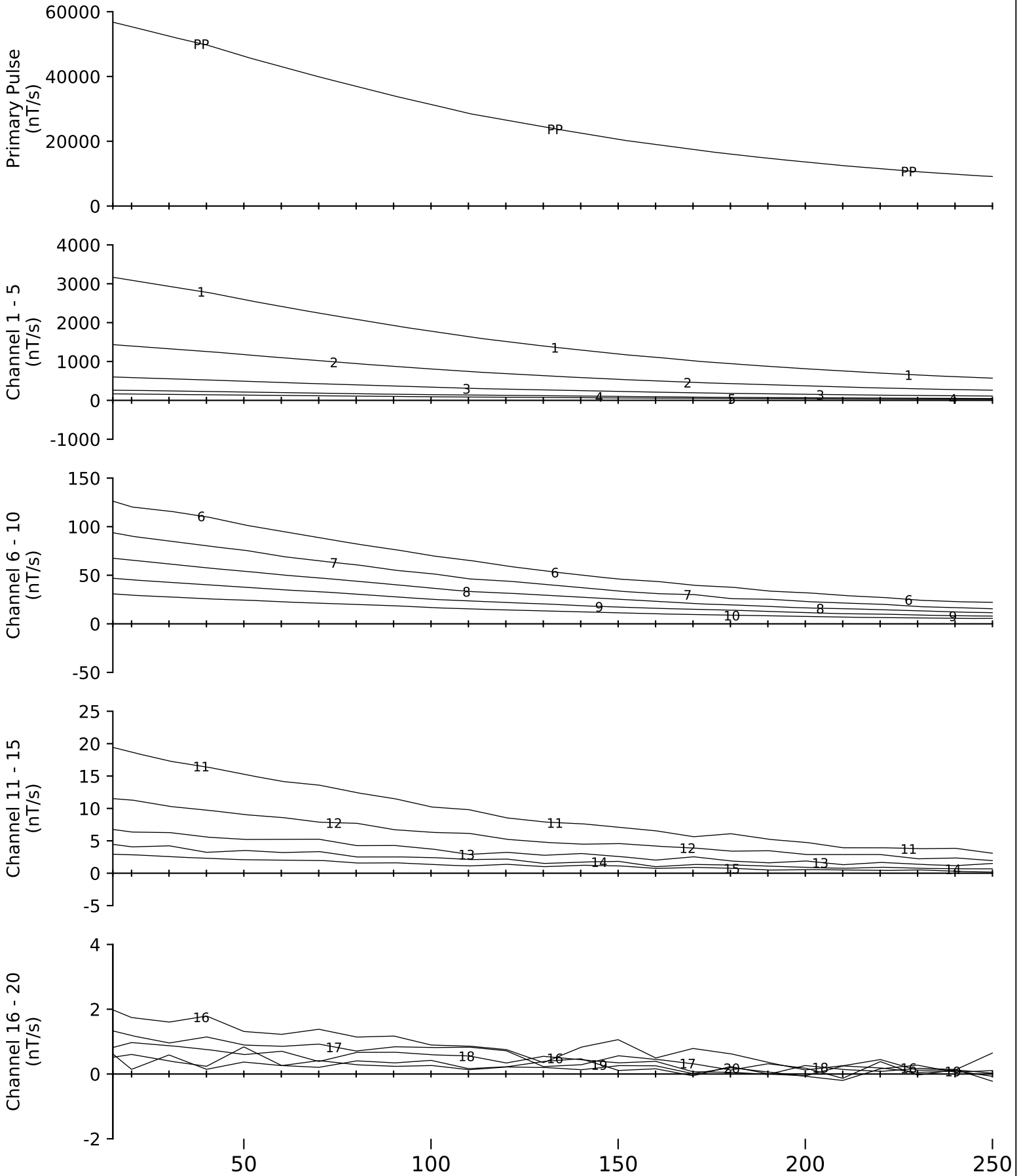


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

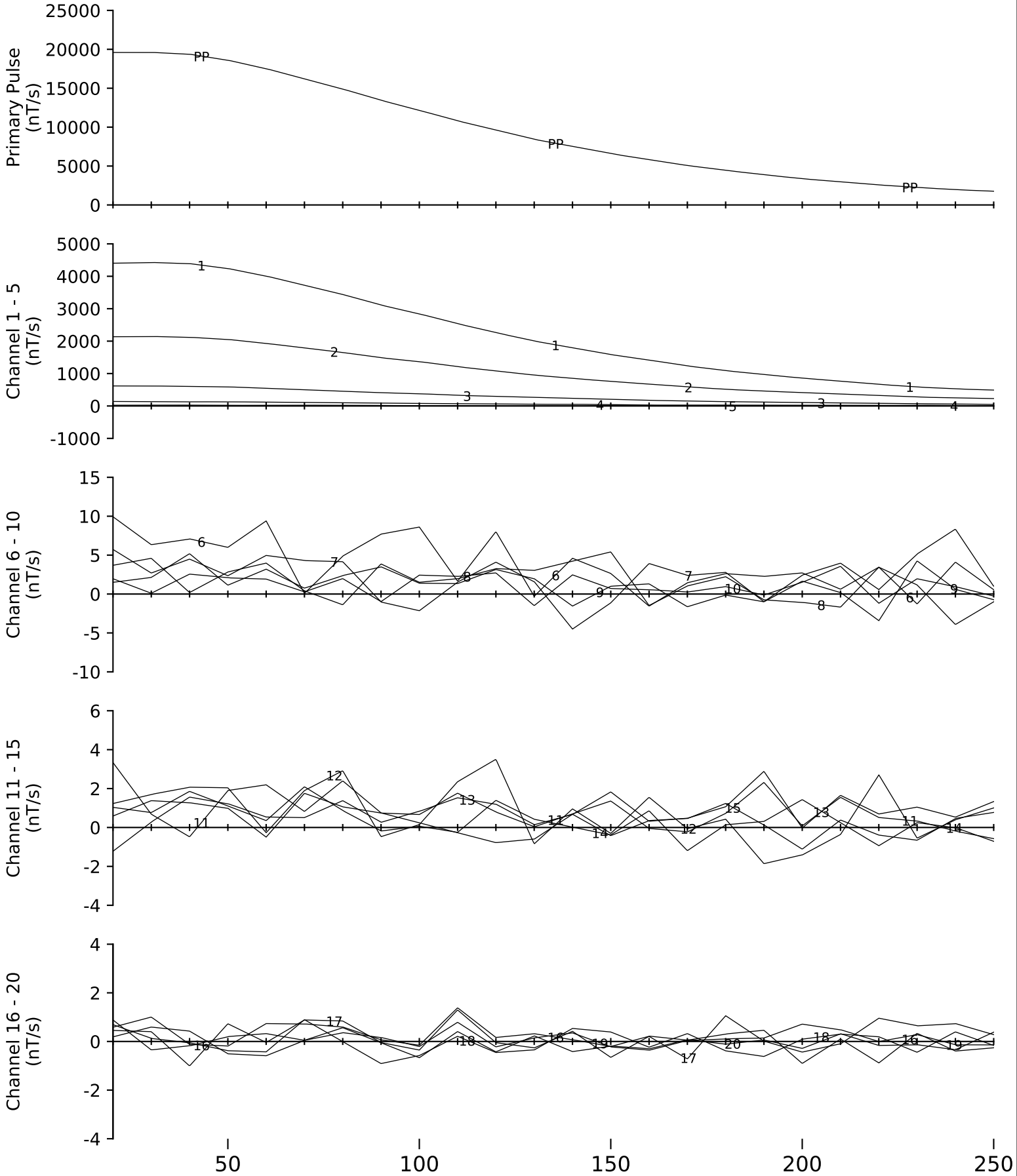


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

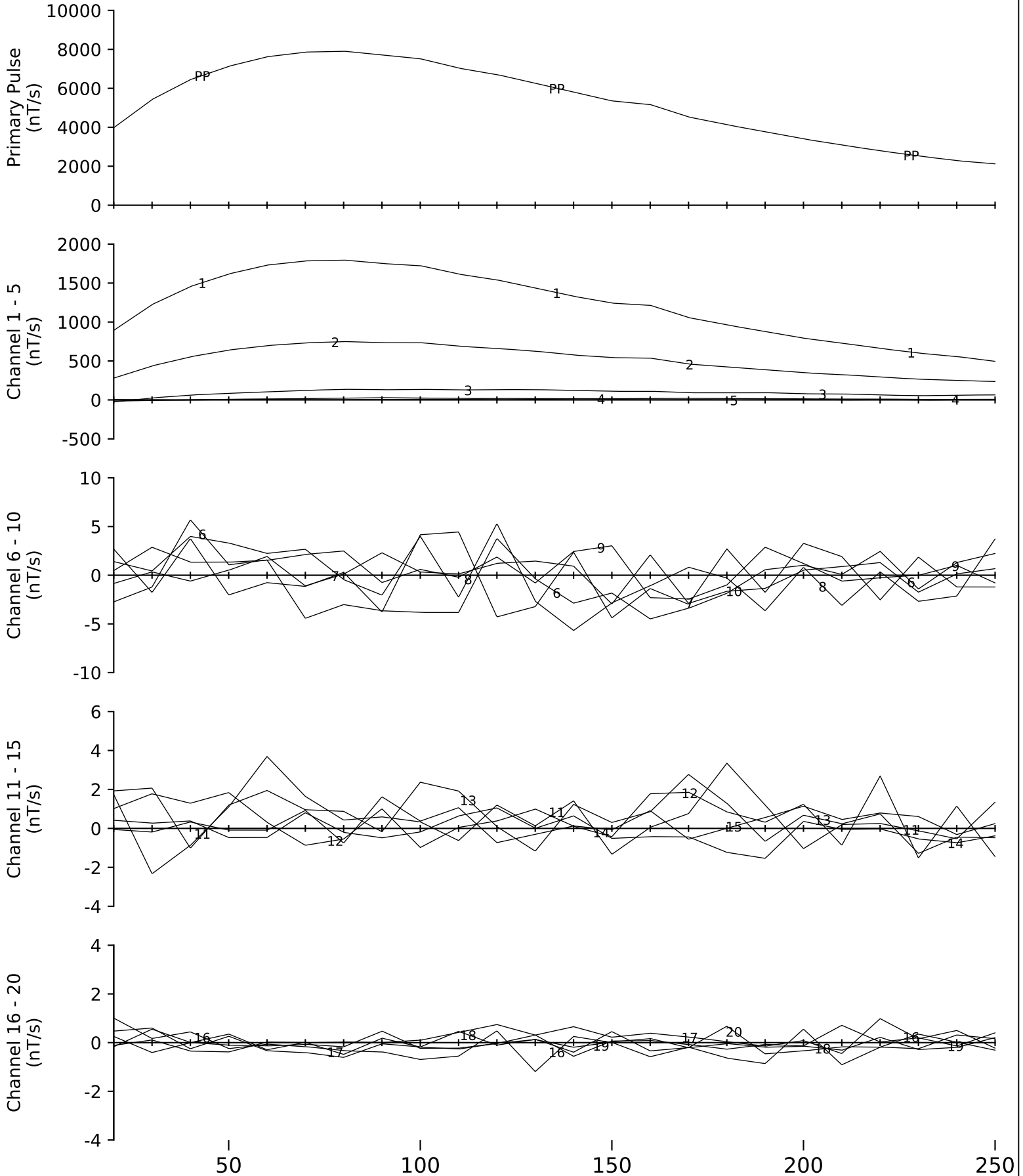


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

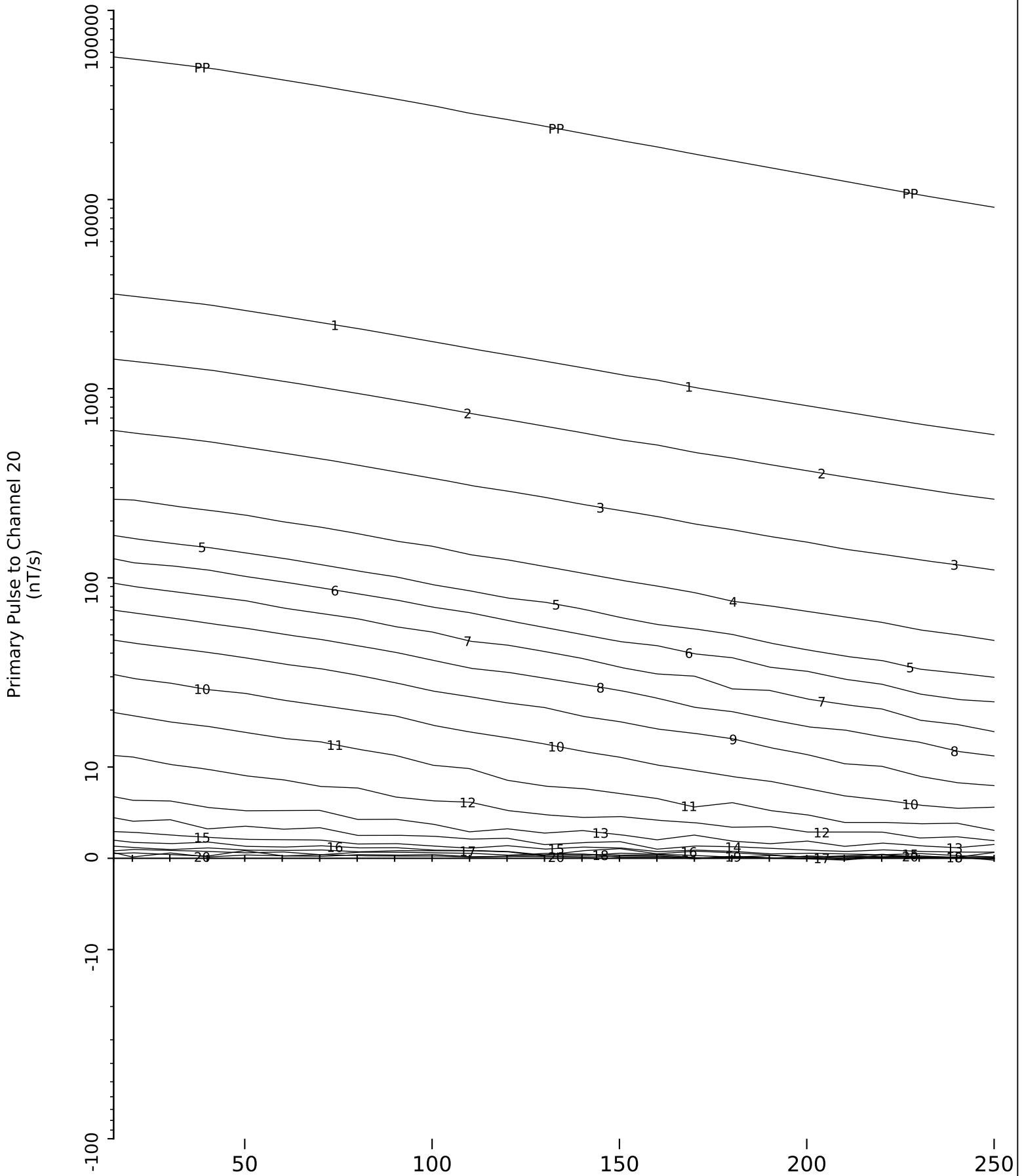


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

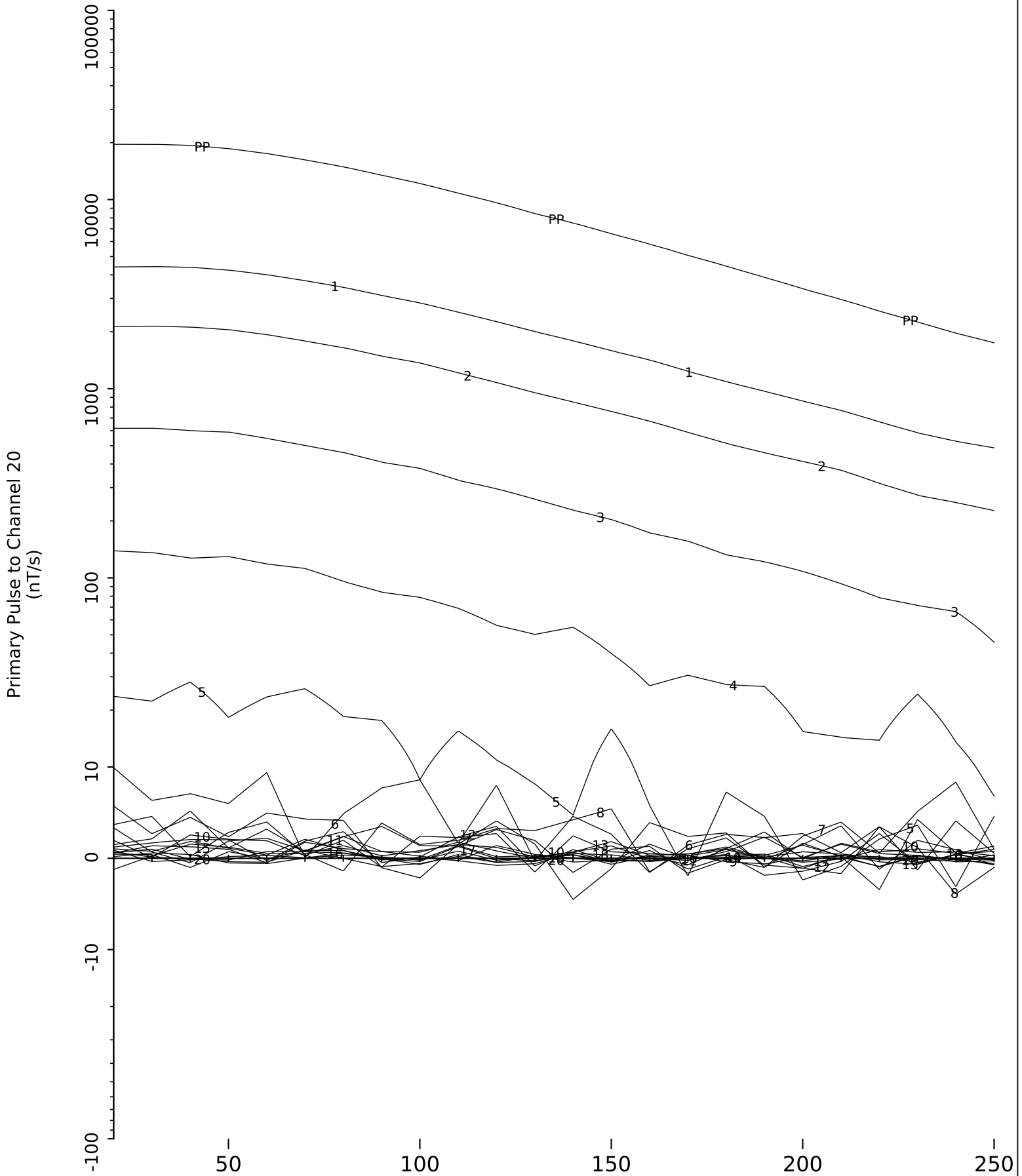


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

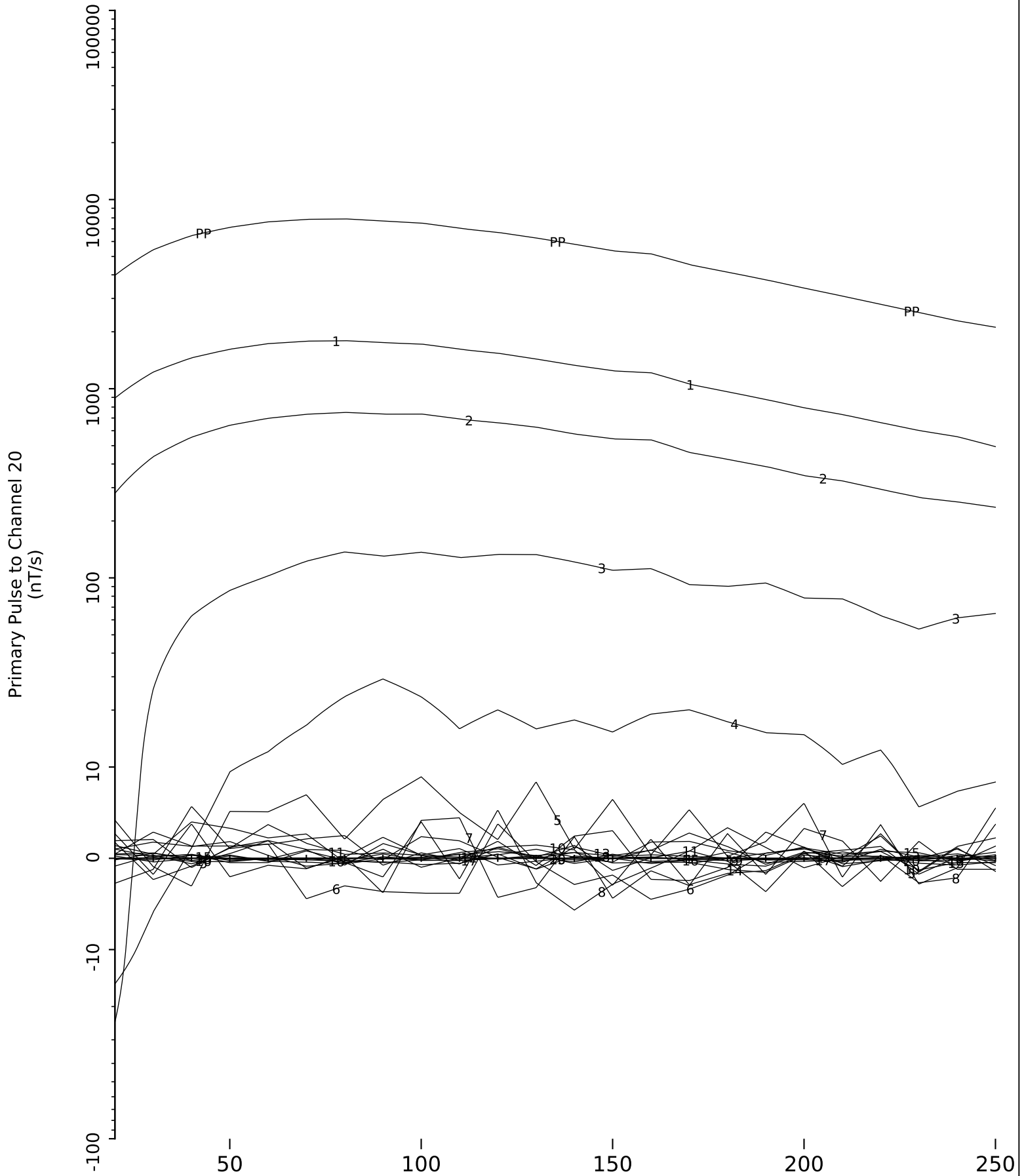


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022





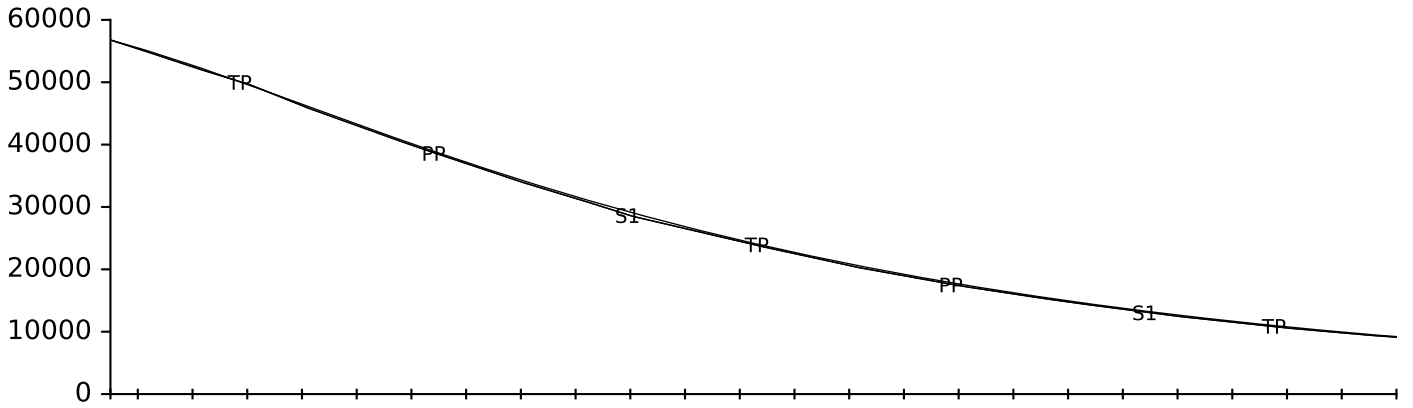
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

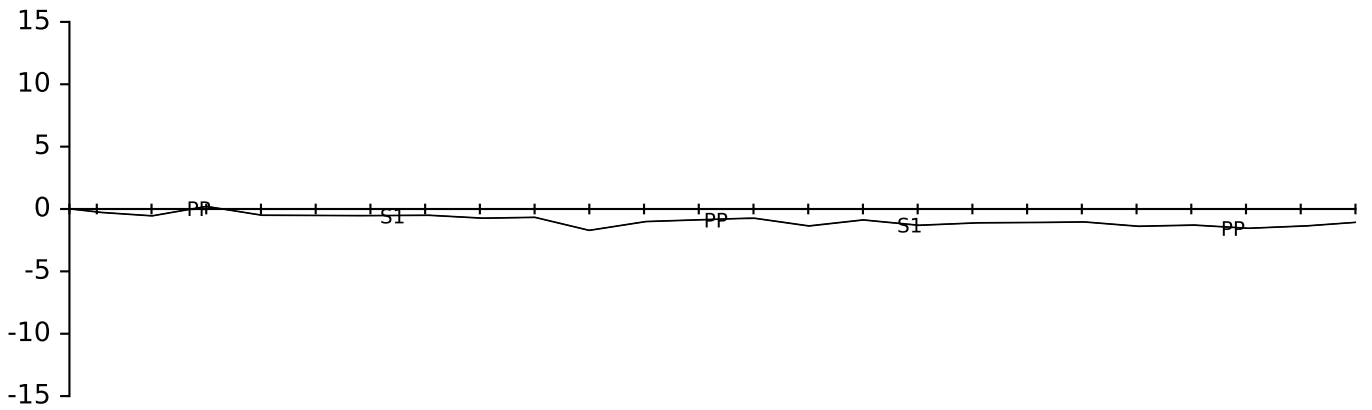
Hole: QTBL-0013  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

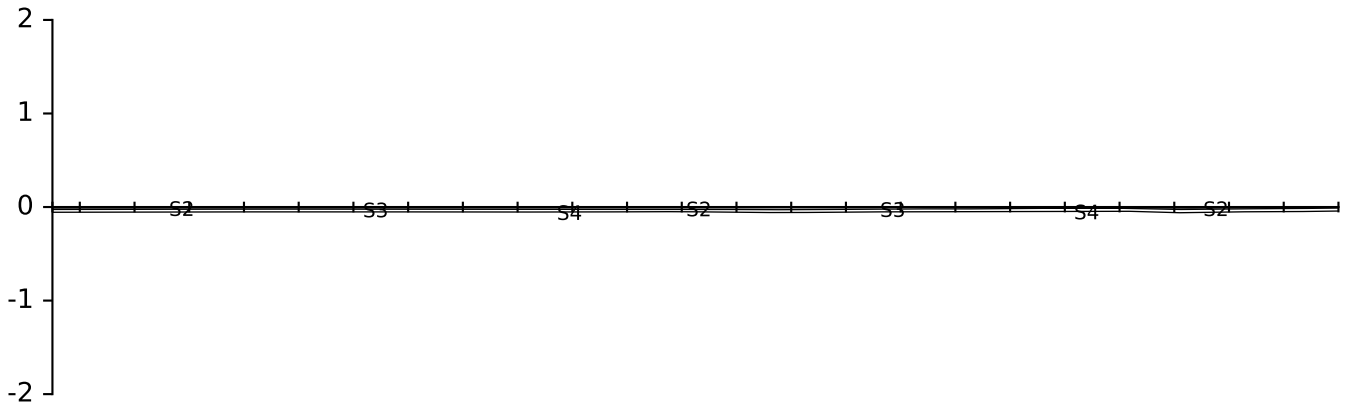
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



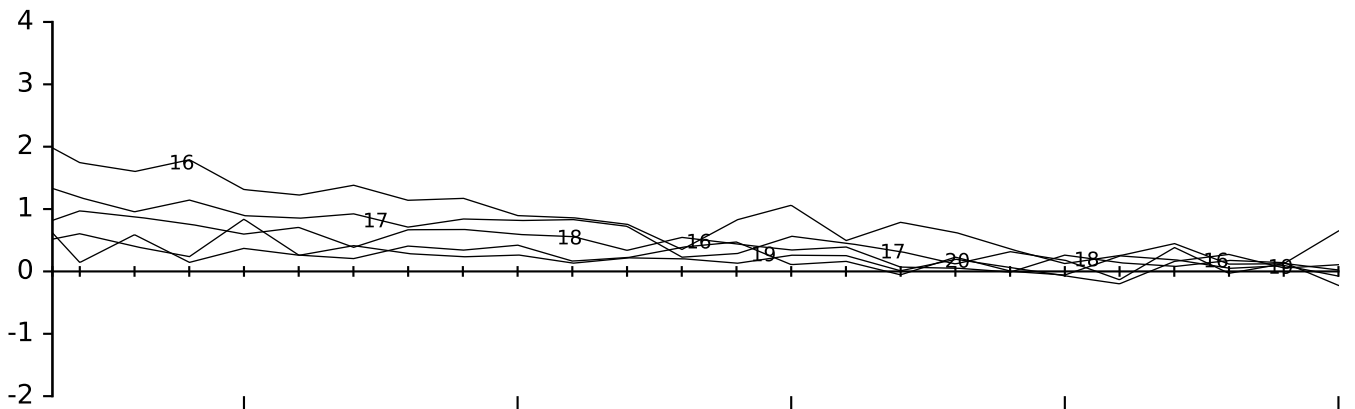
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)

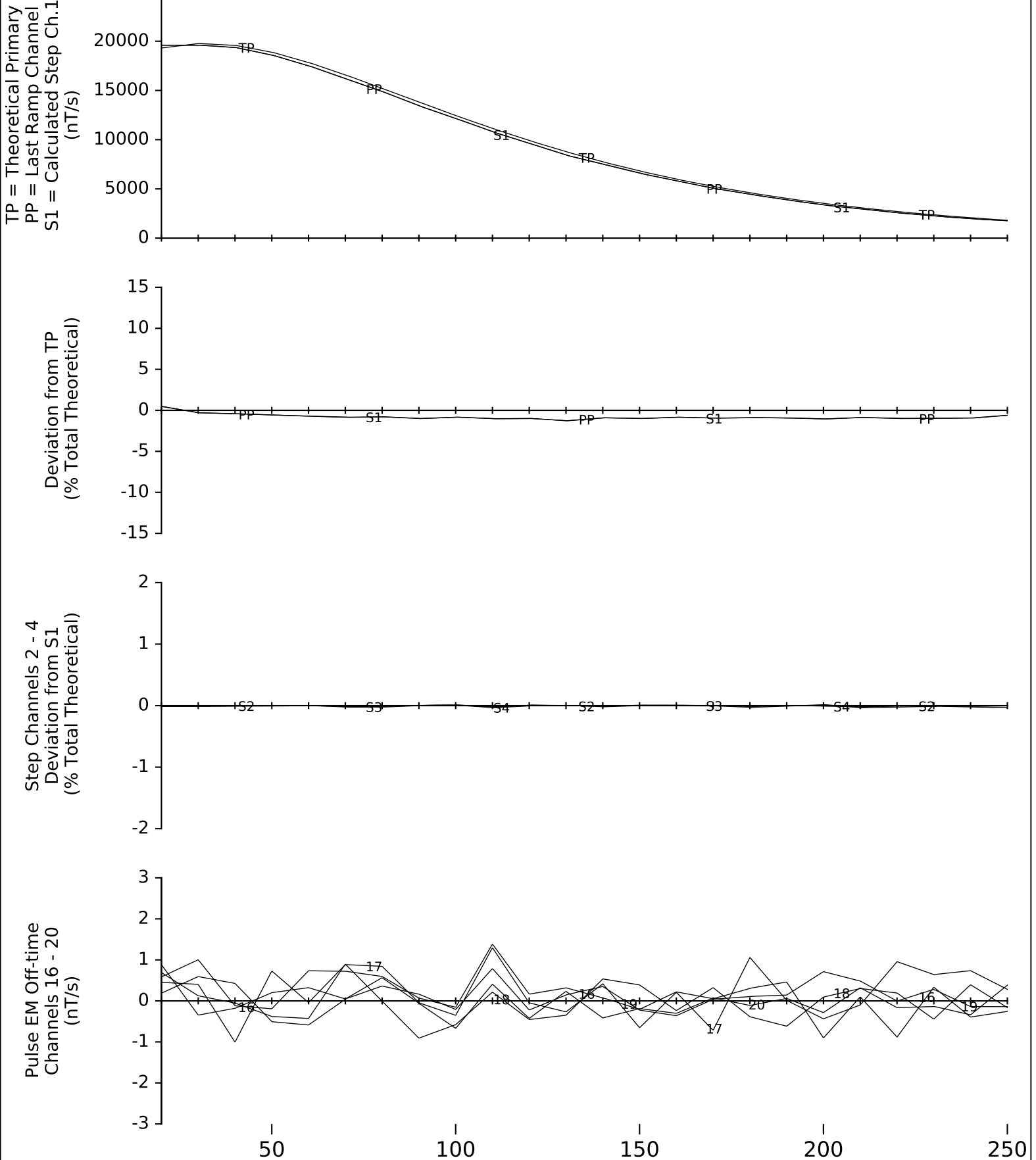


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022

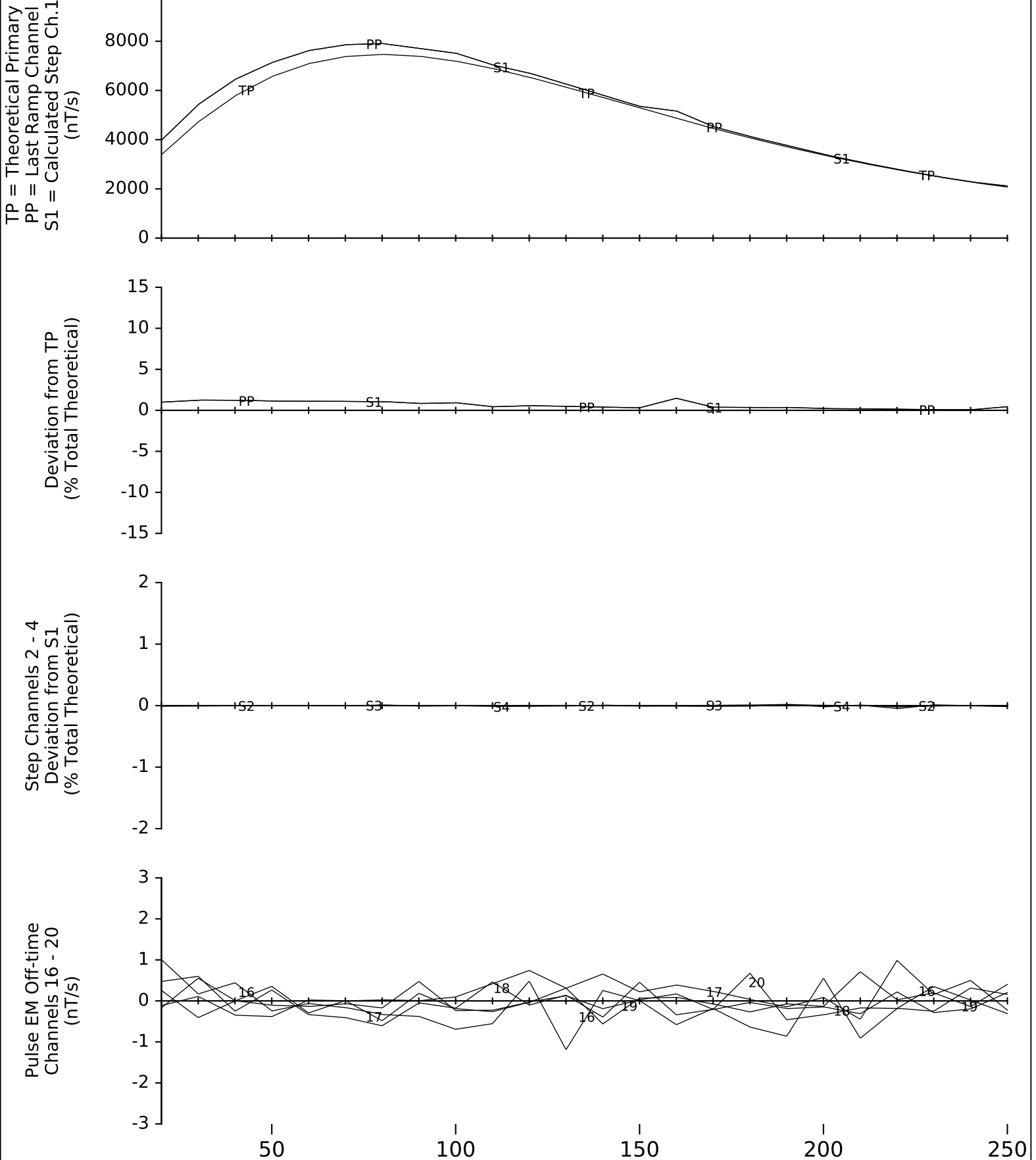


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.7 A

Hole: QTBL-0013  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 11, 2022



667,200m E      667,300m E      667,400m E      667,500m E      667,600m E      667,700m E      667,800m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
Hole and Loop Location Map  
Borehole Induction Pulse EM Survey

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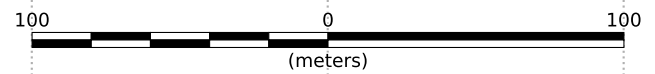
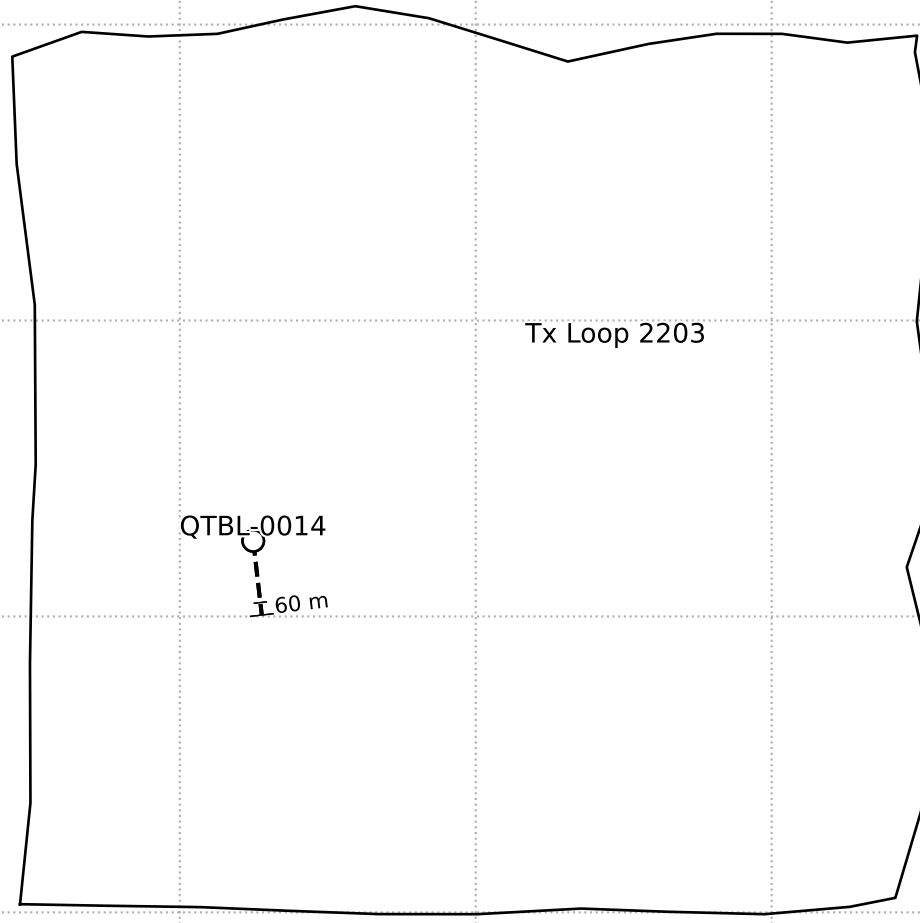
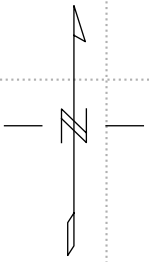
Rio Tinto Exploration  
Baril Lake  
Hole: QTBL-0014    Loop: 2203

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Timebase: 16.66 ms  
Survey Date: August 02 - August 05, 2022

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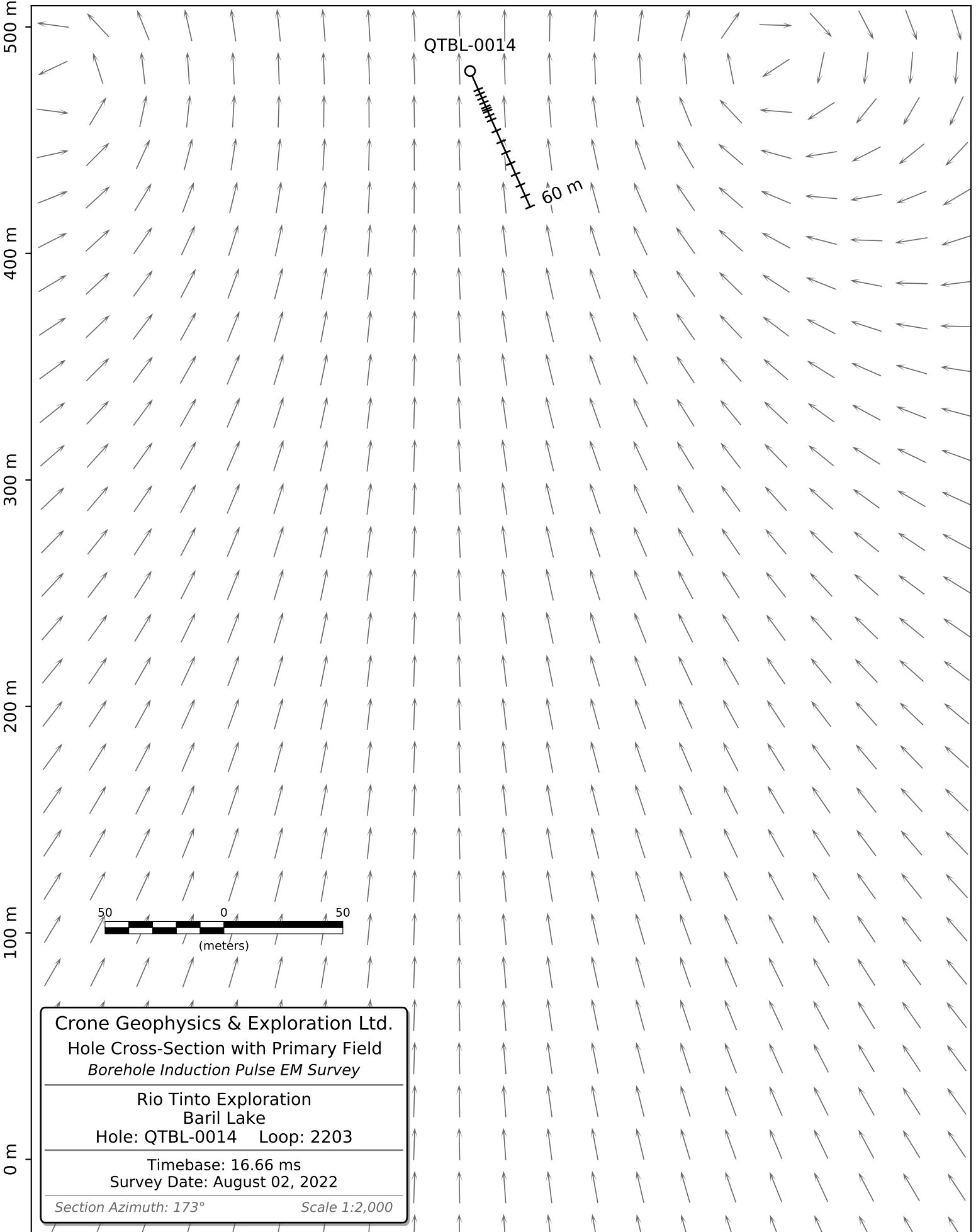
*NAD83 / UTM zone 15N*      *Scale 1:2,500*



**Legend**  
— Transmitter Loop  
-+- Borehole Trace

667,403m E  
5,401,709m N

667,449m E  
5,401,316m N

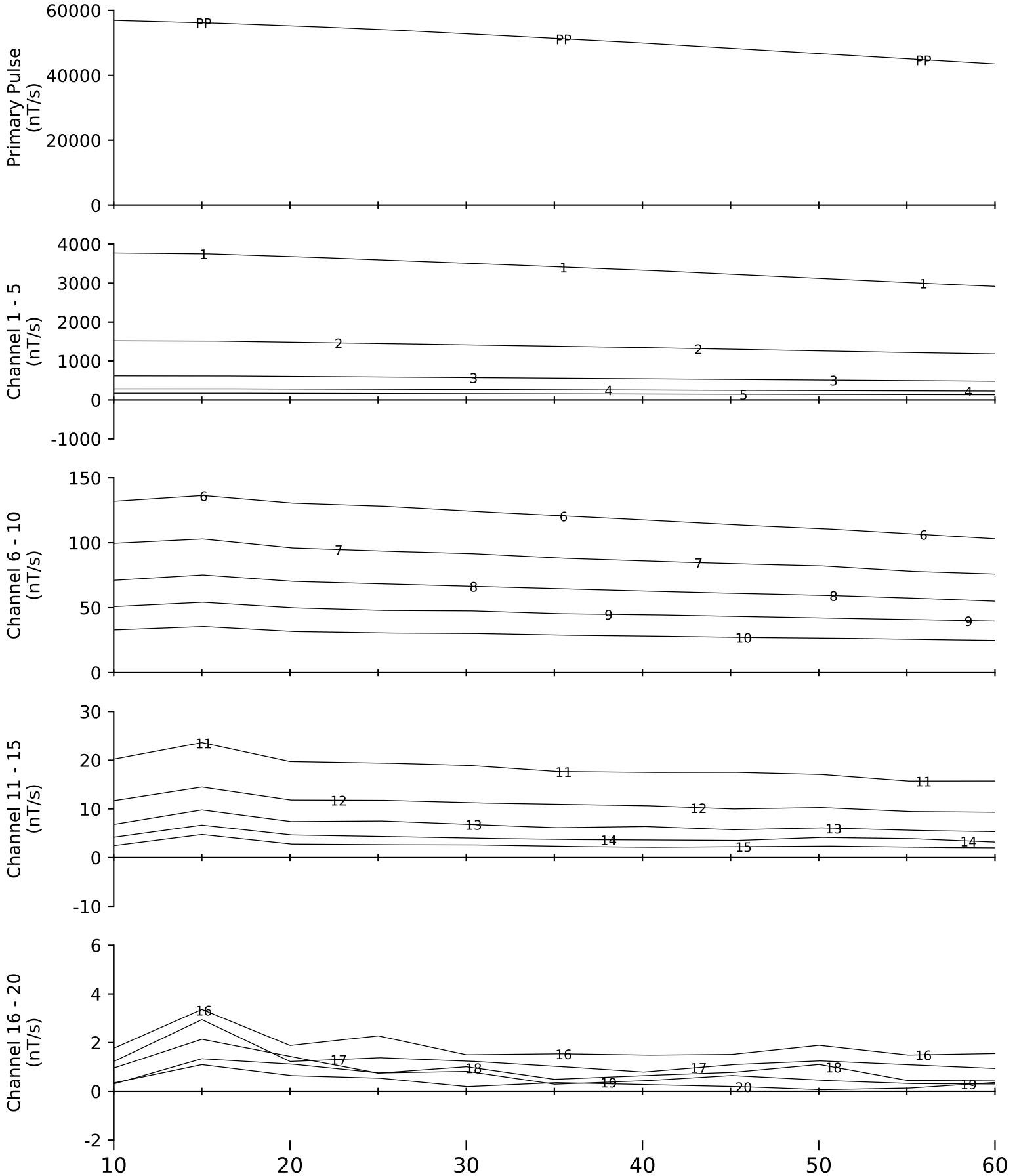


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 2, 2022



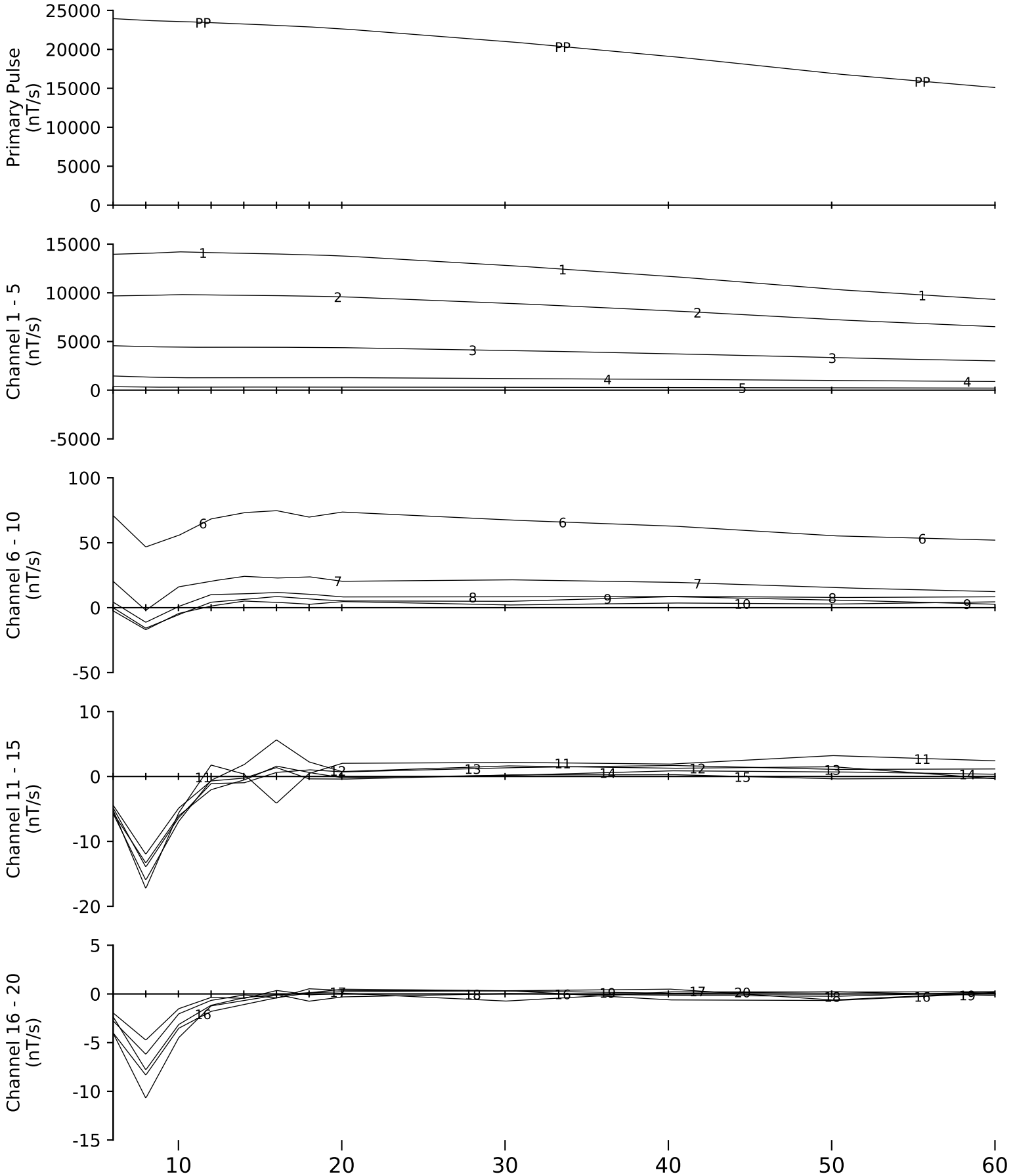


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022

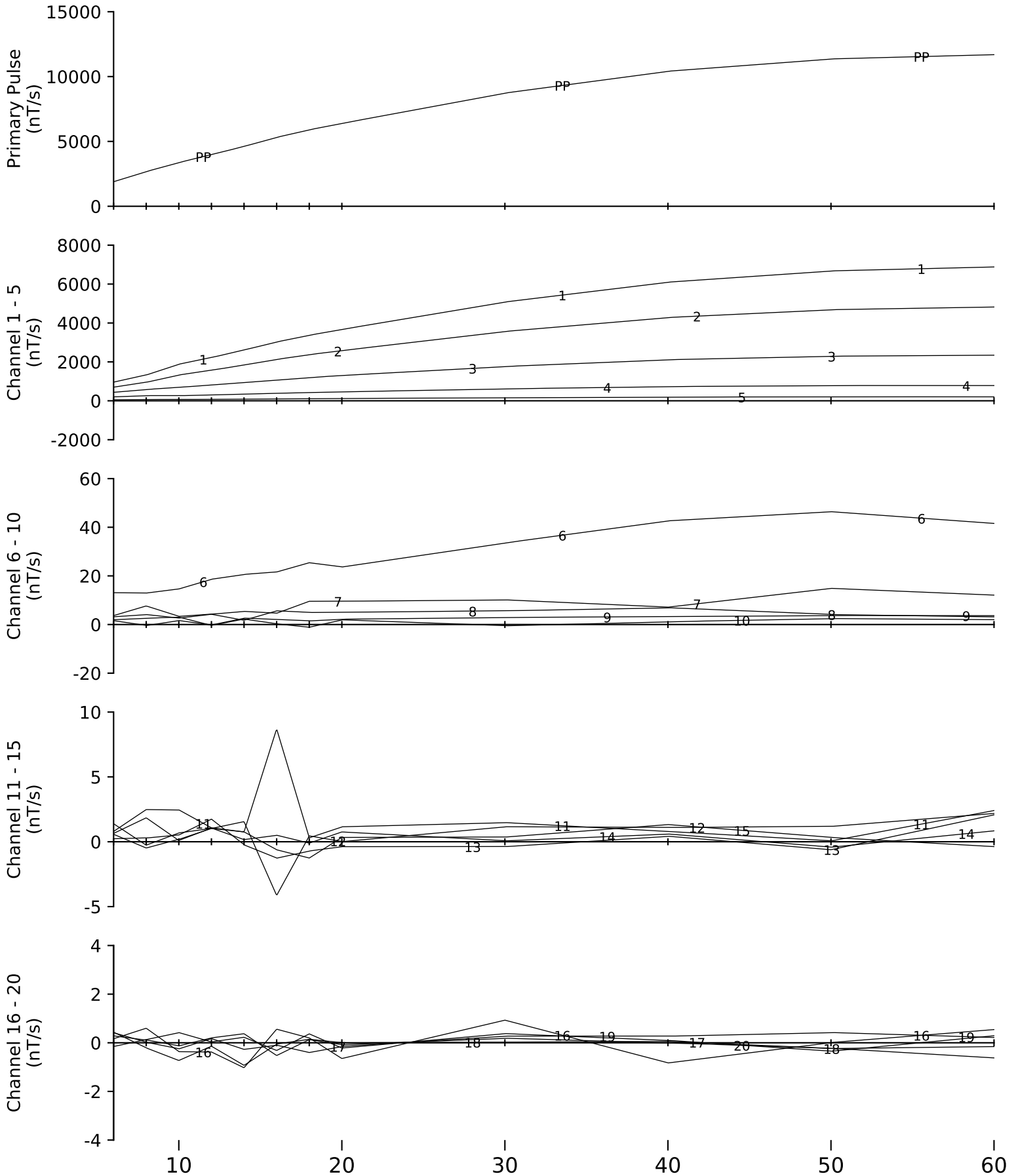


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022

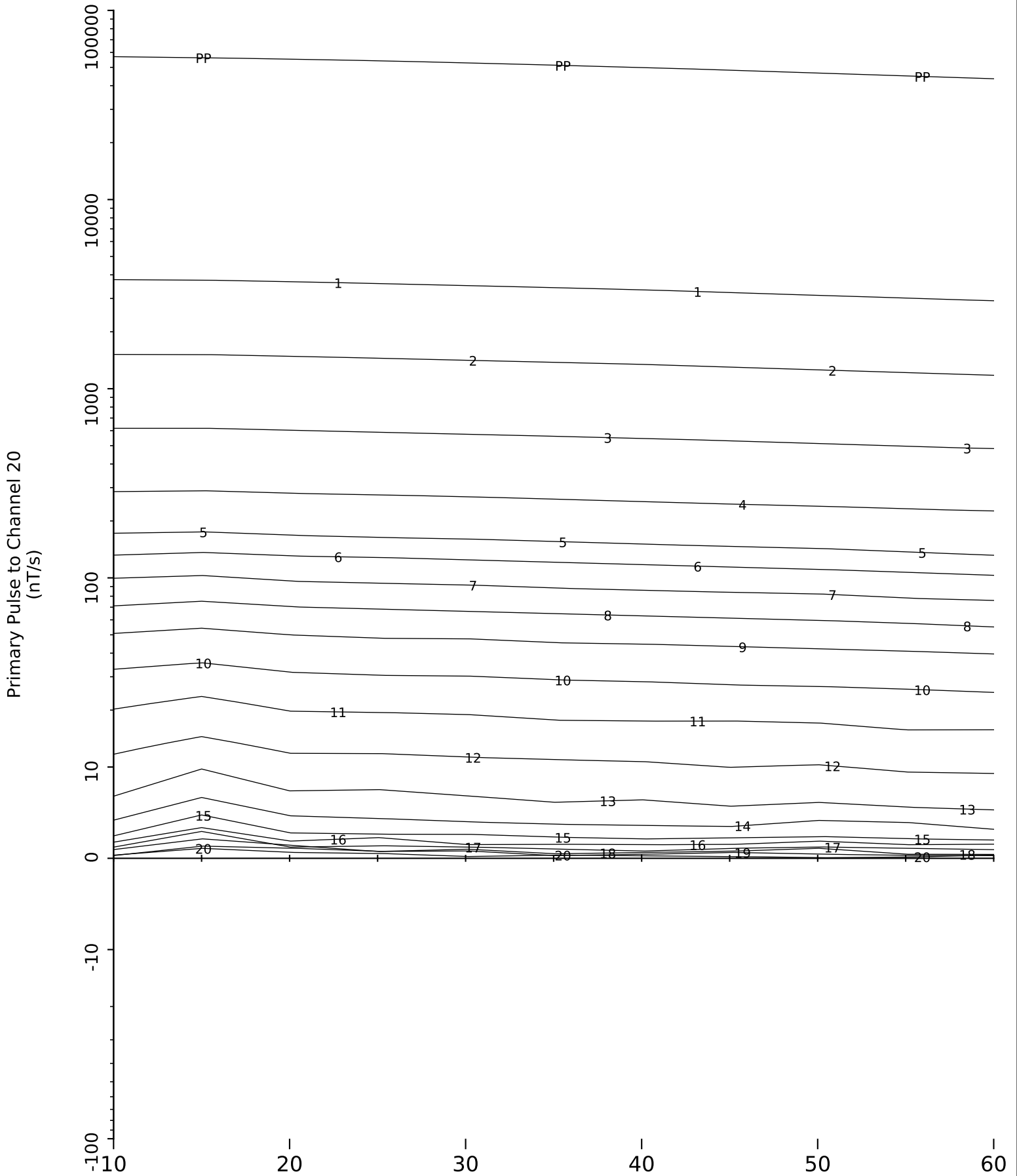


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 2, 2022

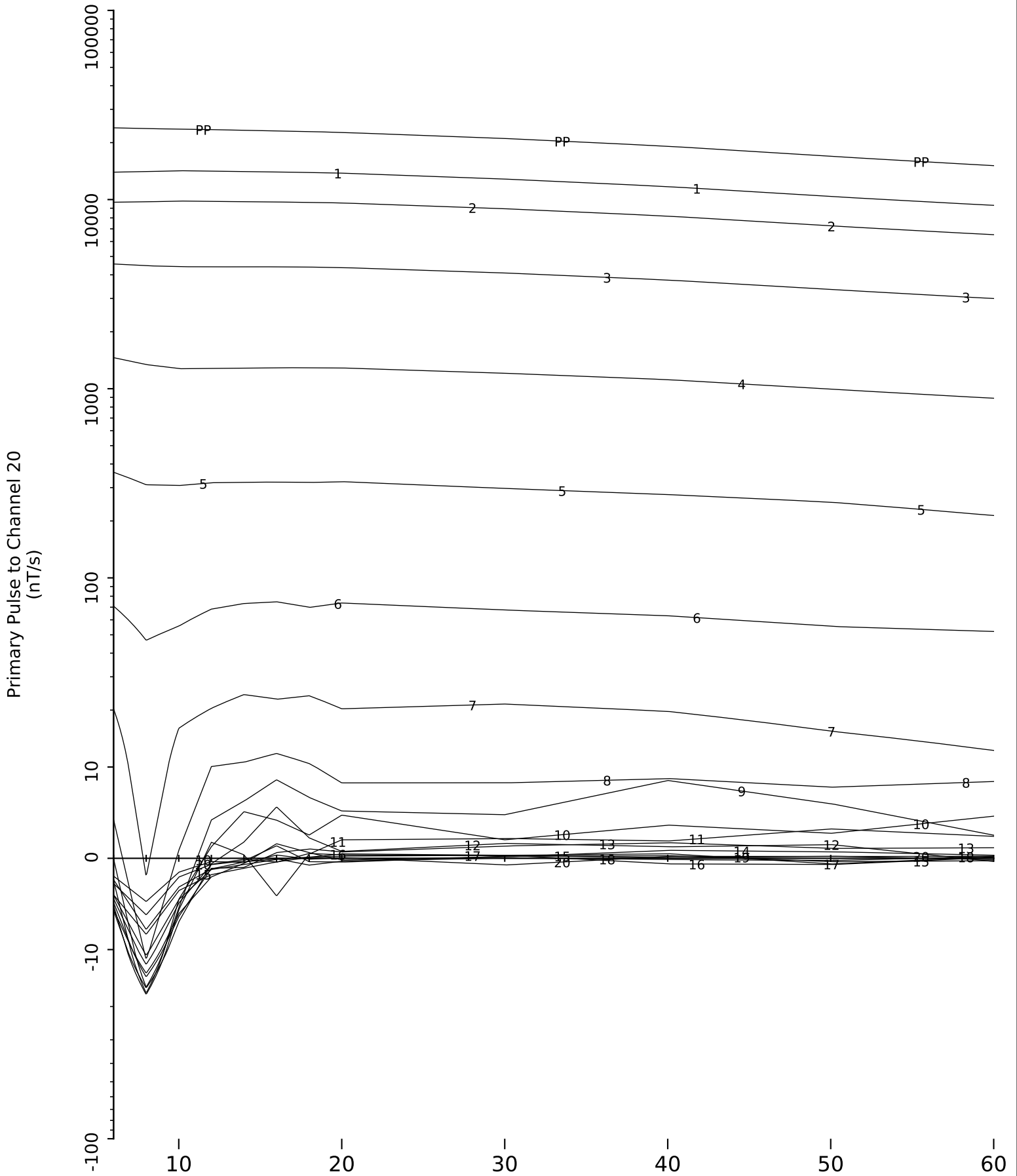


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022

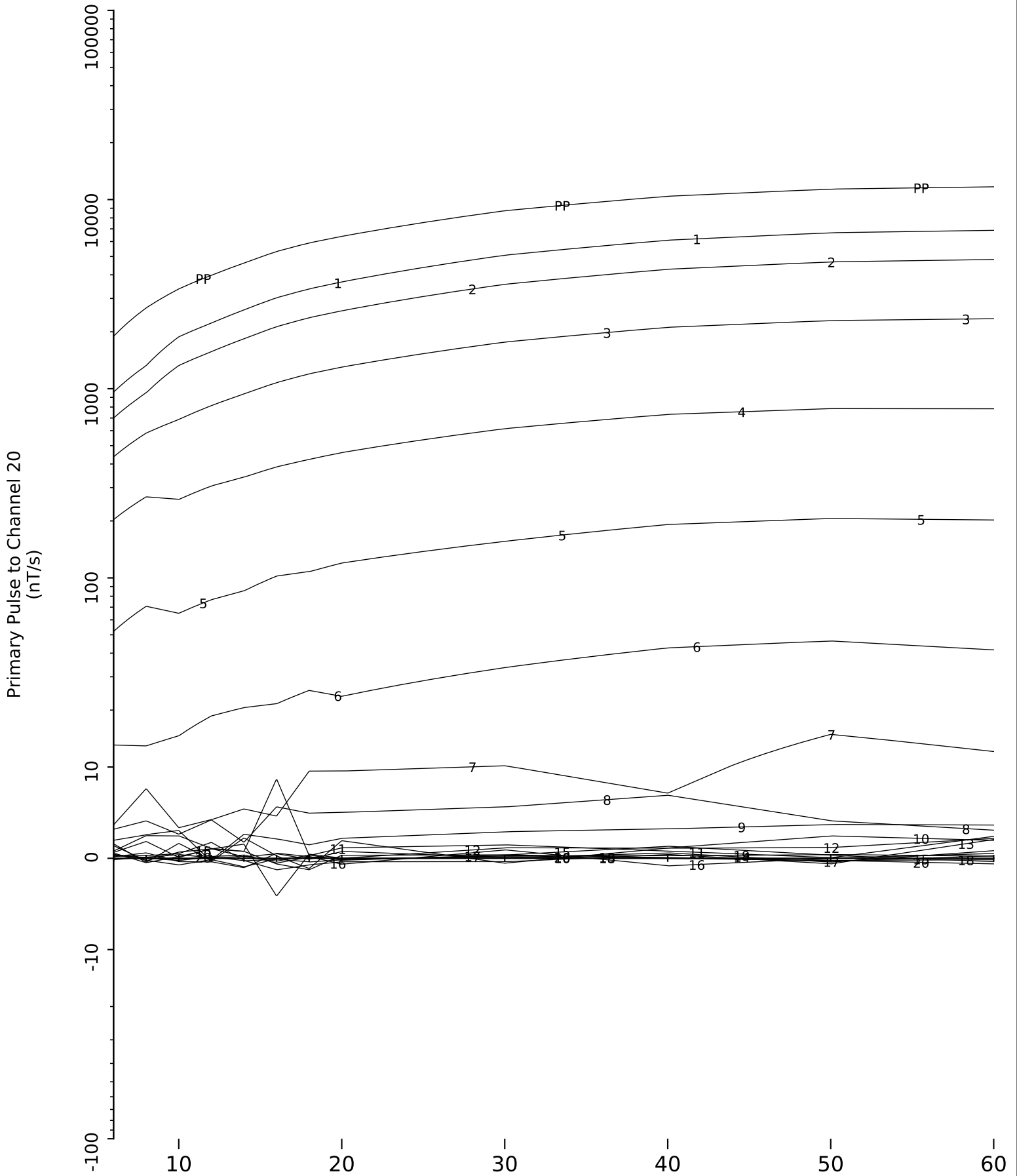


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022



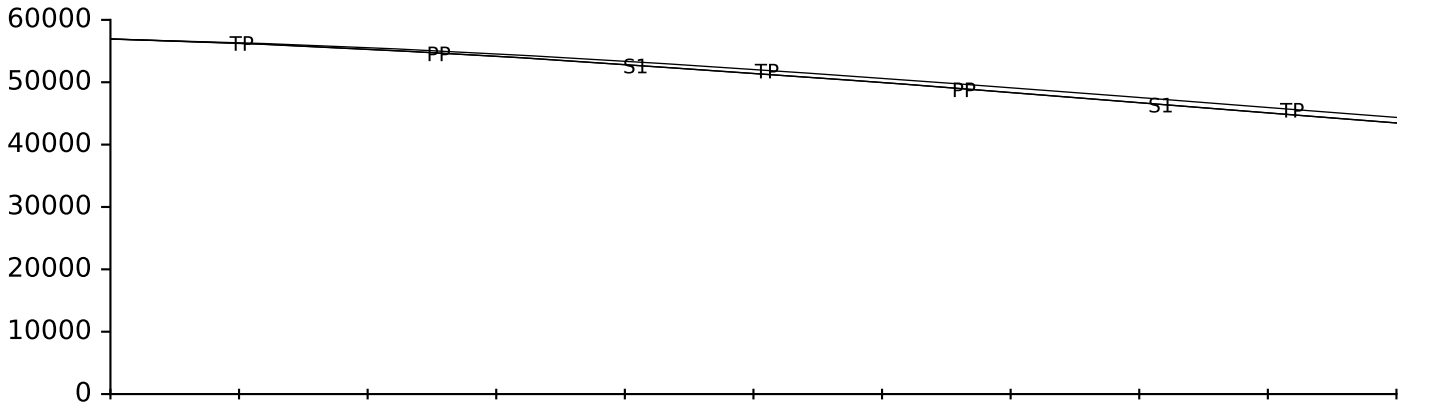
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

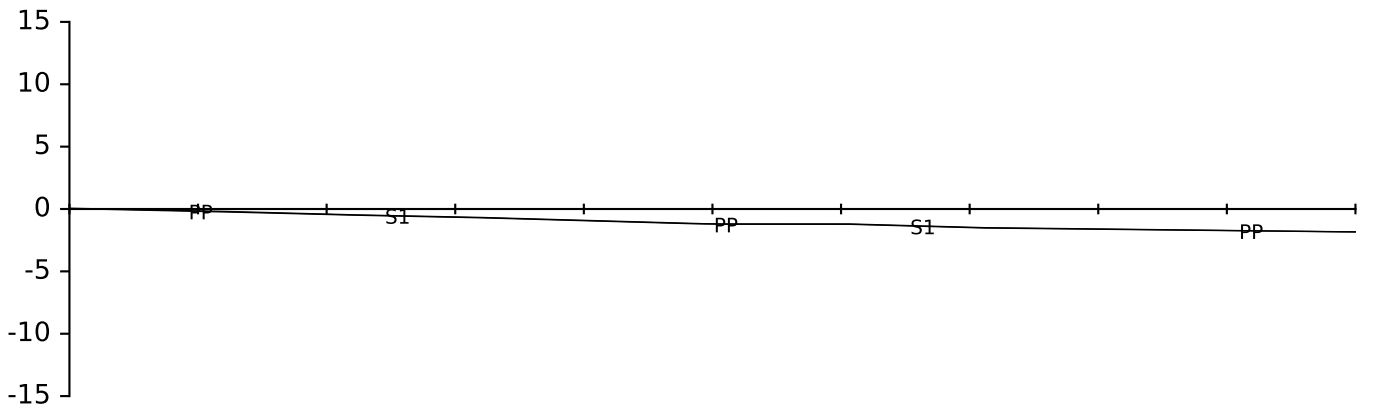
Hole: QTBL-0014  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 2, 2022

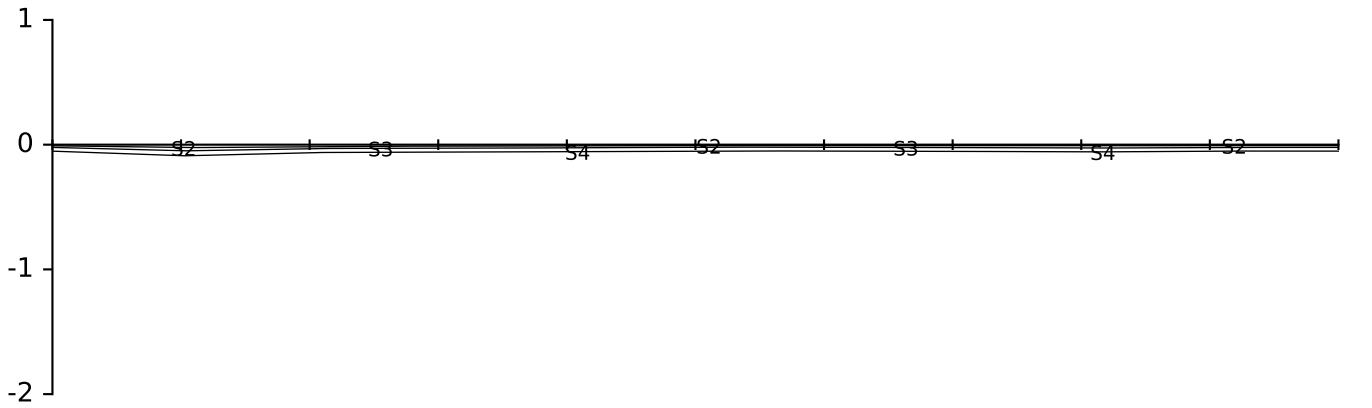
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



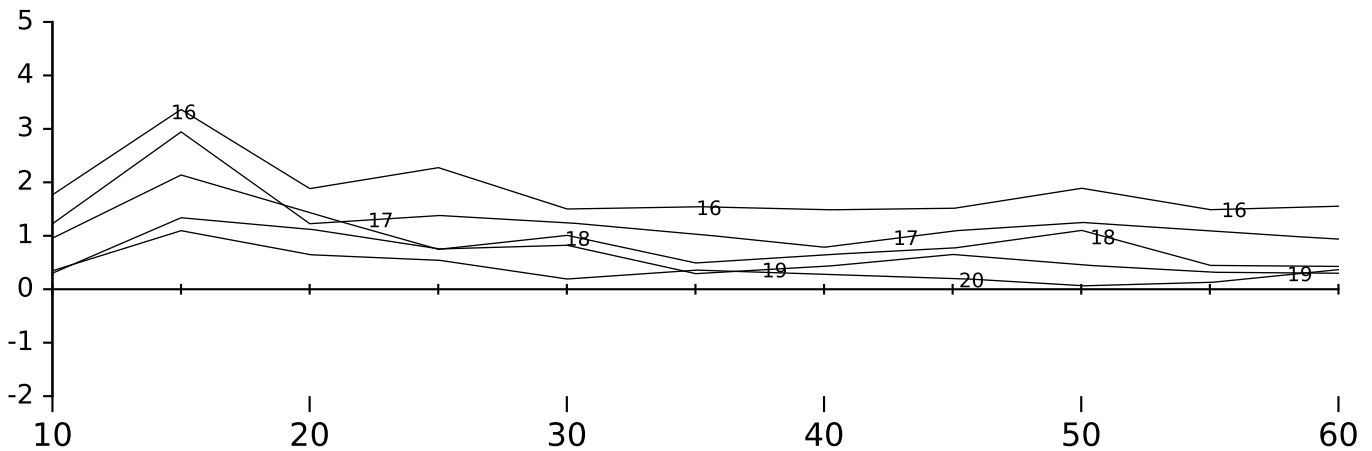
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)





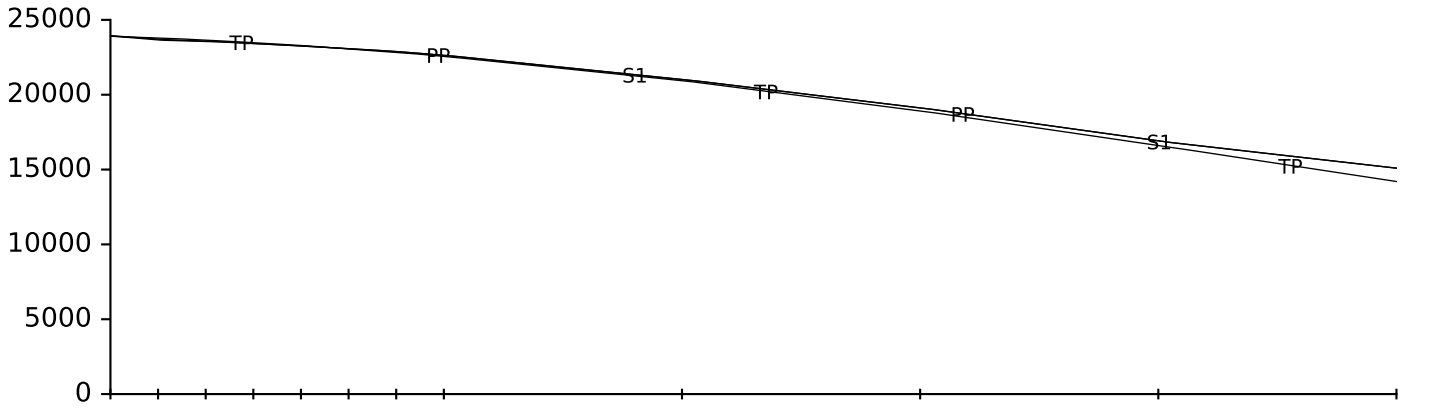
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

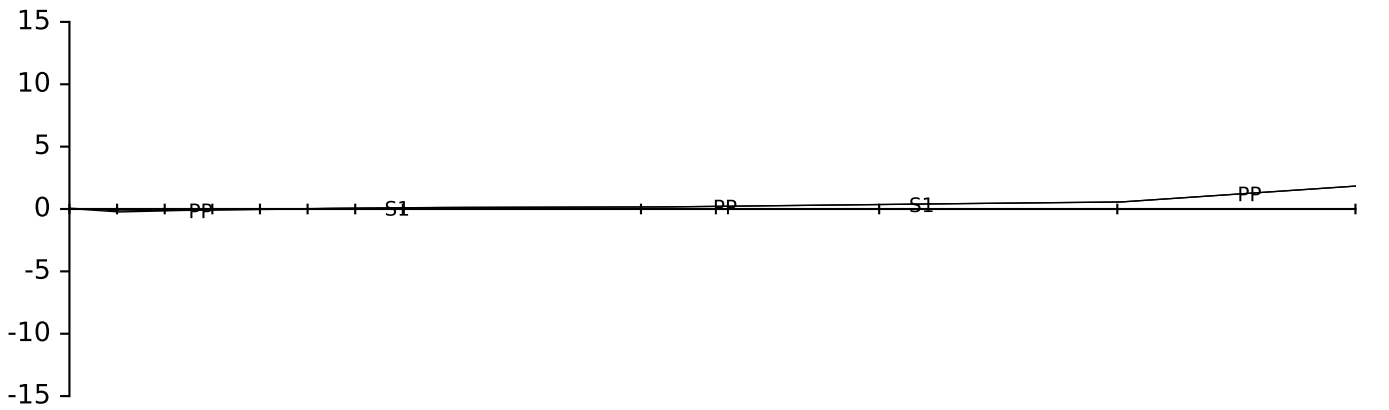
Hole: QTBL-0014  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022

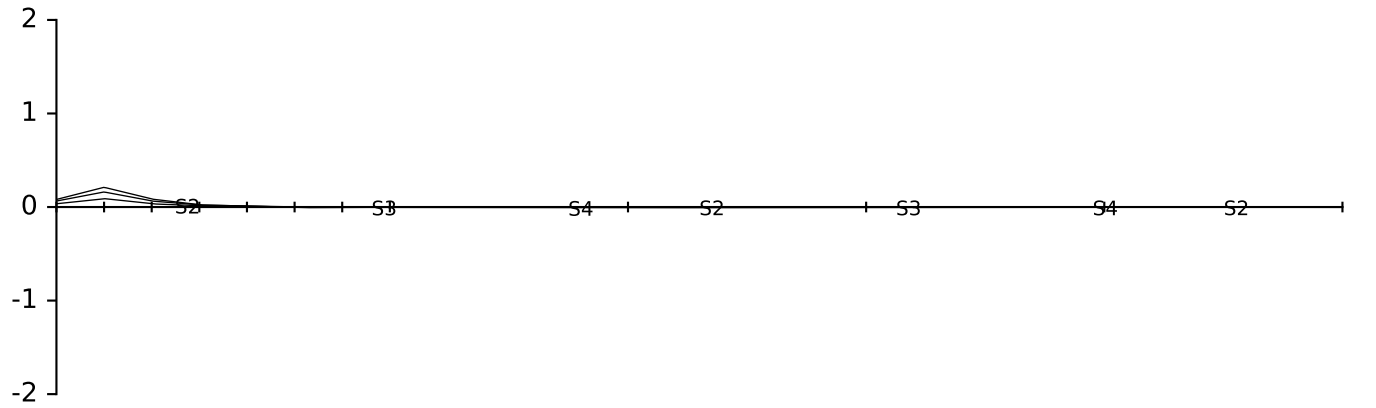
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1  
(nT/s)



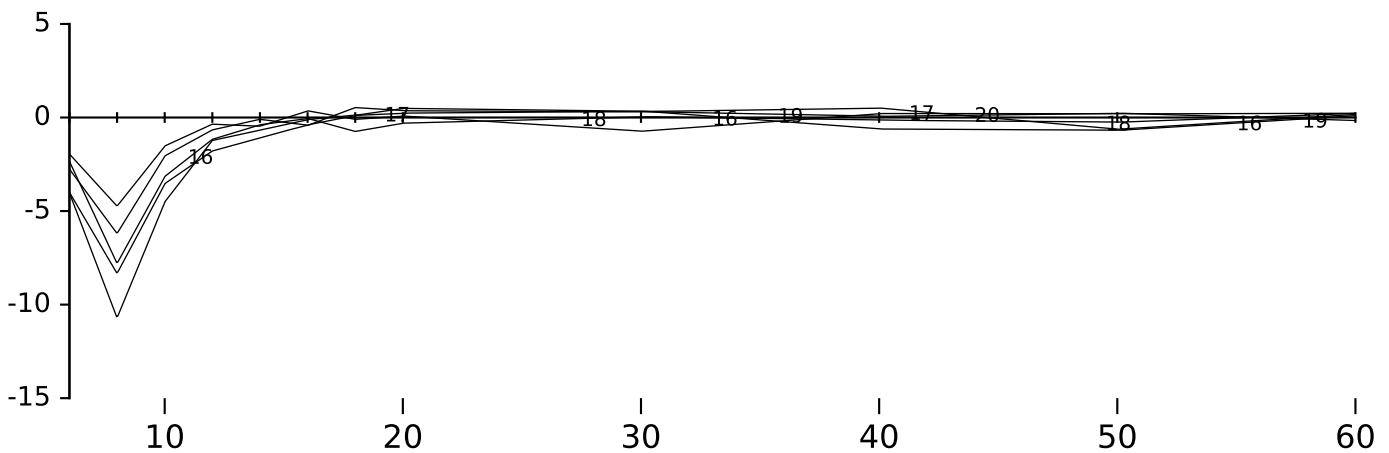
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)

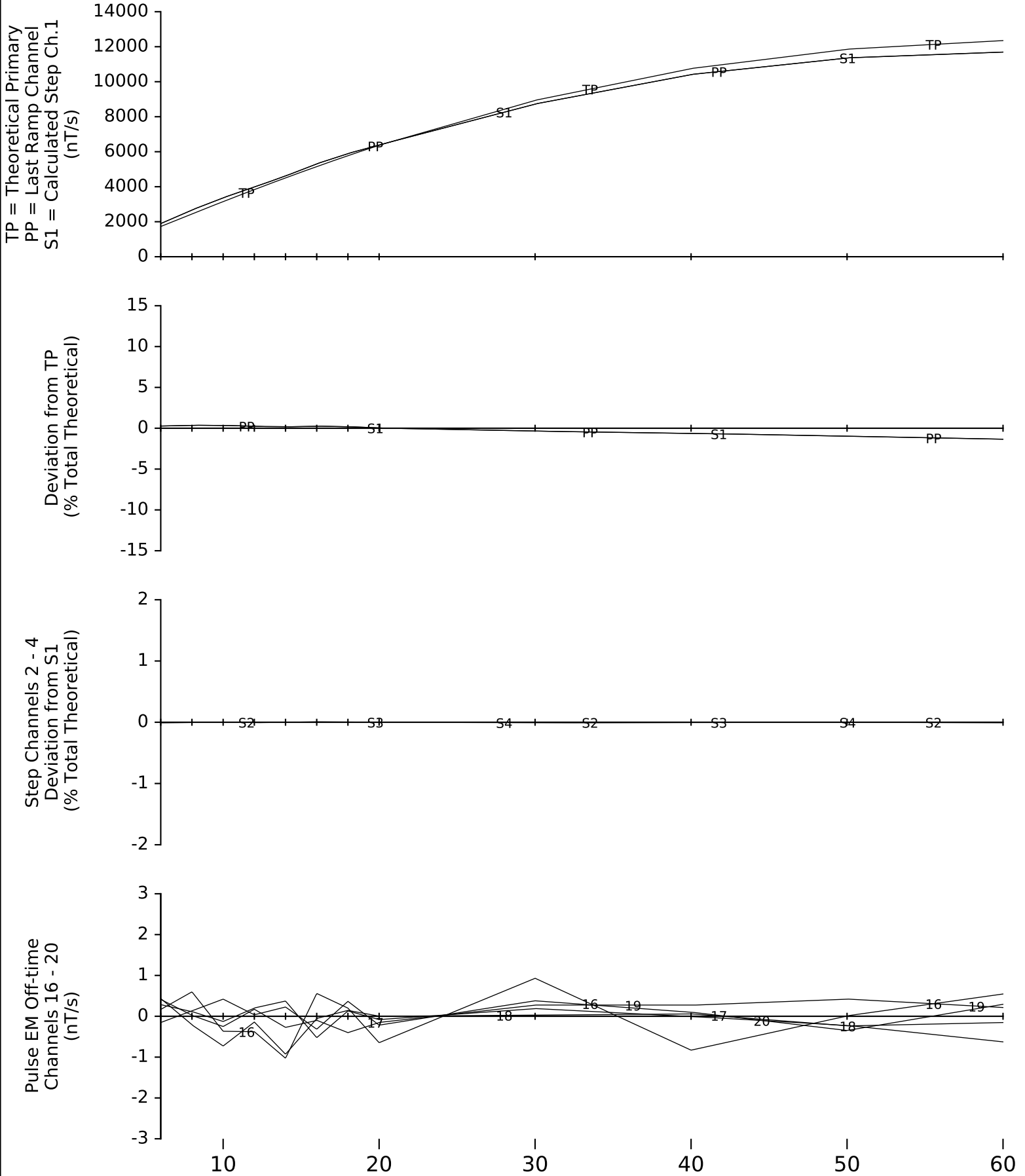


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0014  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 5, 2022



667,200m E      667,300m E      667,400m E      667,500m E      667,600m E      667,700m E      667,800m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
Hole and Loop Location Map  
Borehole Induction Pulse EM Survey

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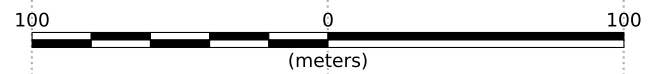
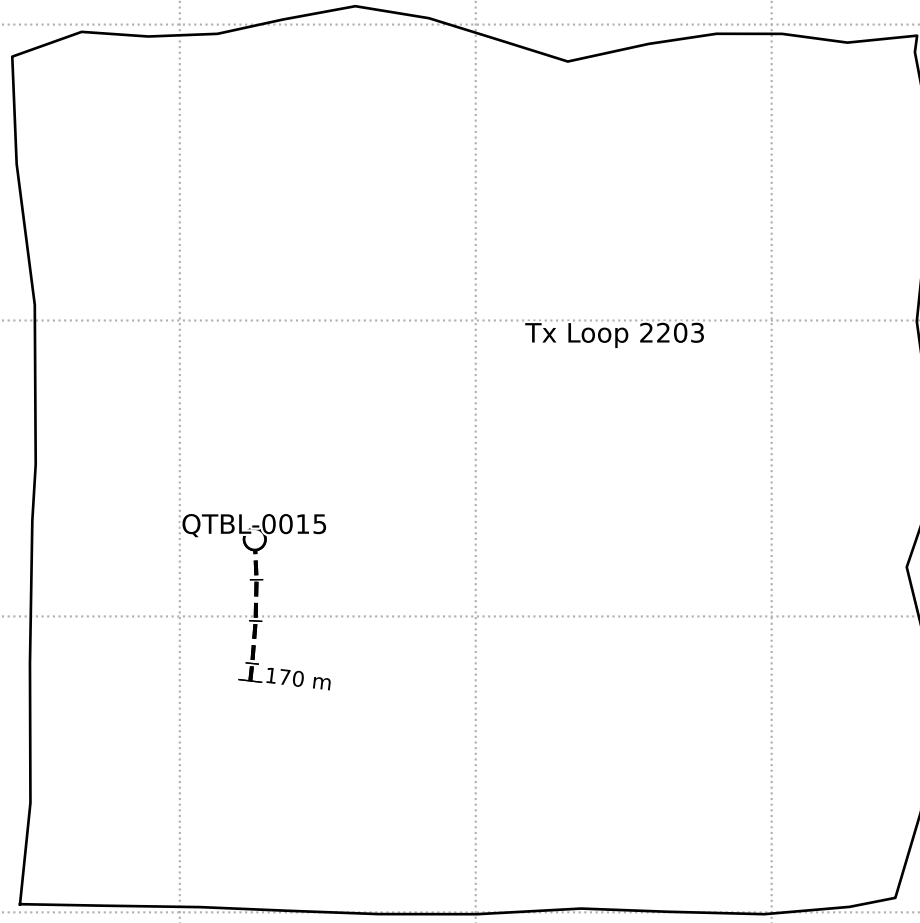
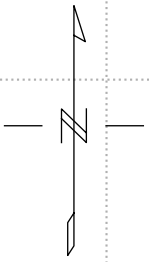
Rio Tinto Exploration  
Baril Lake  
Hole: QTBL-0015    Loop: 2203

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Timebase: 16.66 ms  
Survey Date: July 12, 2022

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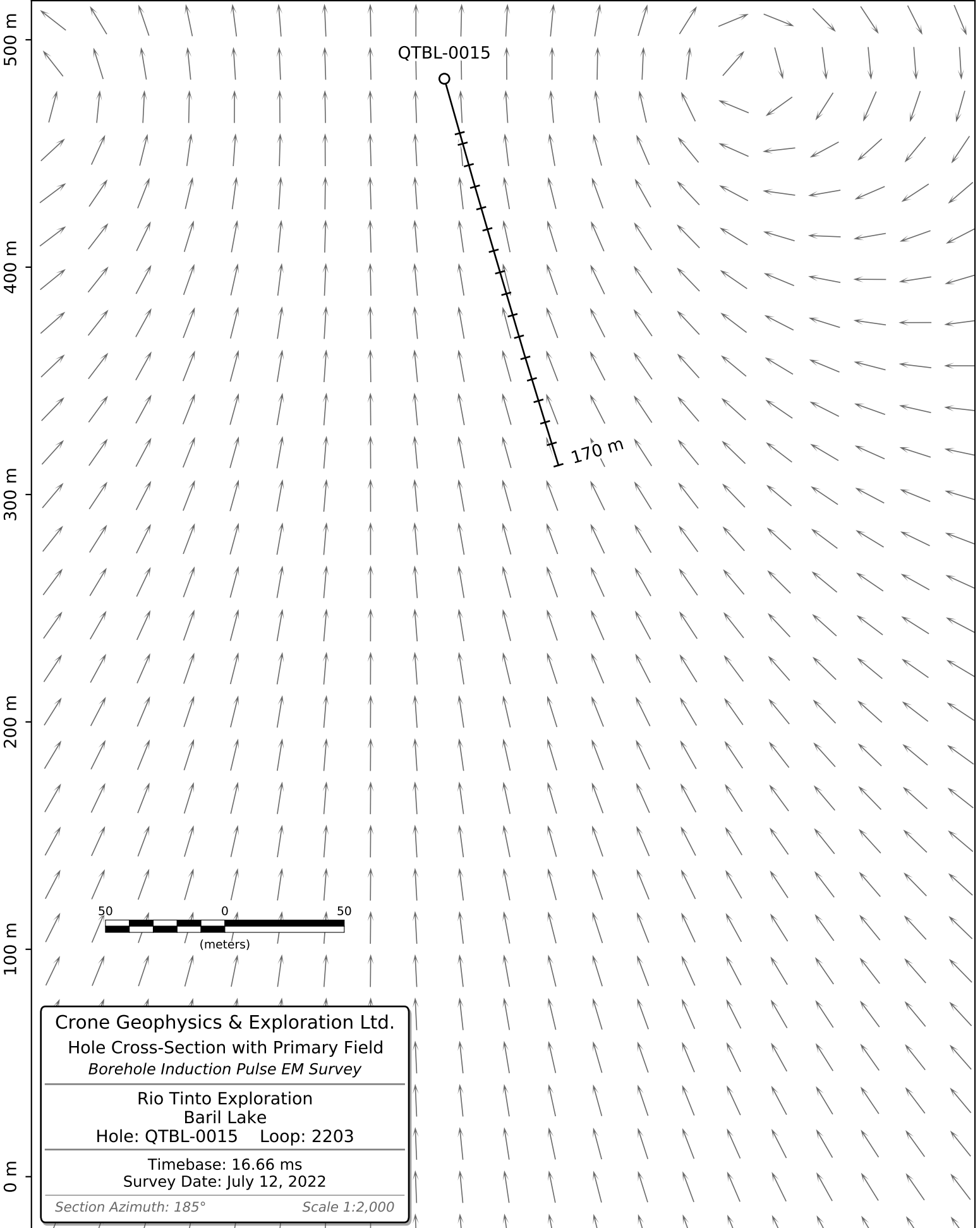
*NAD83 / UTM zone 15N*      *Scale 1:2,500*



**Legend**  
— Transmitter Loop  
-+- Borehole Trace

667,444m E  
5,401,698m N

667,408m E  
5,401,305m N

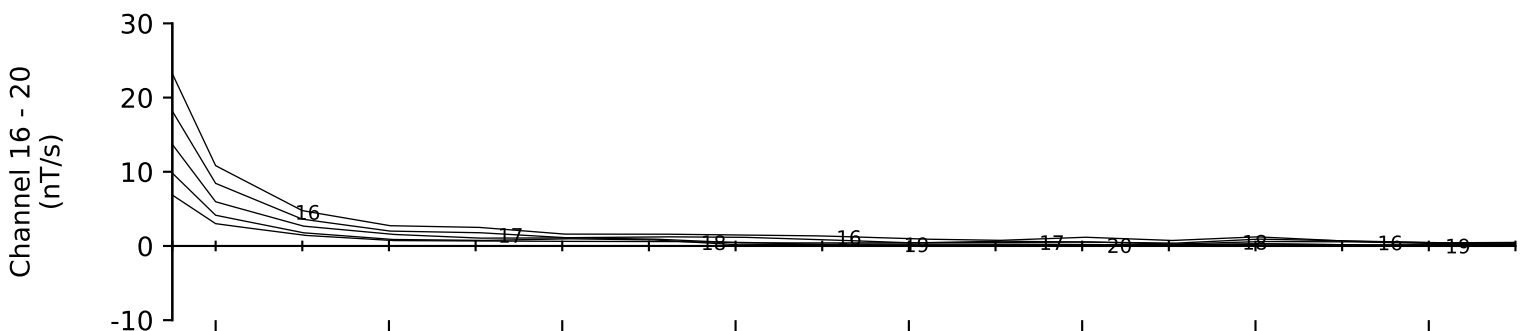
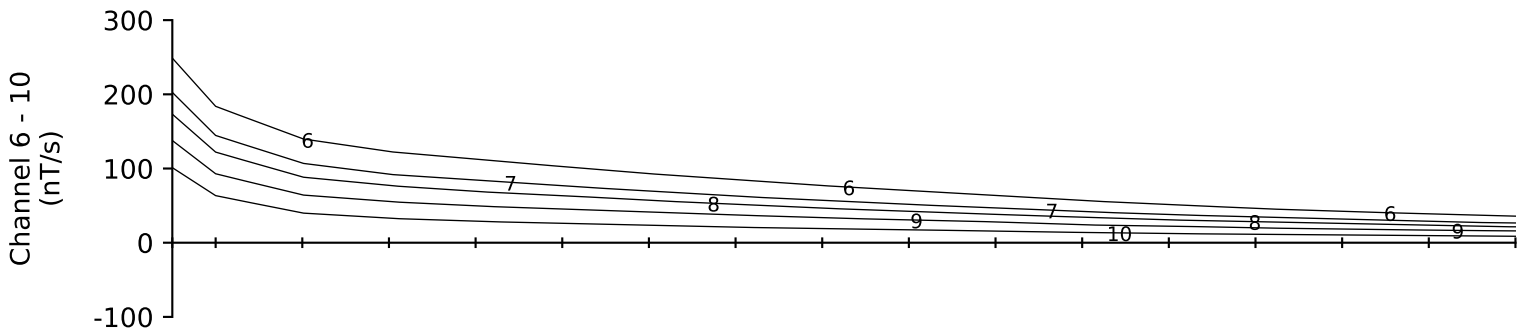
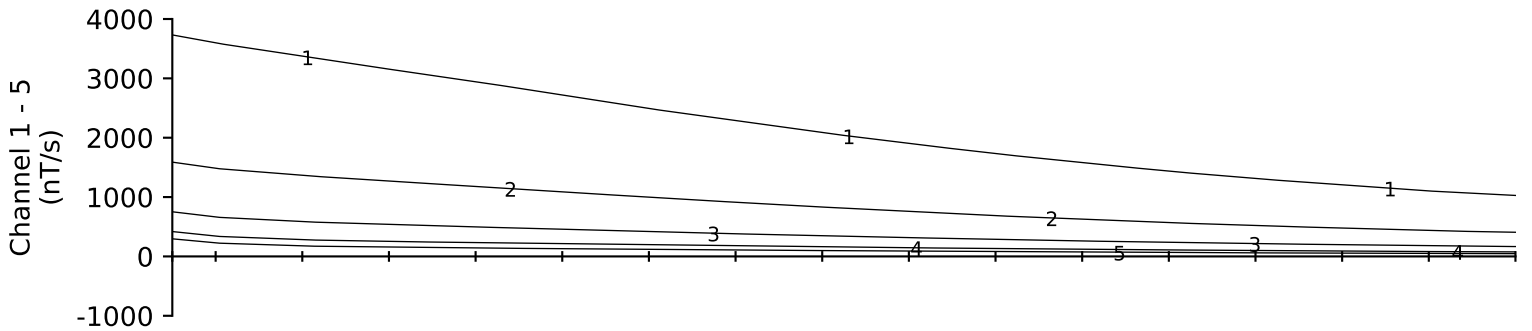
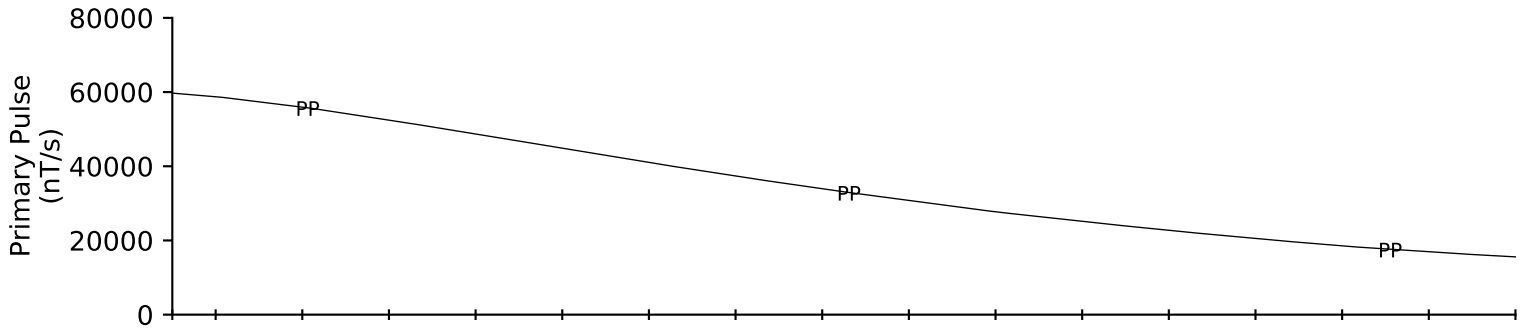


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

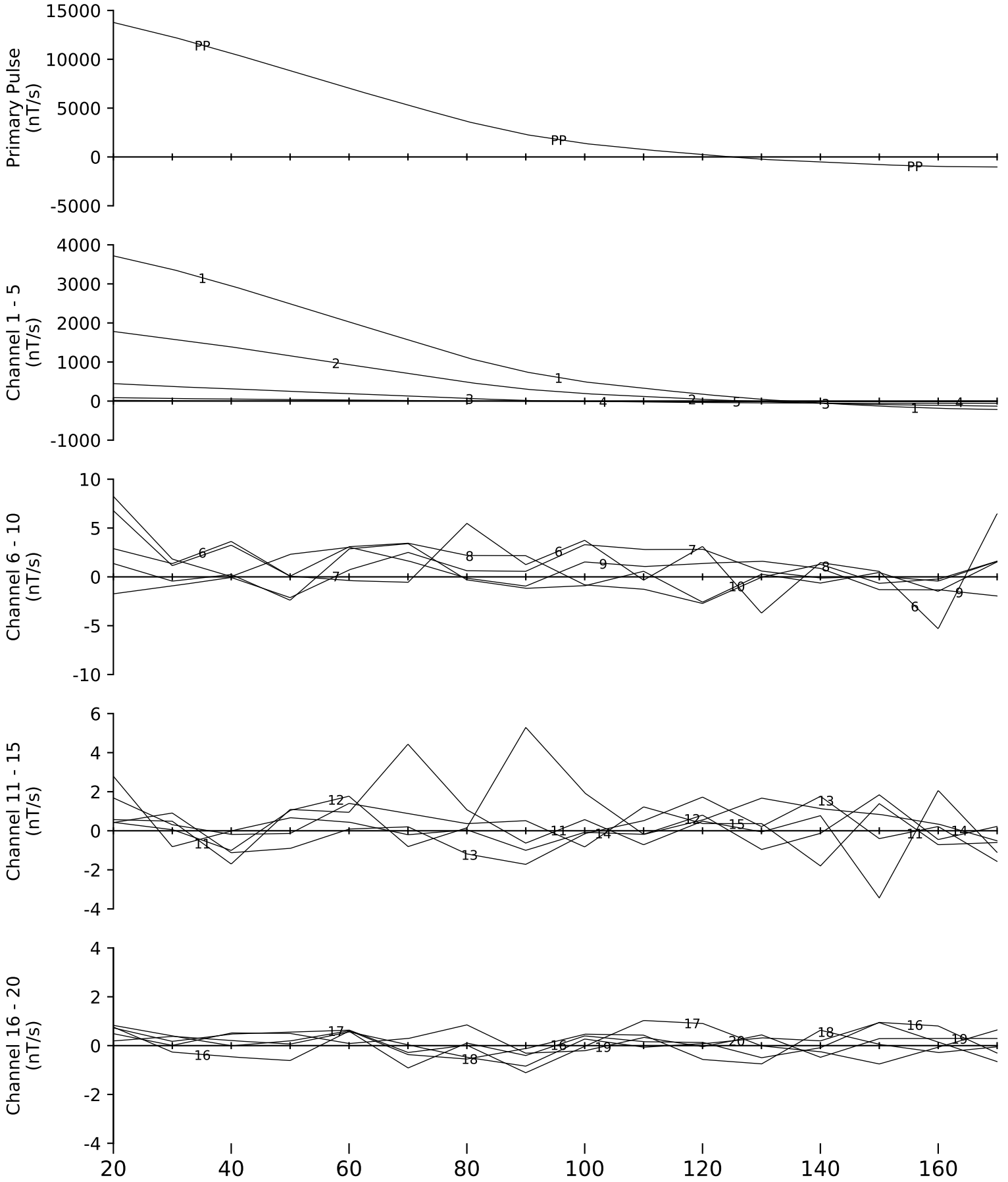


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

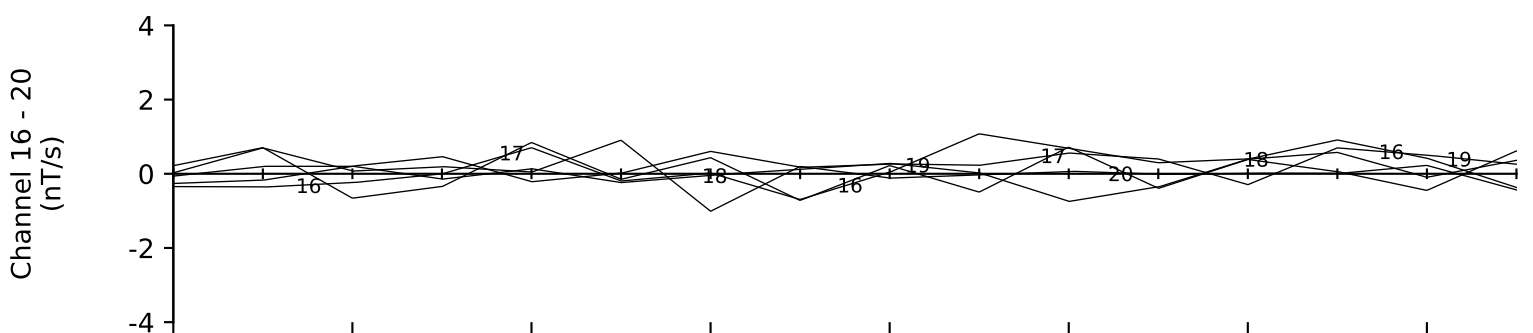
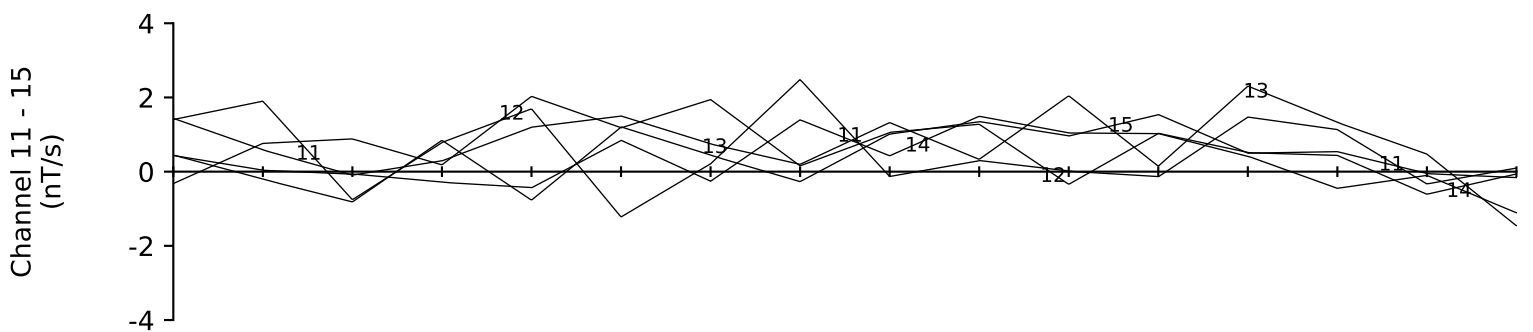
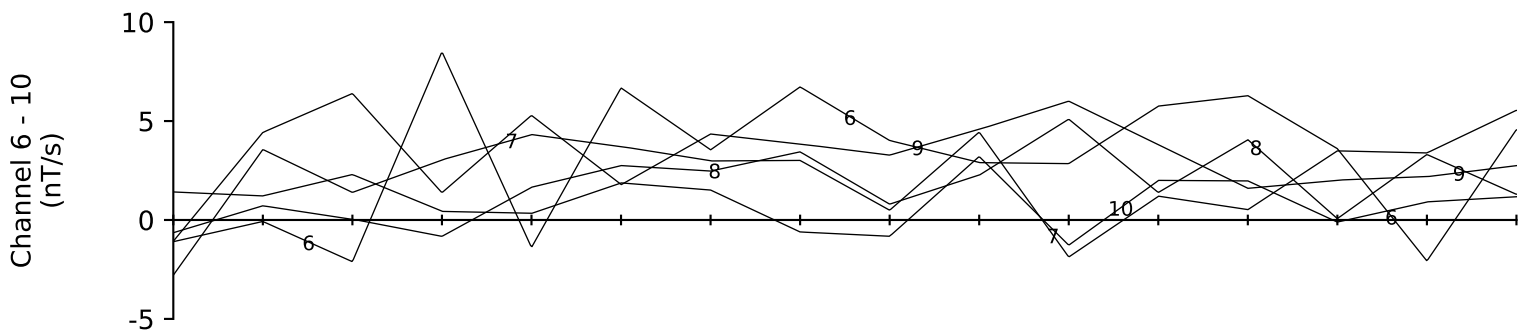
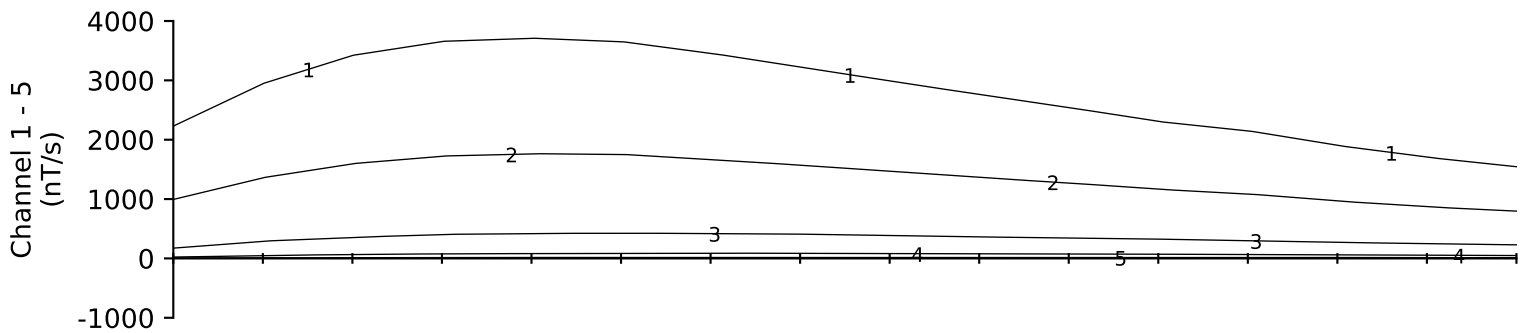
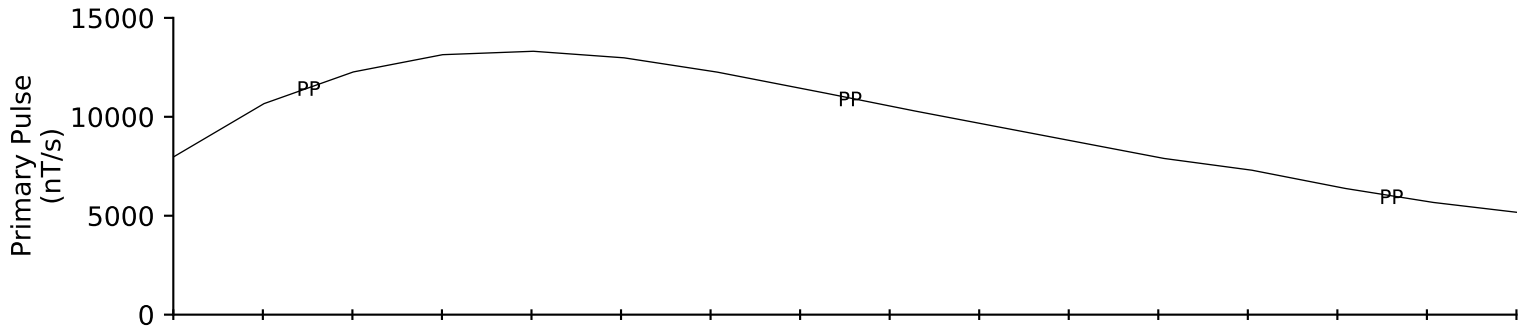


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022



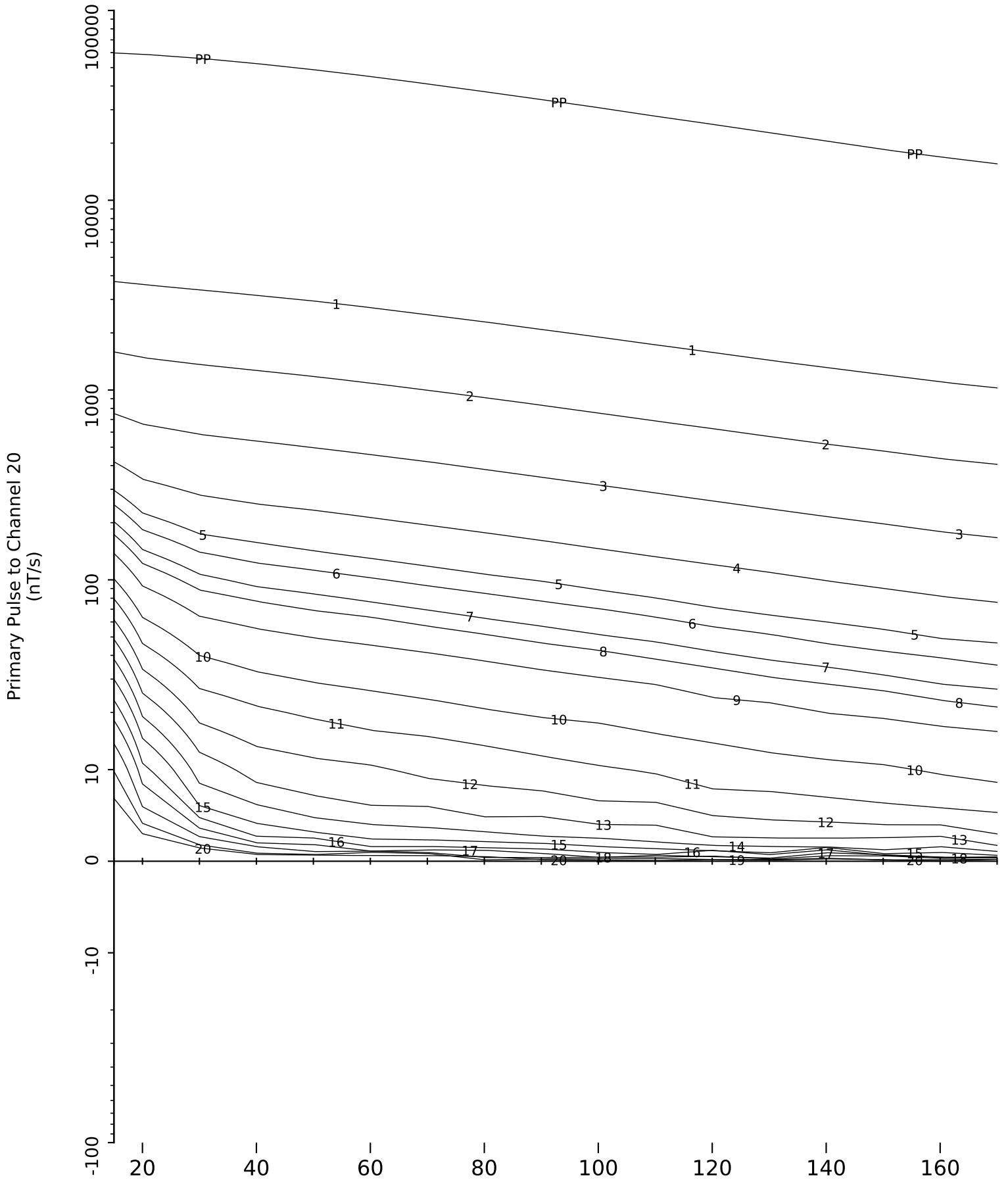


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

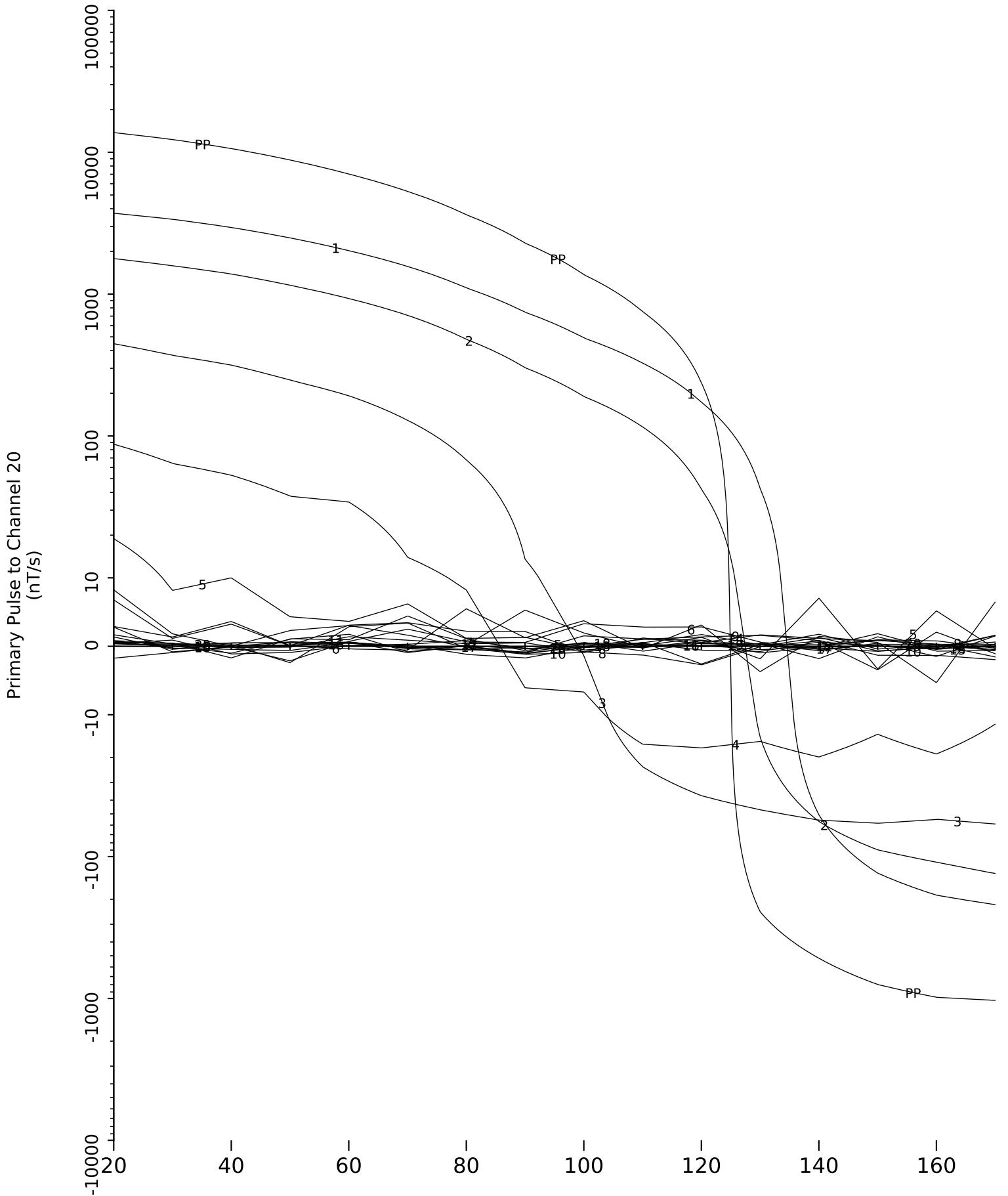


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

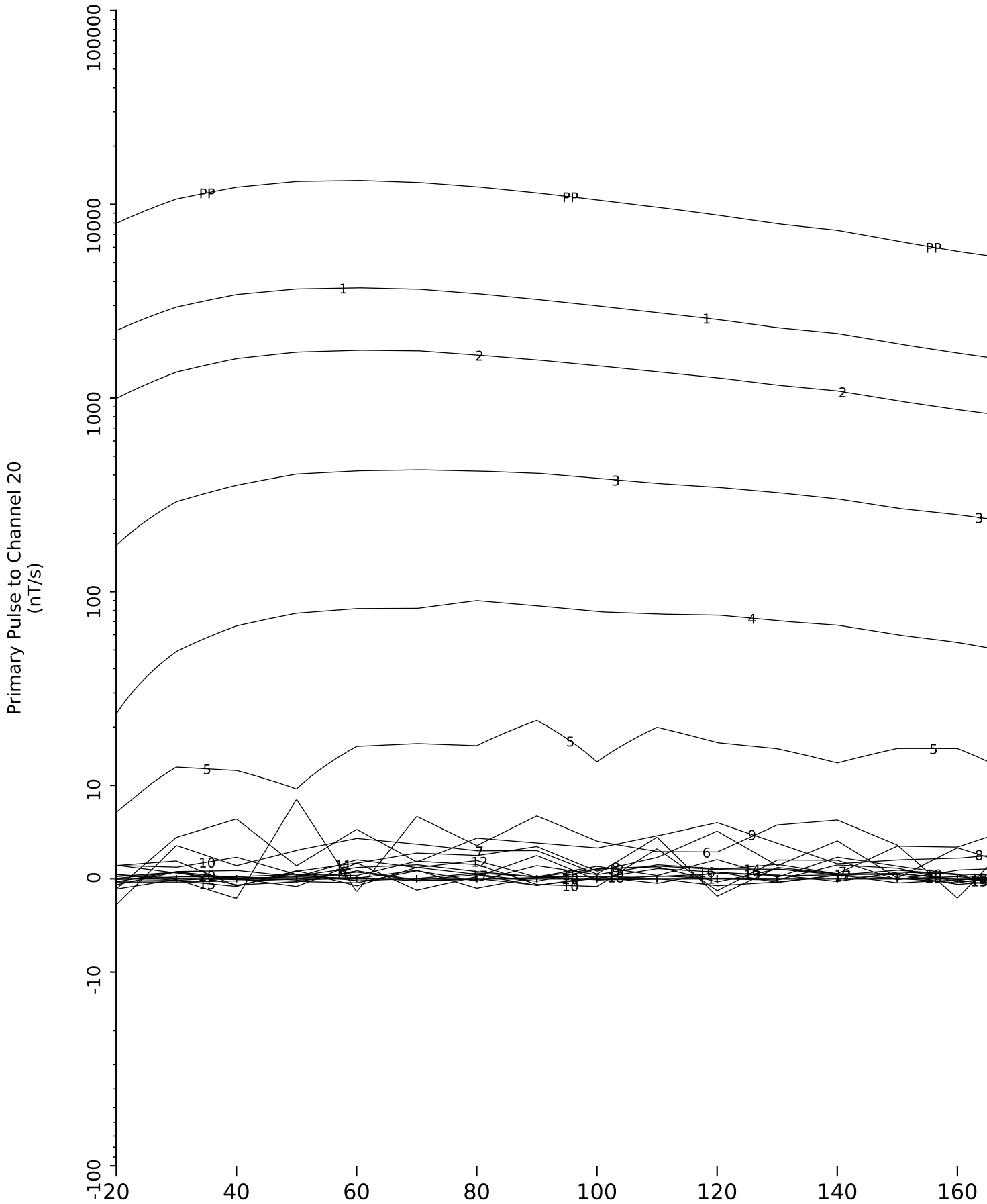


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

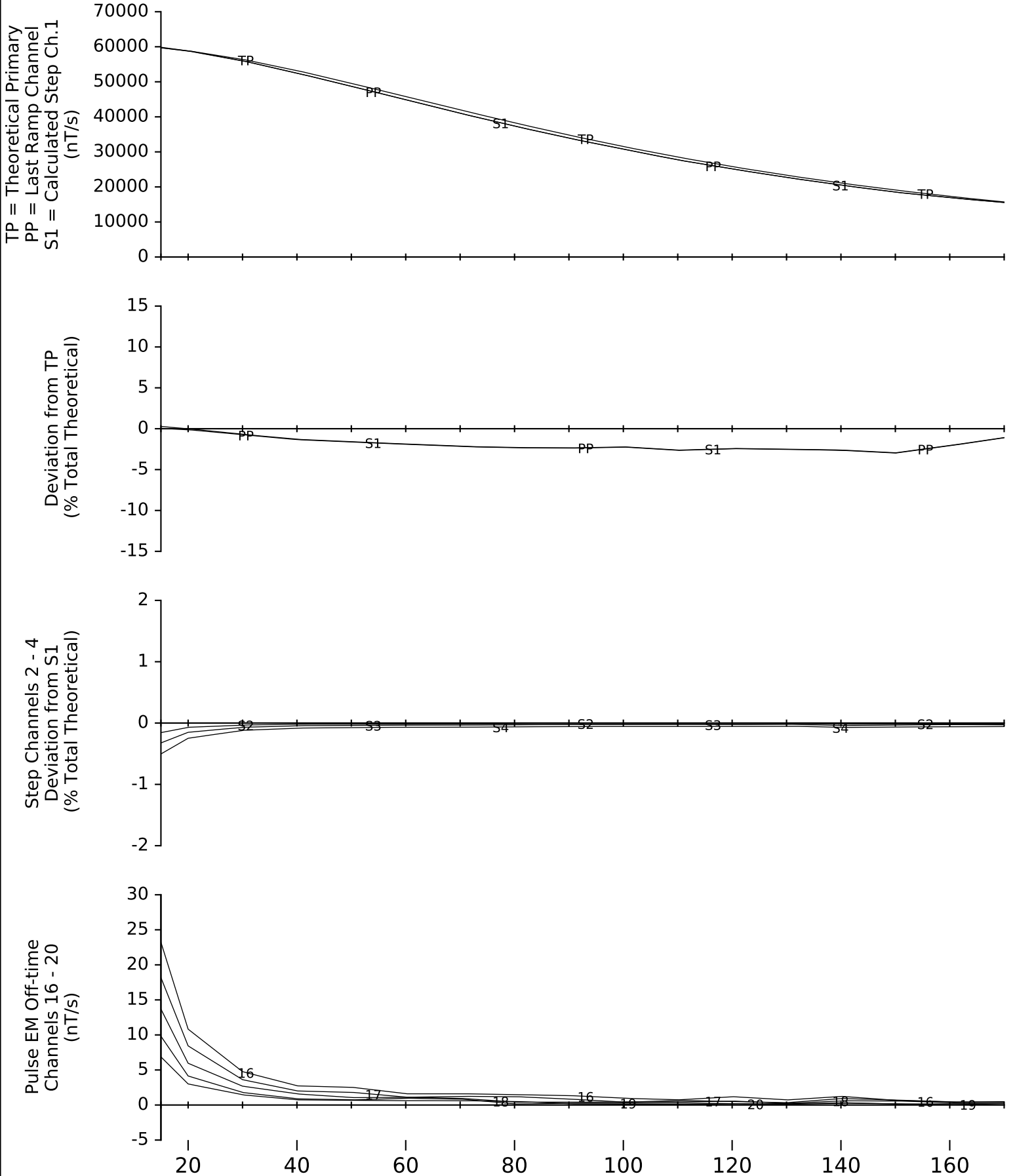


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022



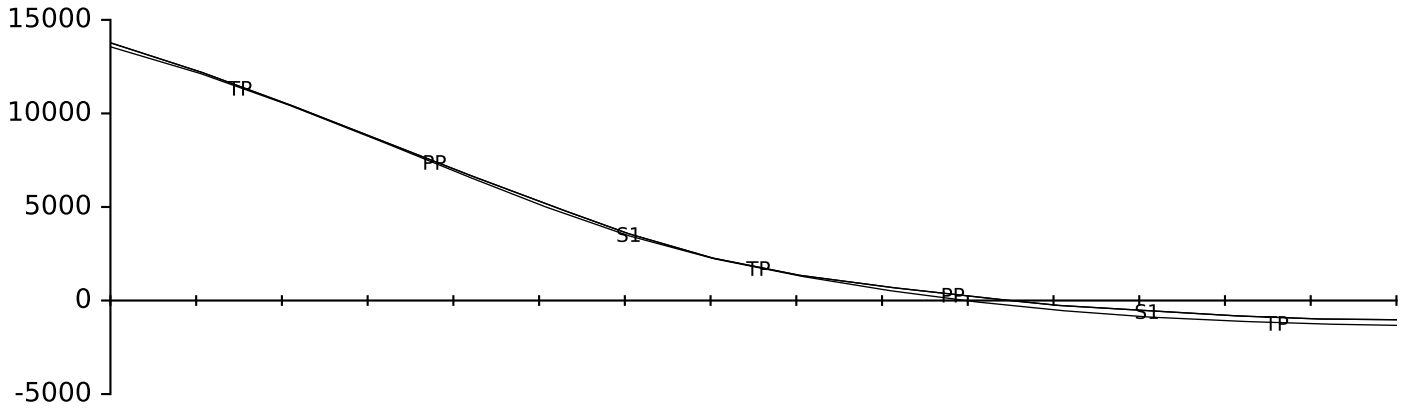
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

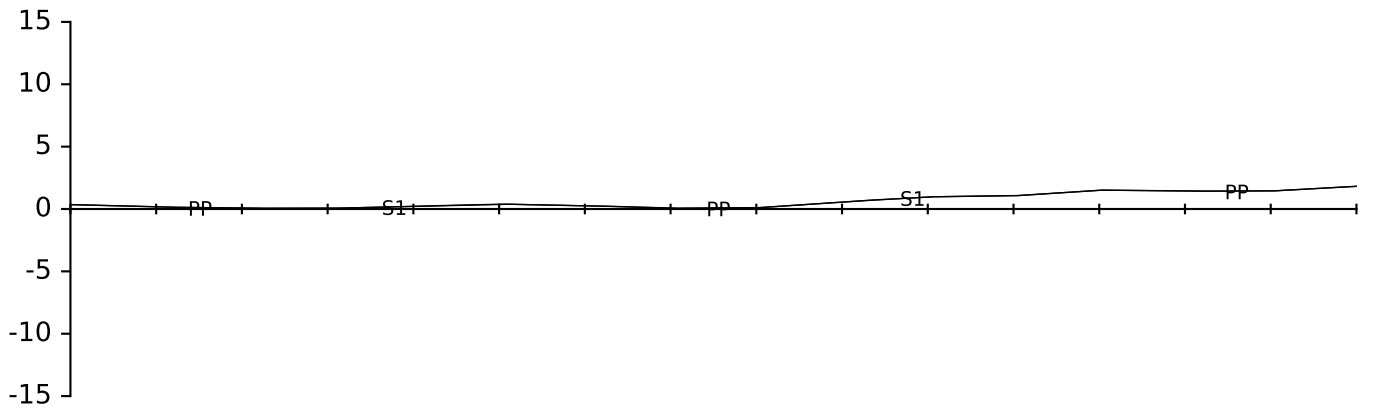
Hole: QTBL-0015  
Loop: 2203  
X Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022

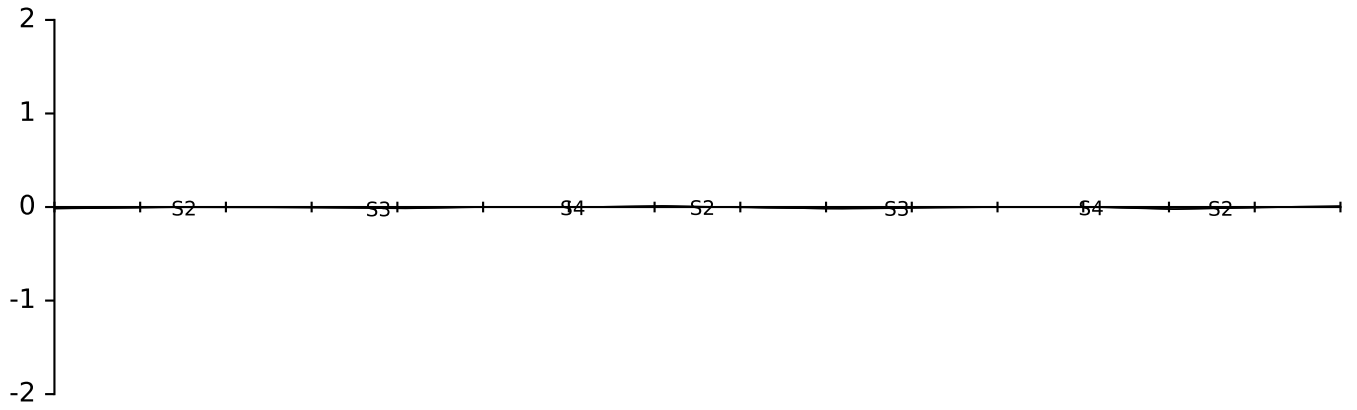
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



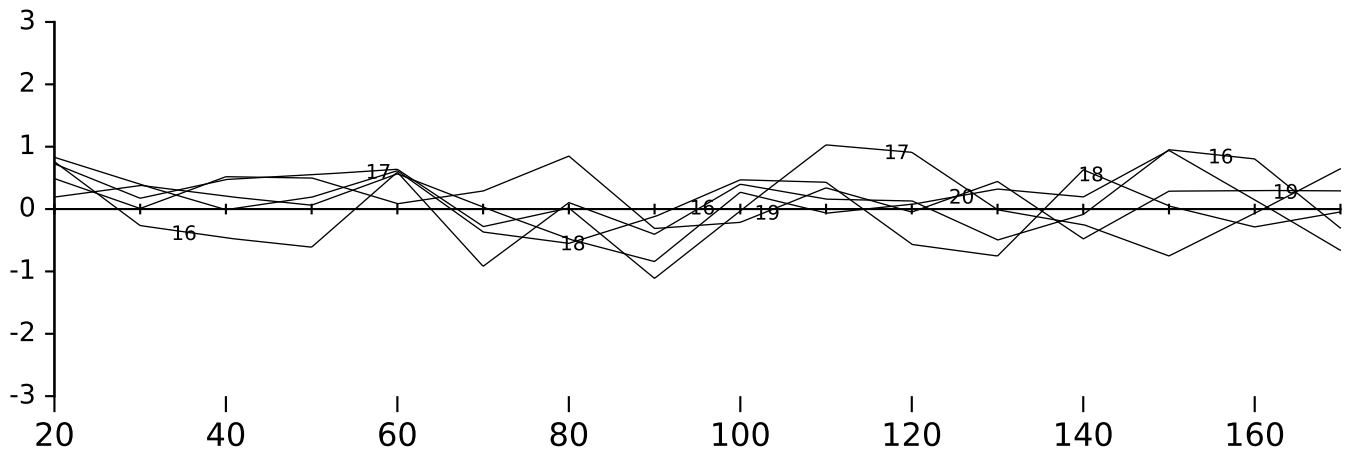
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)

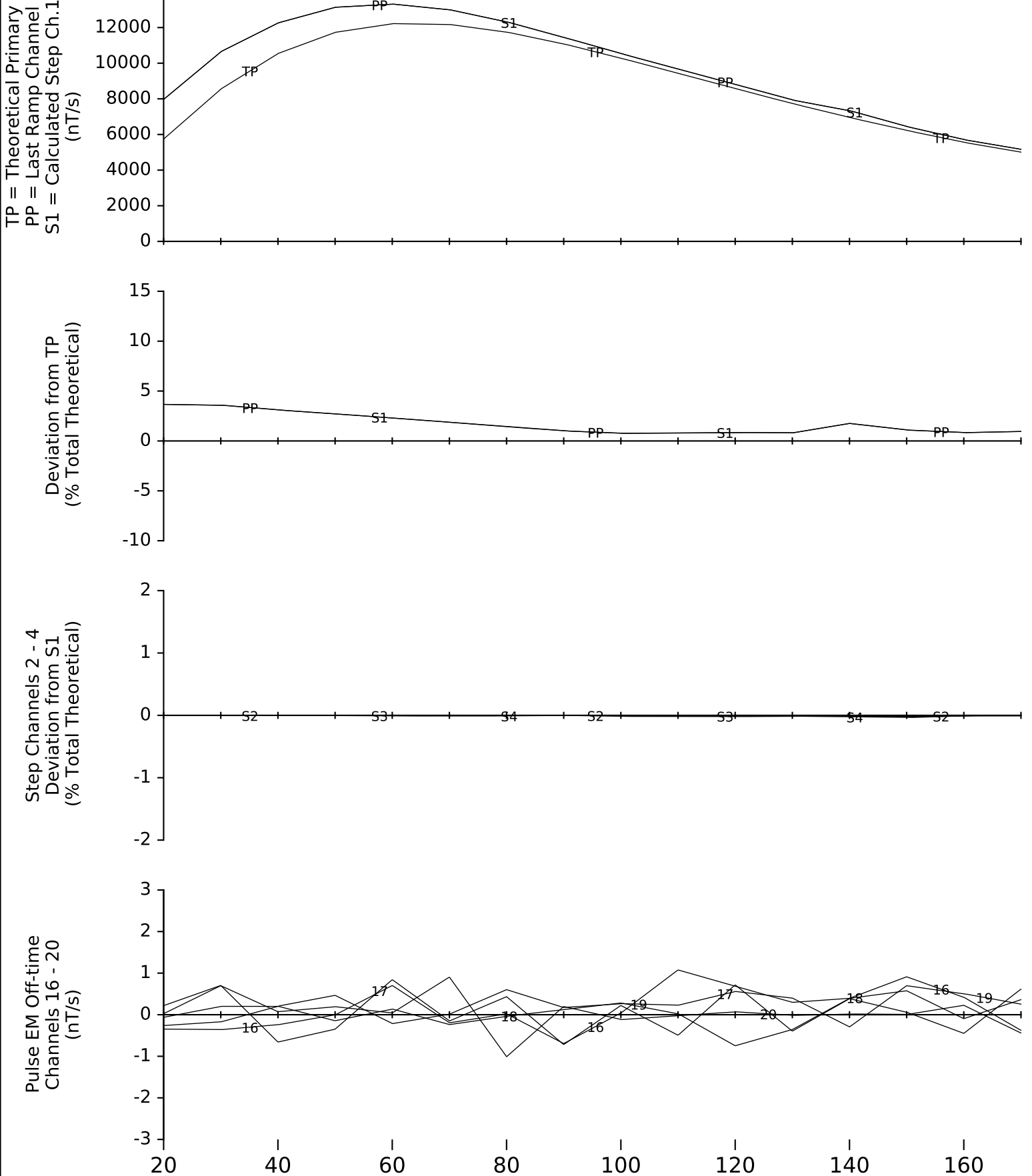


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.1 A

Hole: QTBL-0015  
Loop: 2203  
Y Component

Rio Tinto Exploration  
Baril Lake  
July 12, 2022



666,400m E

666,600m E

666,800m E

667,000m E

667,200m E

667,400m E

5,402,000m N

5,401,800m N

5,401,600m N

5,401,400m N

5,401,200m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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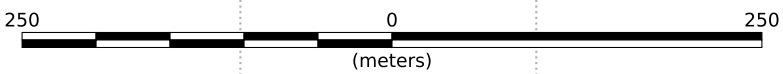
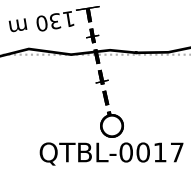
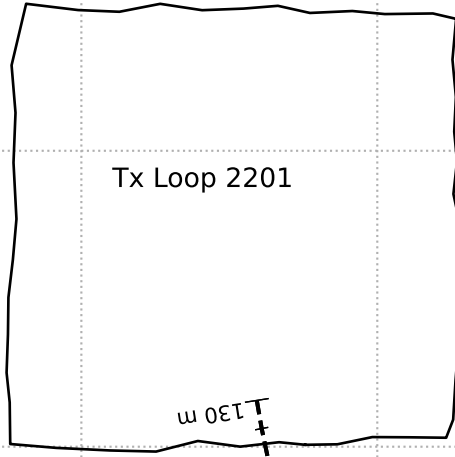
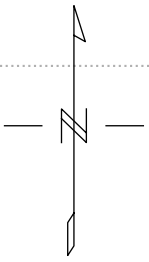
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0017 Loop: 2201

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Timebase: 16.66 ms  
 Survey Date: July 31 - August 04, 2022

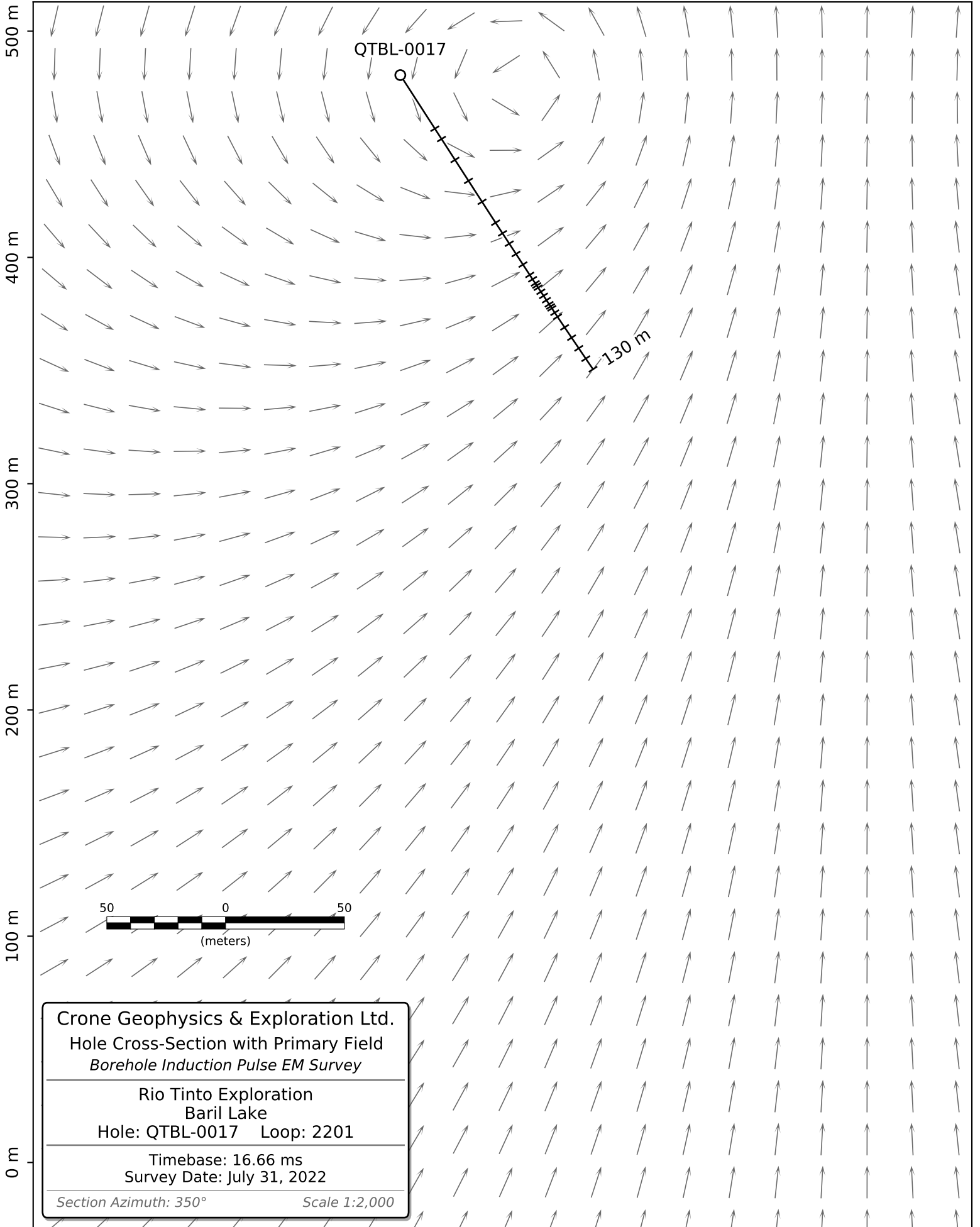
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*NAD83 / UTM zone 15N* *Scale 1:5,000*



**Legend**  
 — Transmitter Loop  
 -+- Borehole Trace





Crone Geophysics & Exploration Ltd.  
Hole Cross-Section with Primary Field  
*Borehole Induction Pulse EM Survey*

Rio Tinto Exploration  
Baril Lake  
Hole: QTBL-0017 Loop: 2201

Timebase: 16.66 ms  
Survey Date: July 31, 2022

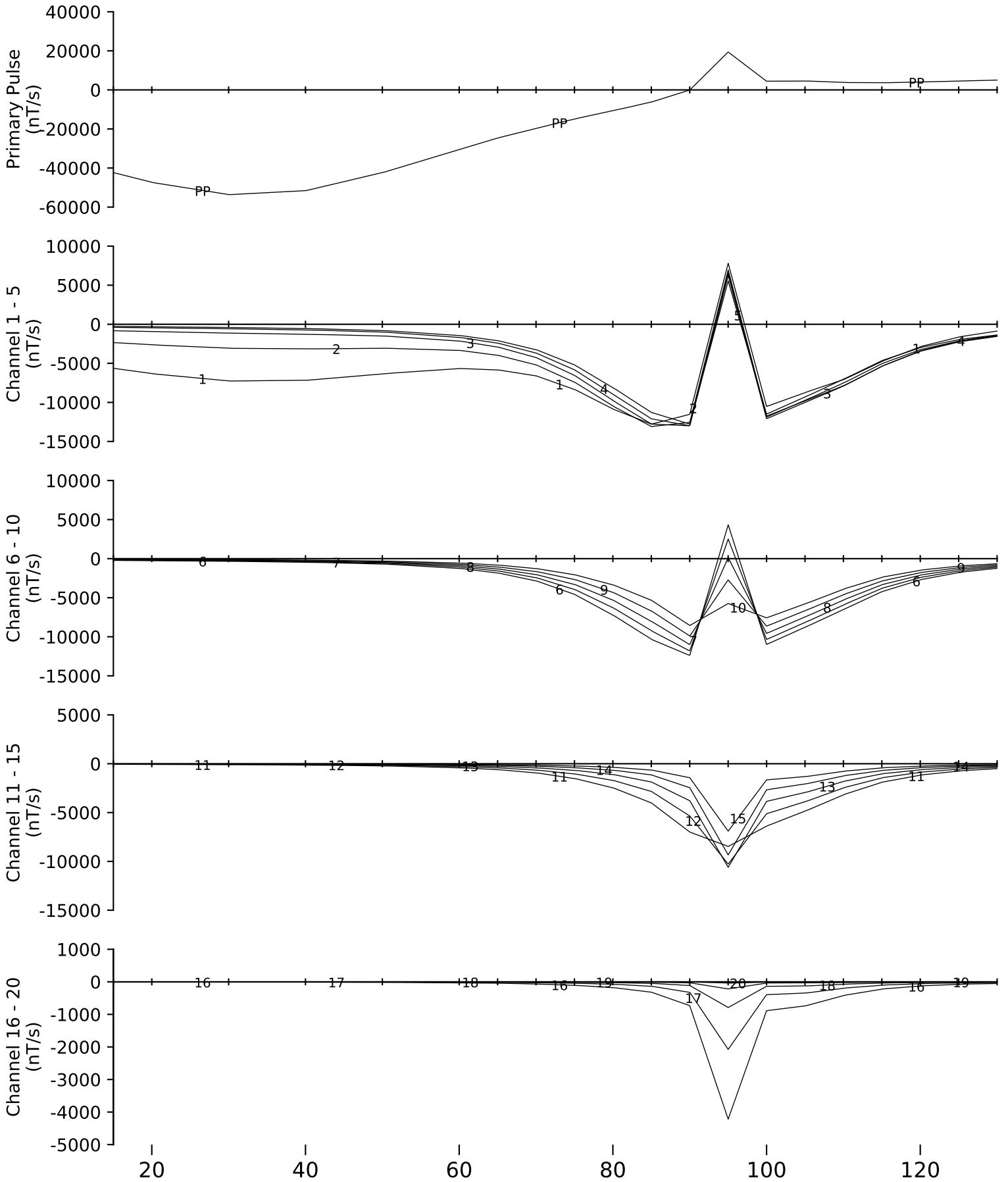
Section Azimuth: 350° Scale 1:2,000

Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 31, 2022

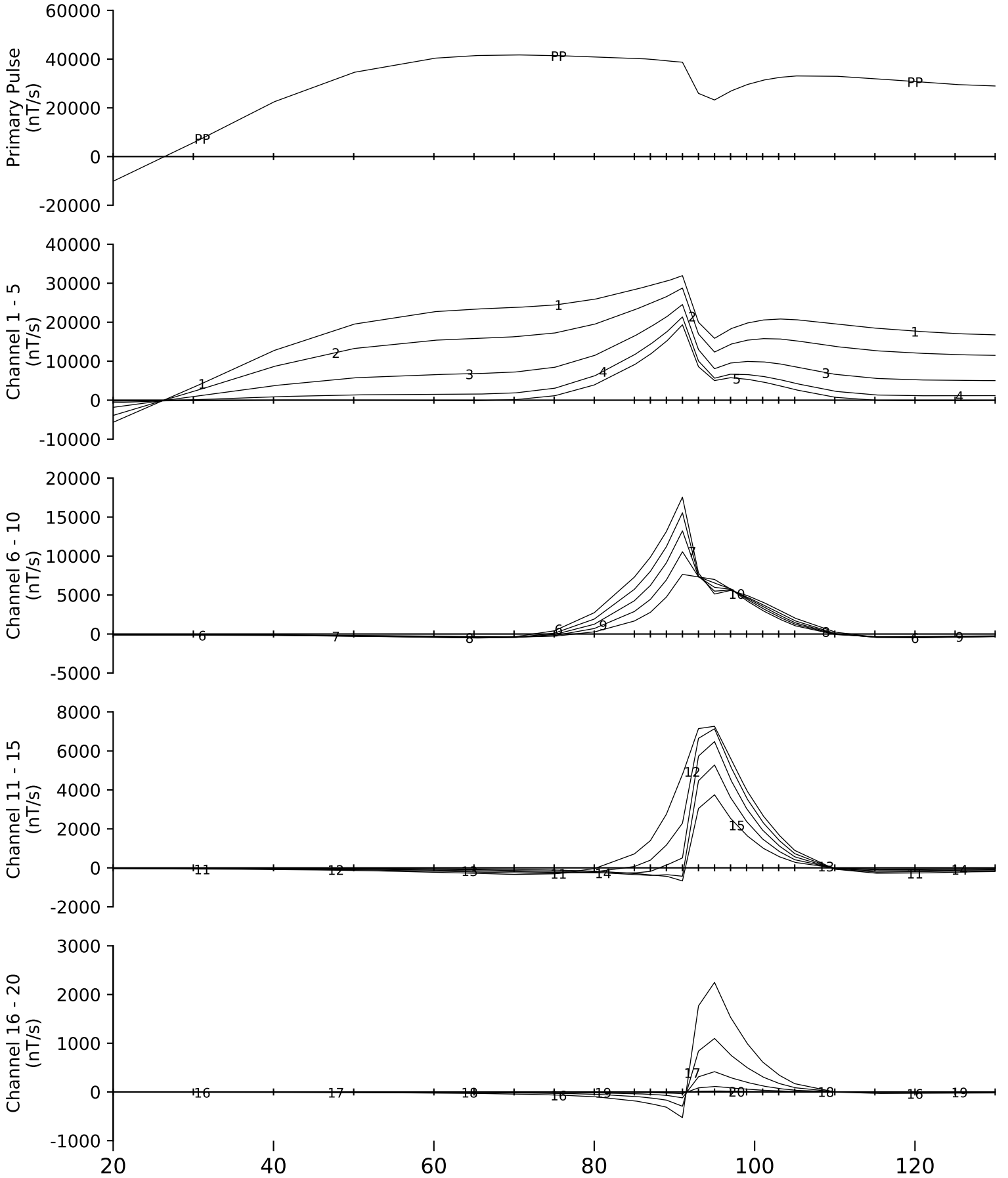


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

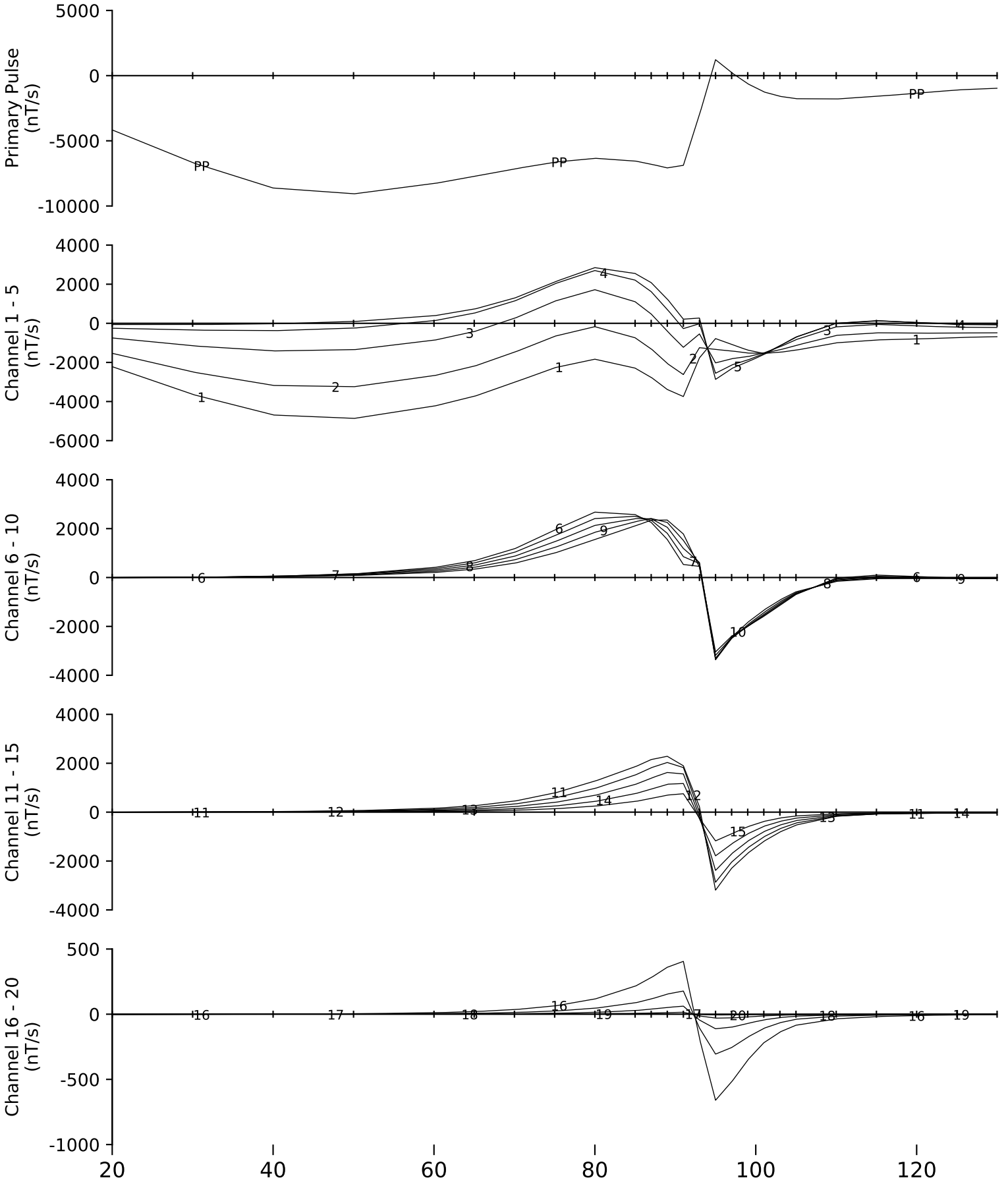


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

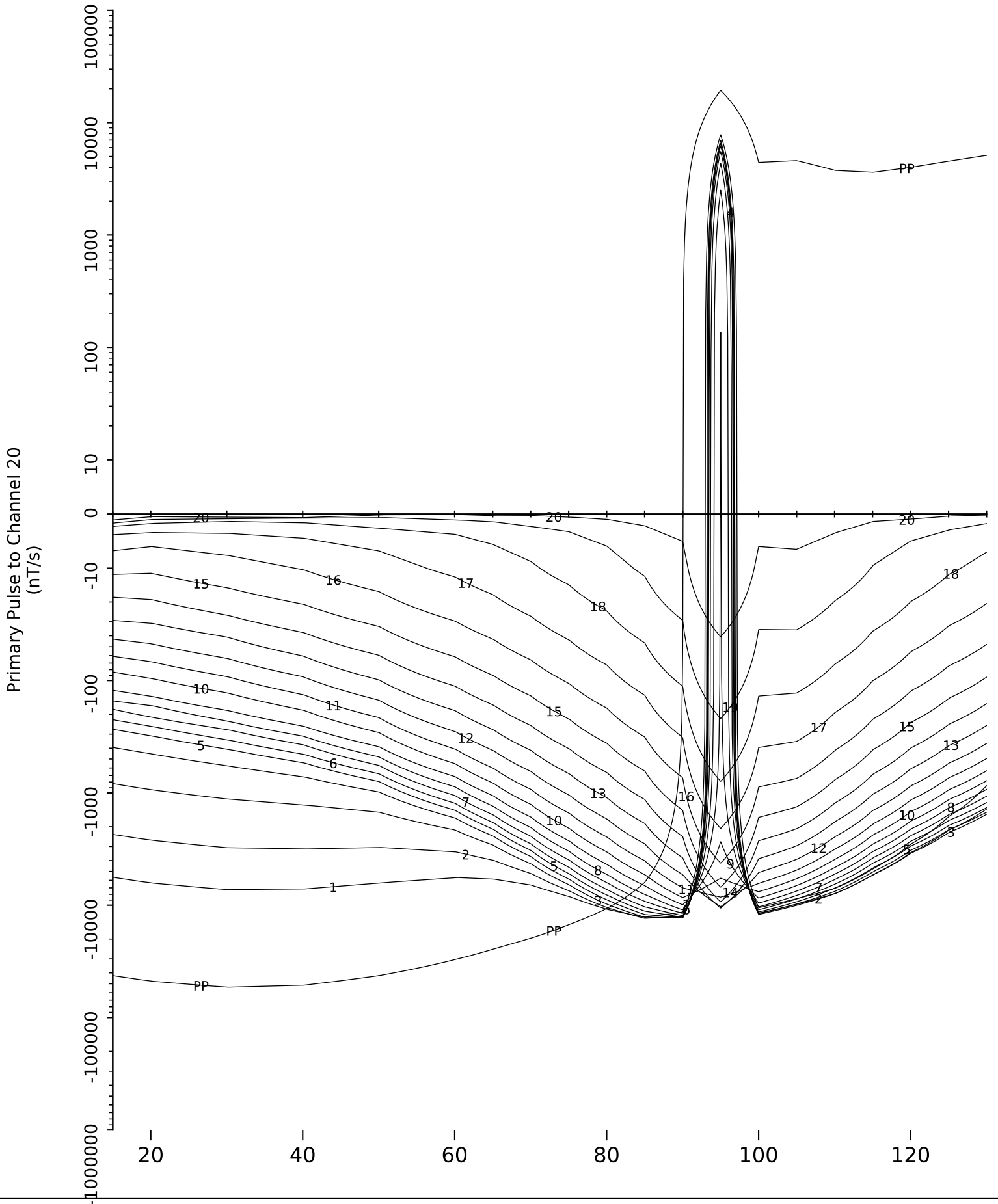


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 31, 2022

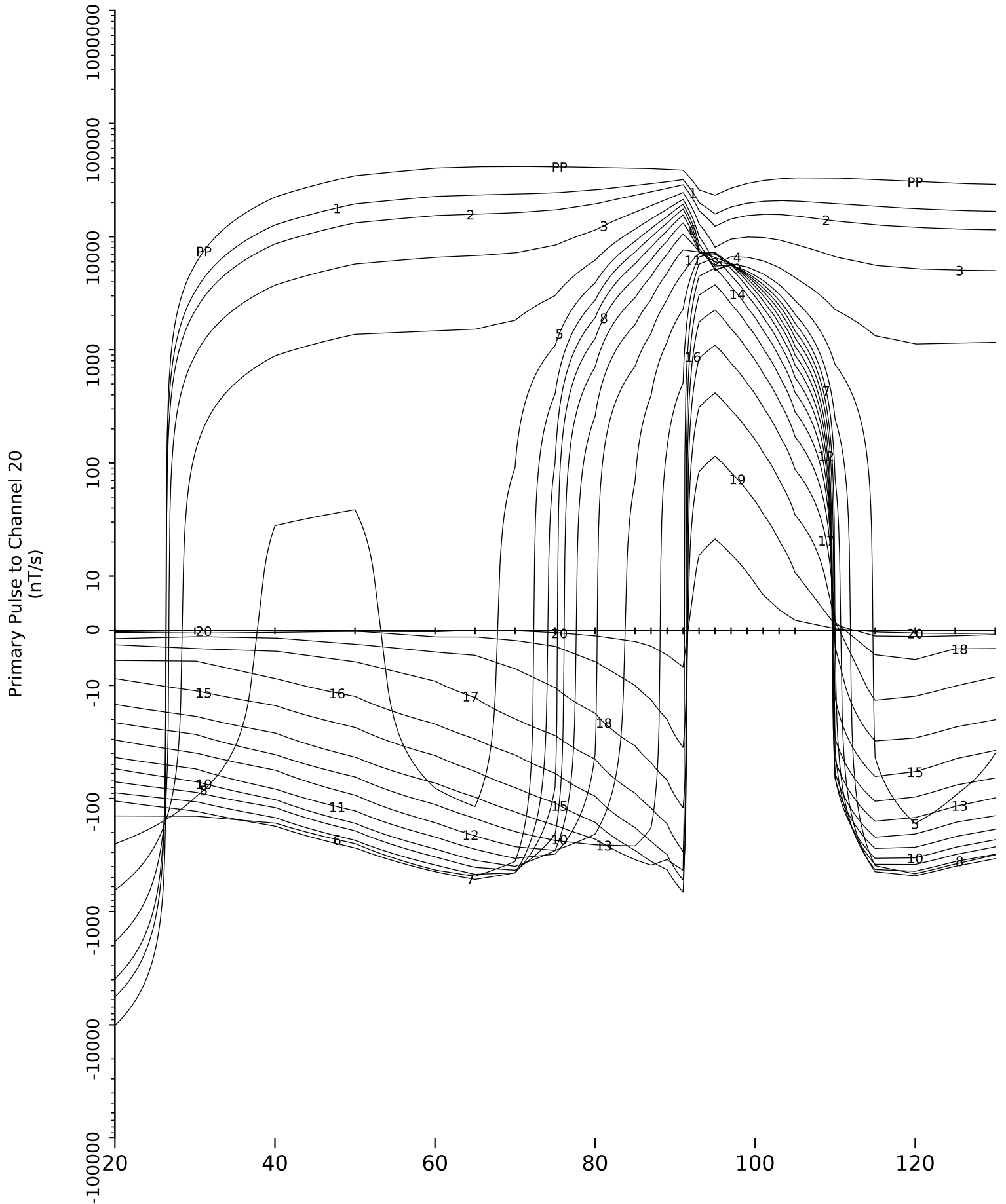


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

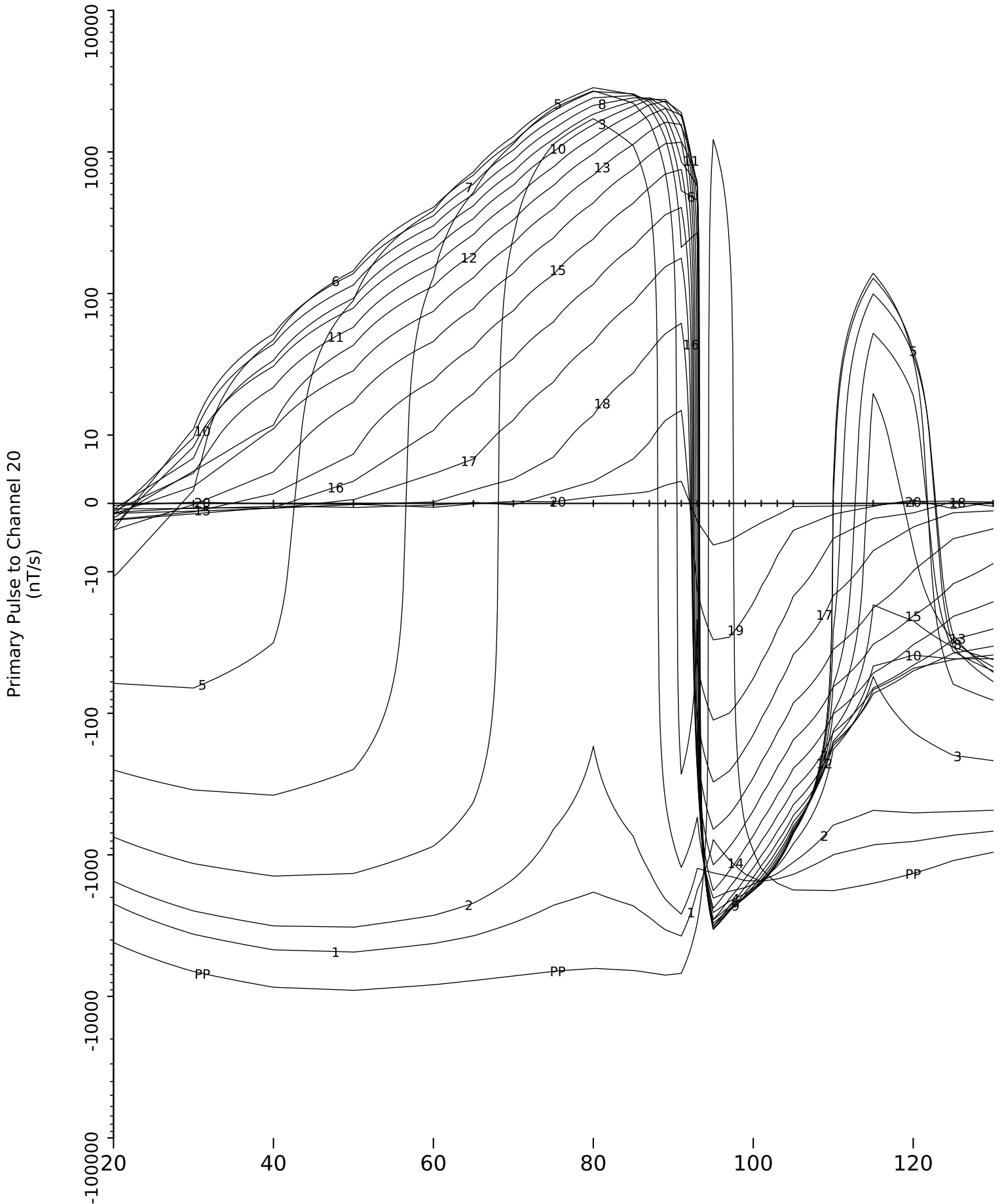


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022



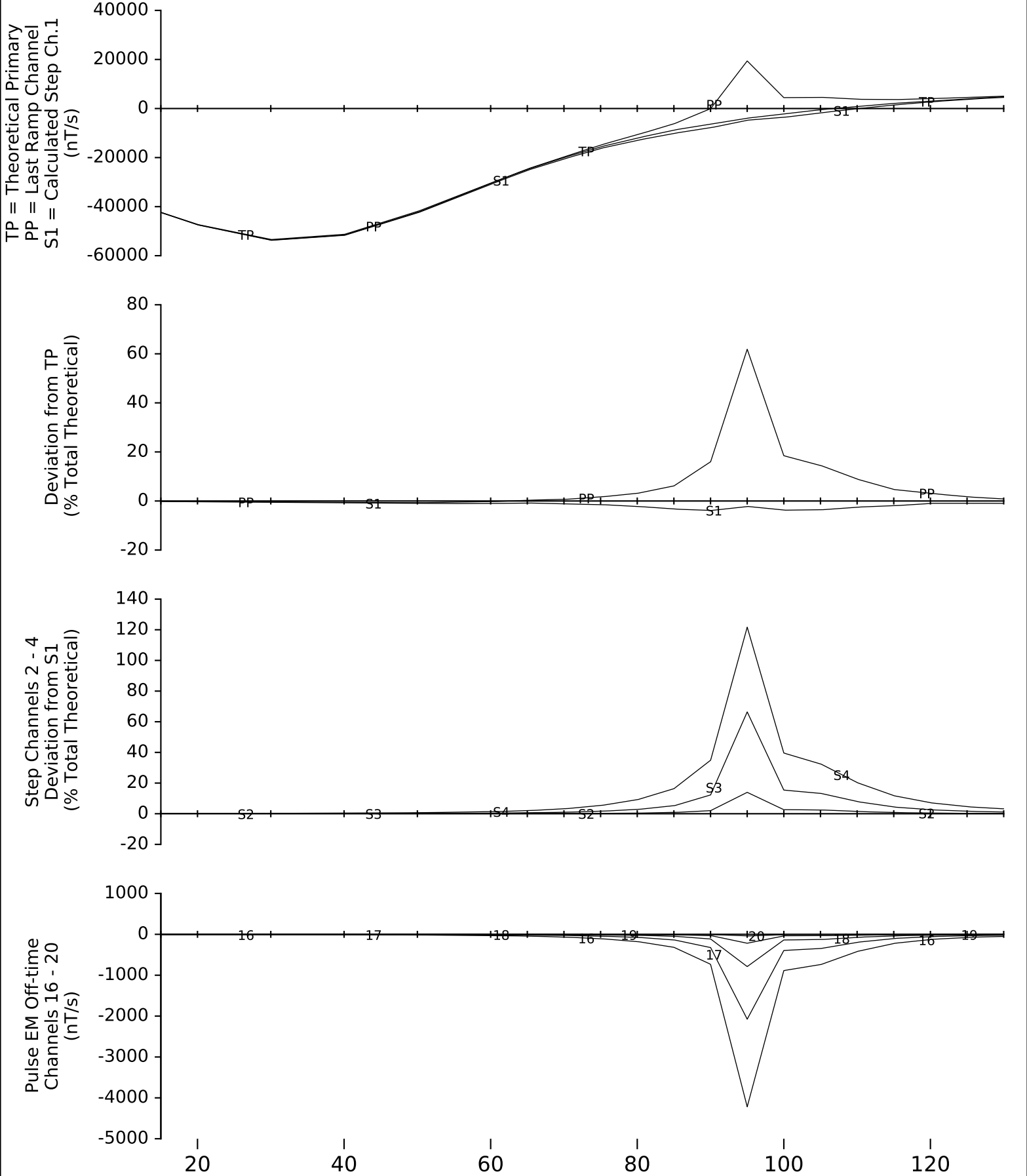


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
July 31, 2022

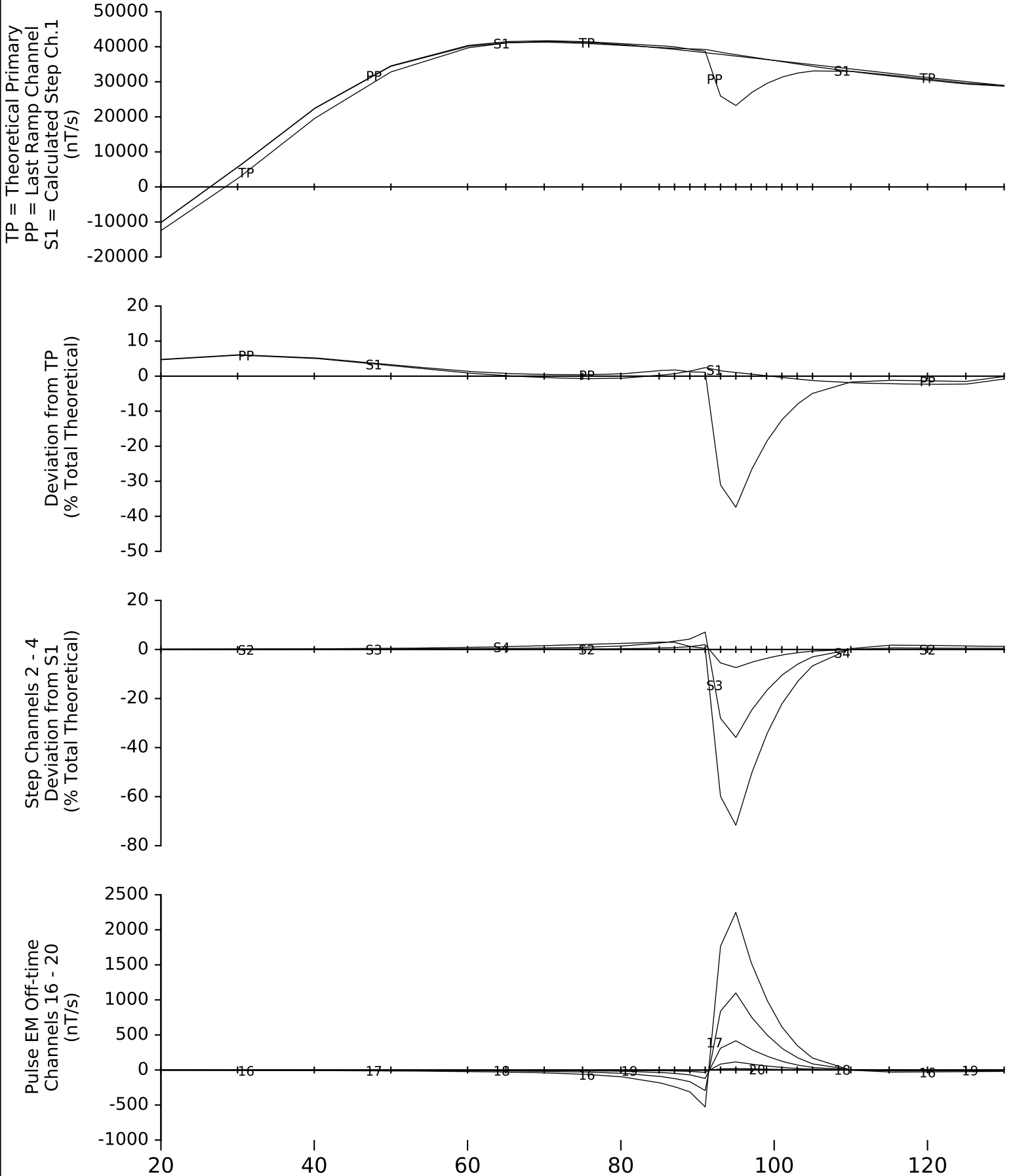


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0017  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022



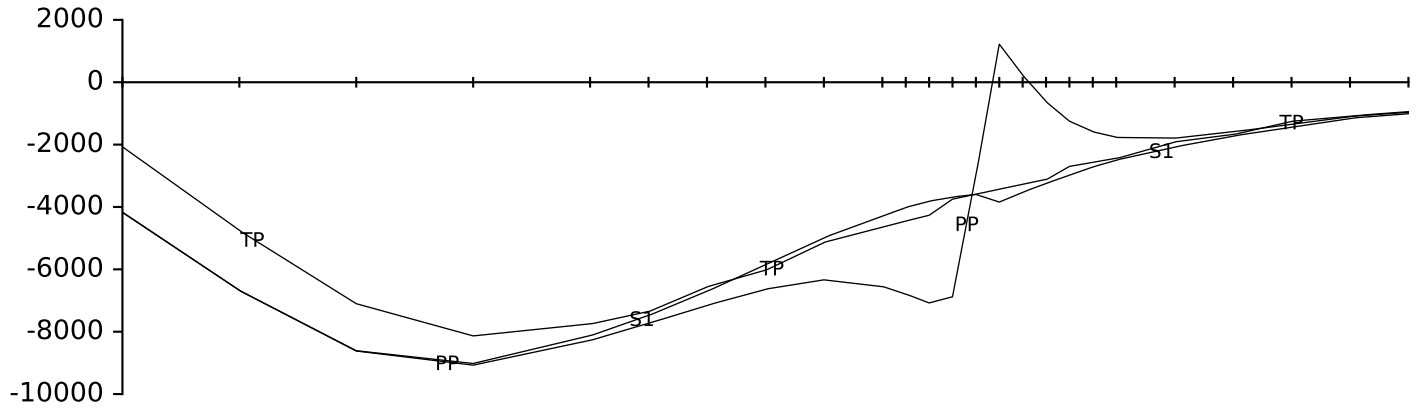
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

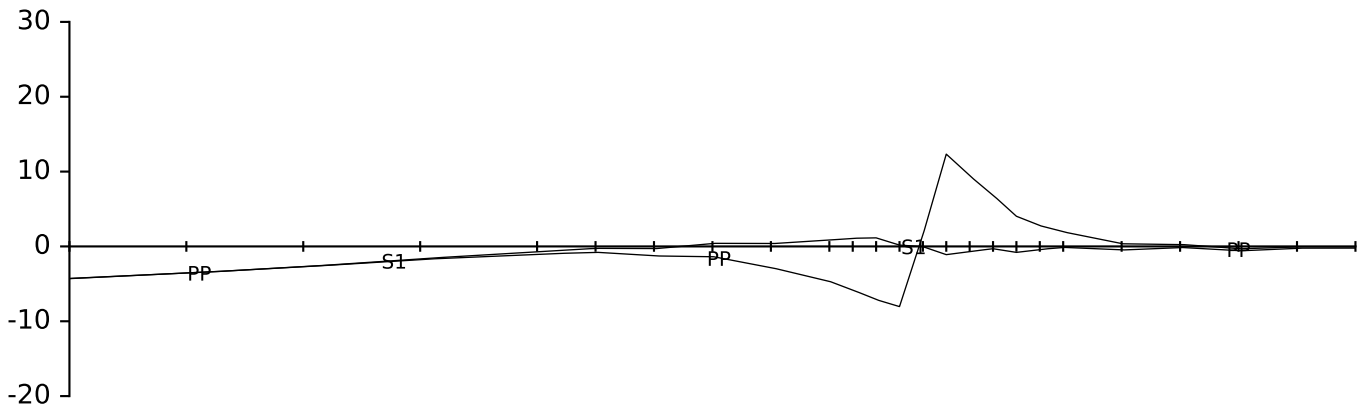
Hole: QTBL-0017  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

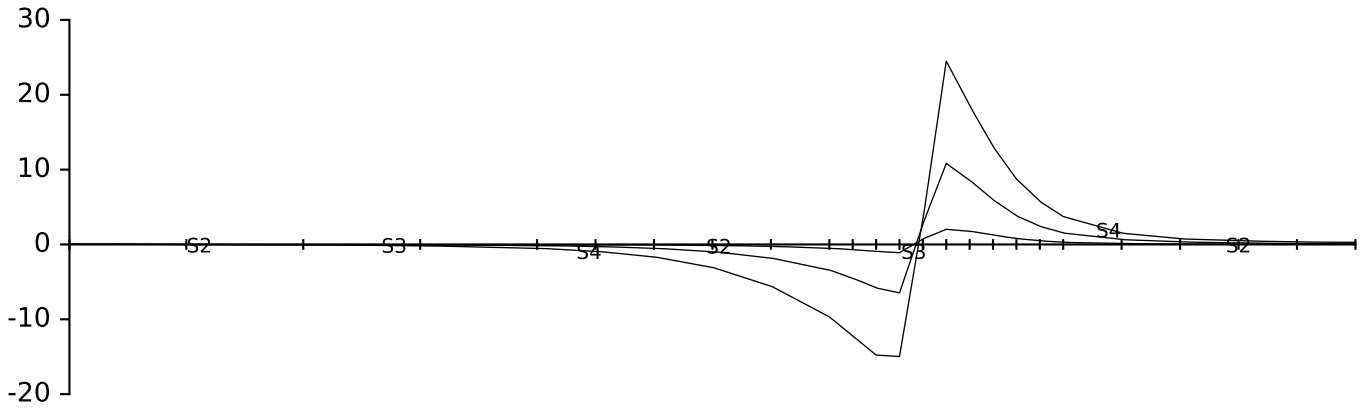
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



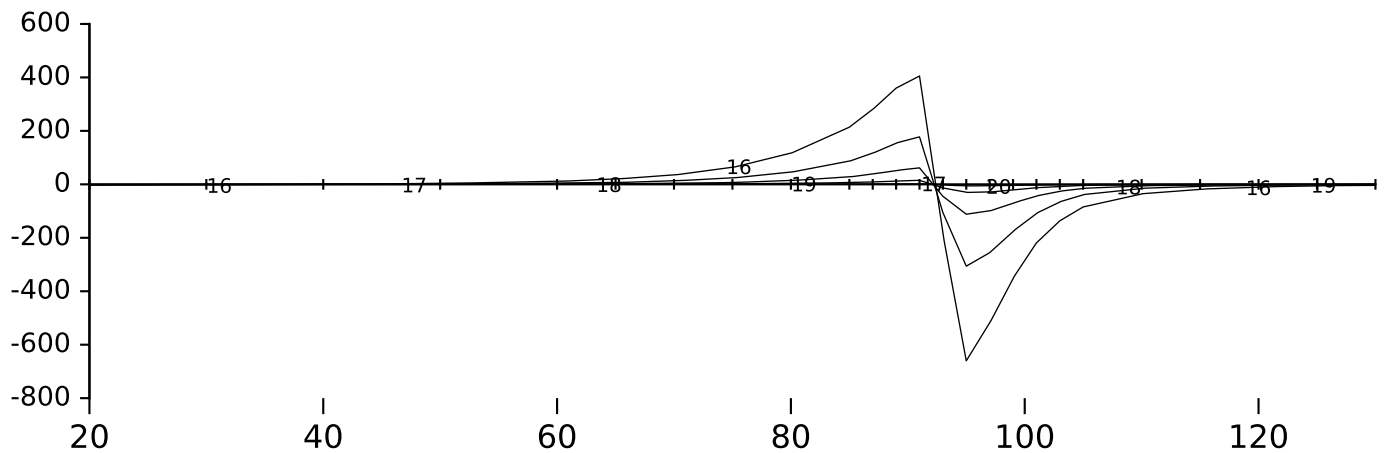
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)



666,600m E      666,700m E      666,800m E      666,900m E      667,000m E      667,100m E      667,200m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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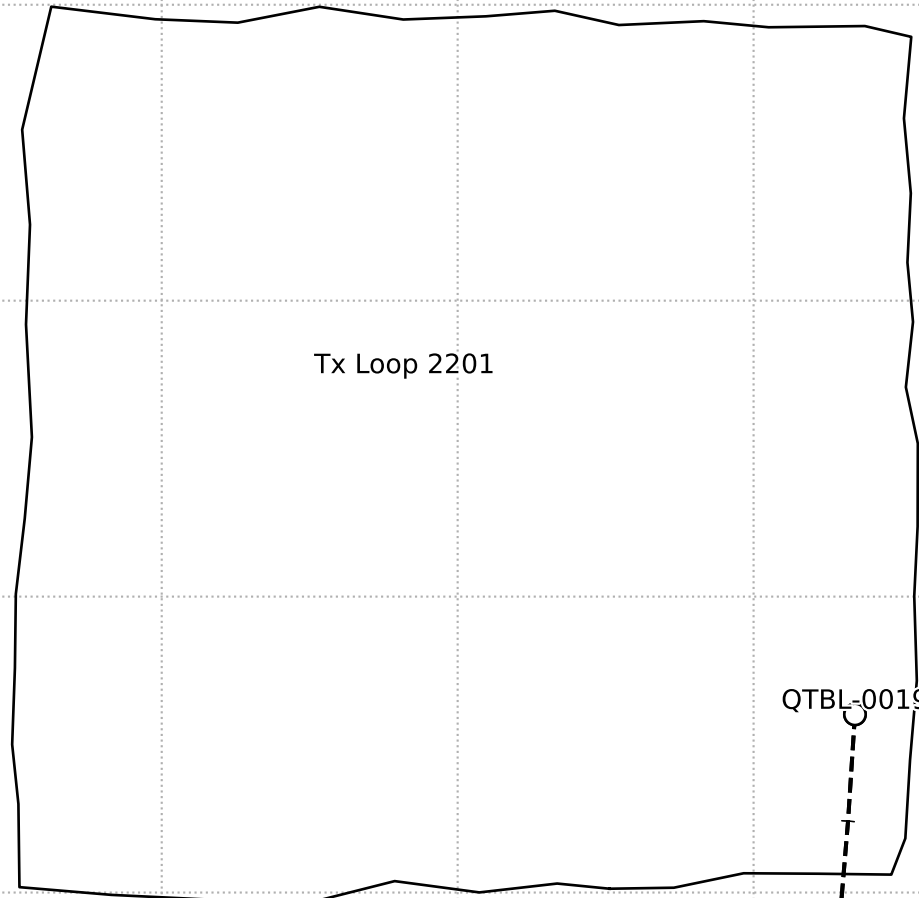
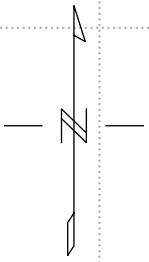
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0019    Loop: 2201

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Timebase: 16.66 ms  
 Survey Date: August 01 - August 04, 2022

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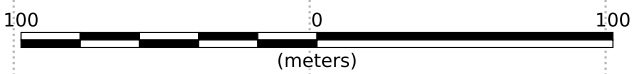
*NAD83 / UTM zone 15N*      *Scale 1:2,500*



Tx Loop 2201

QTBL-0019

130 m



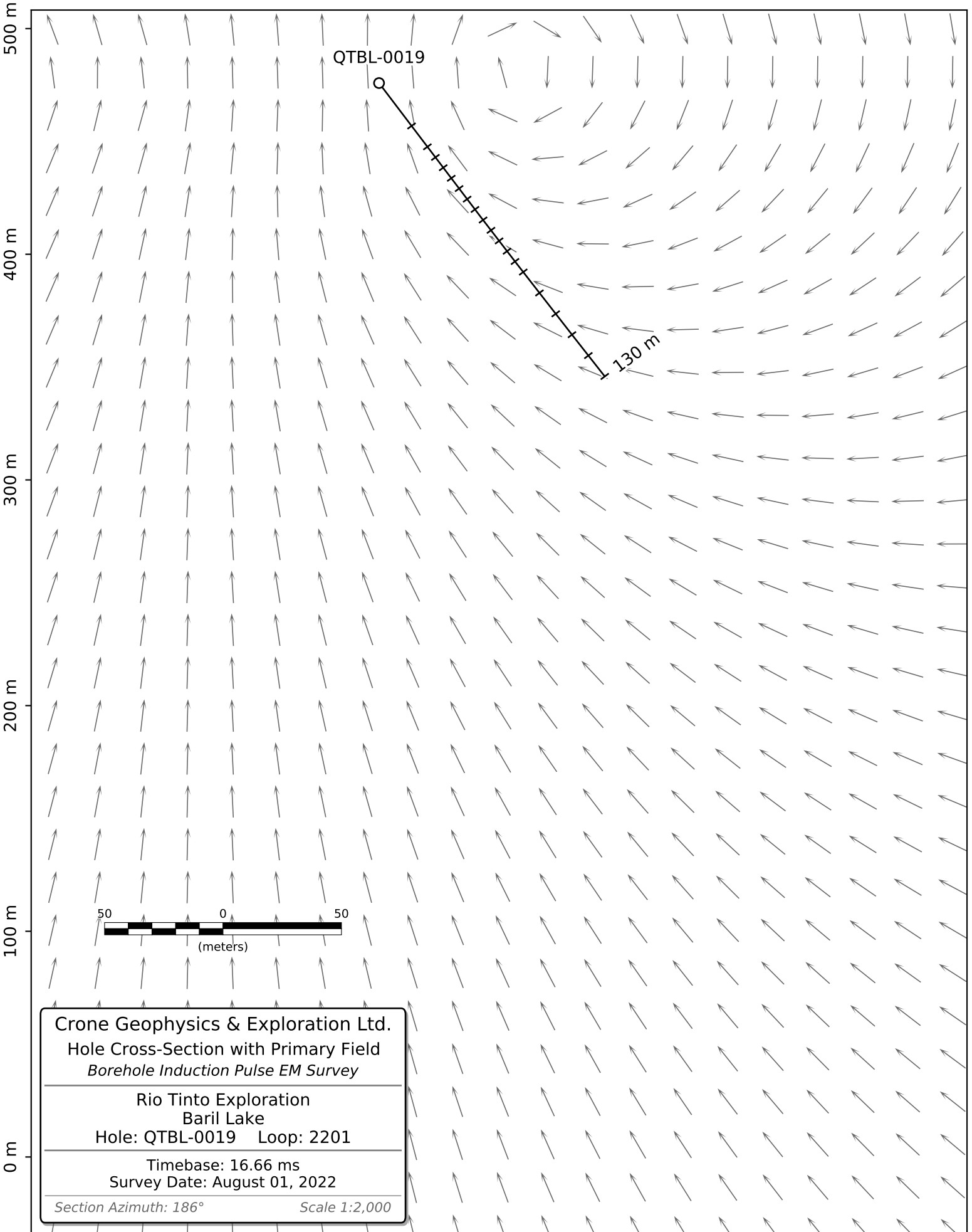
**Legend**

— Transmitter Loop

-+- Borehole Trace

667,050m E  
5,401,606m N

667,011m E  
5,401,213m N

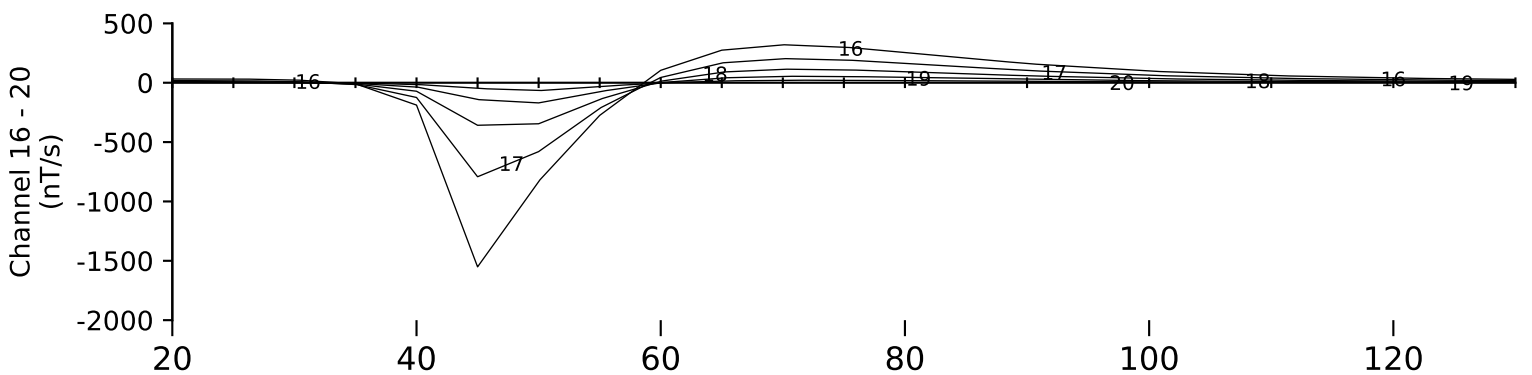
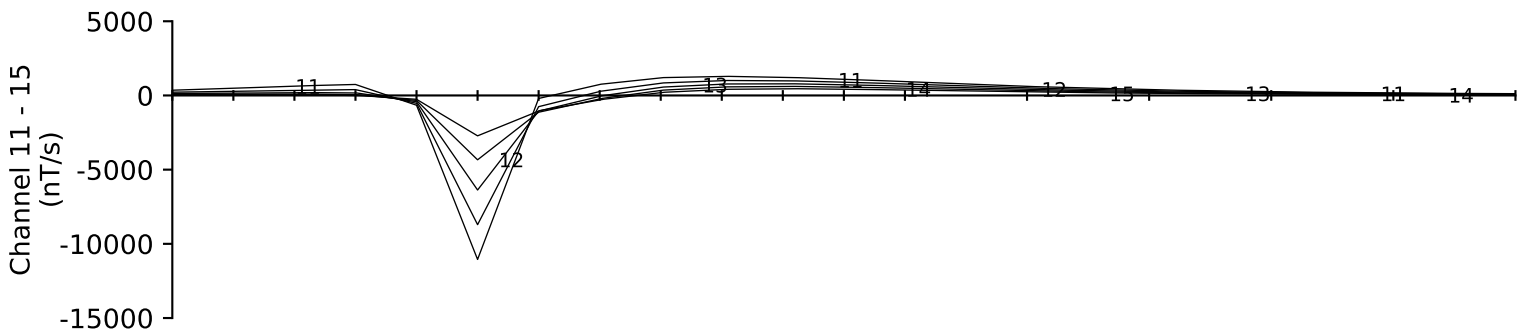
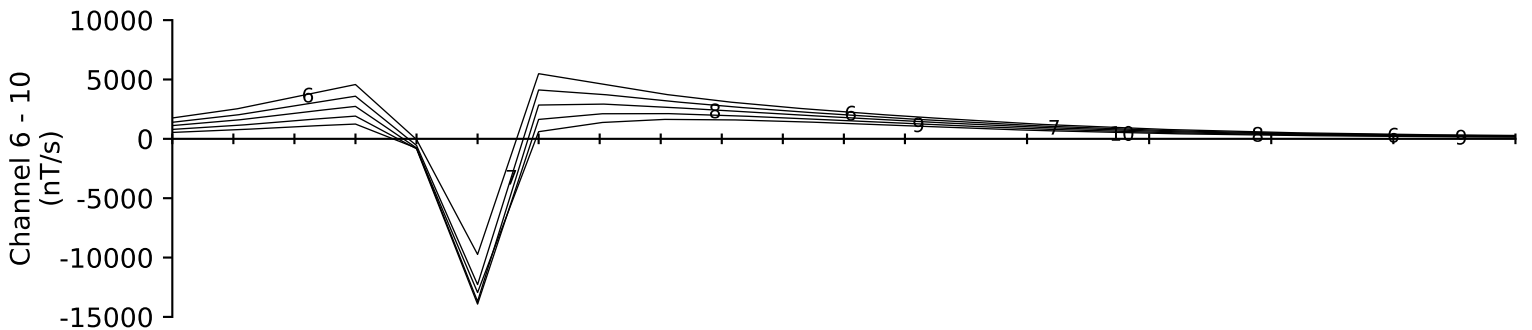
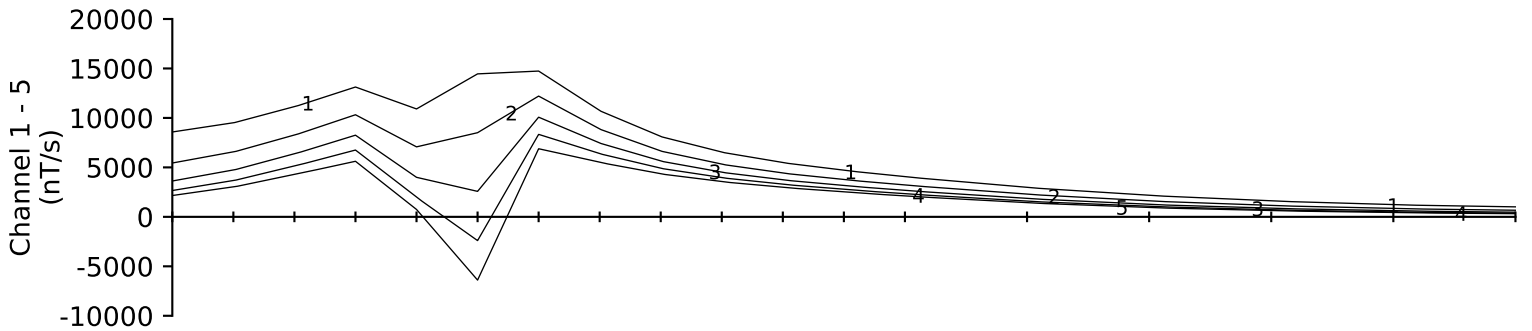
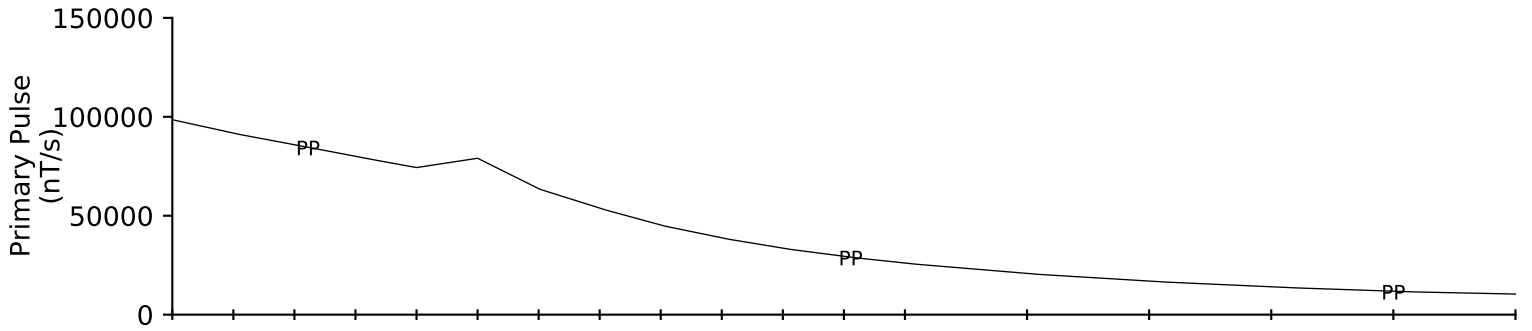


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 1, 2022

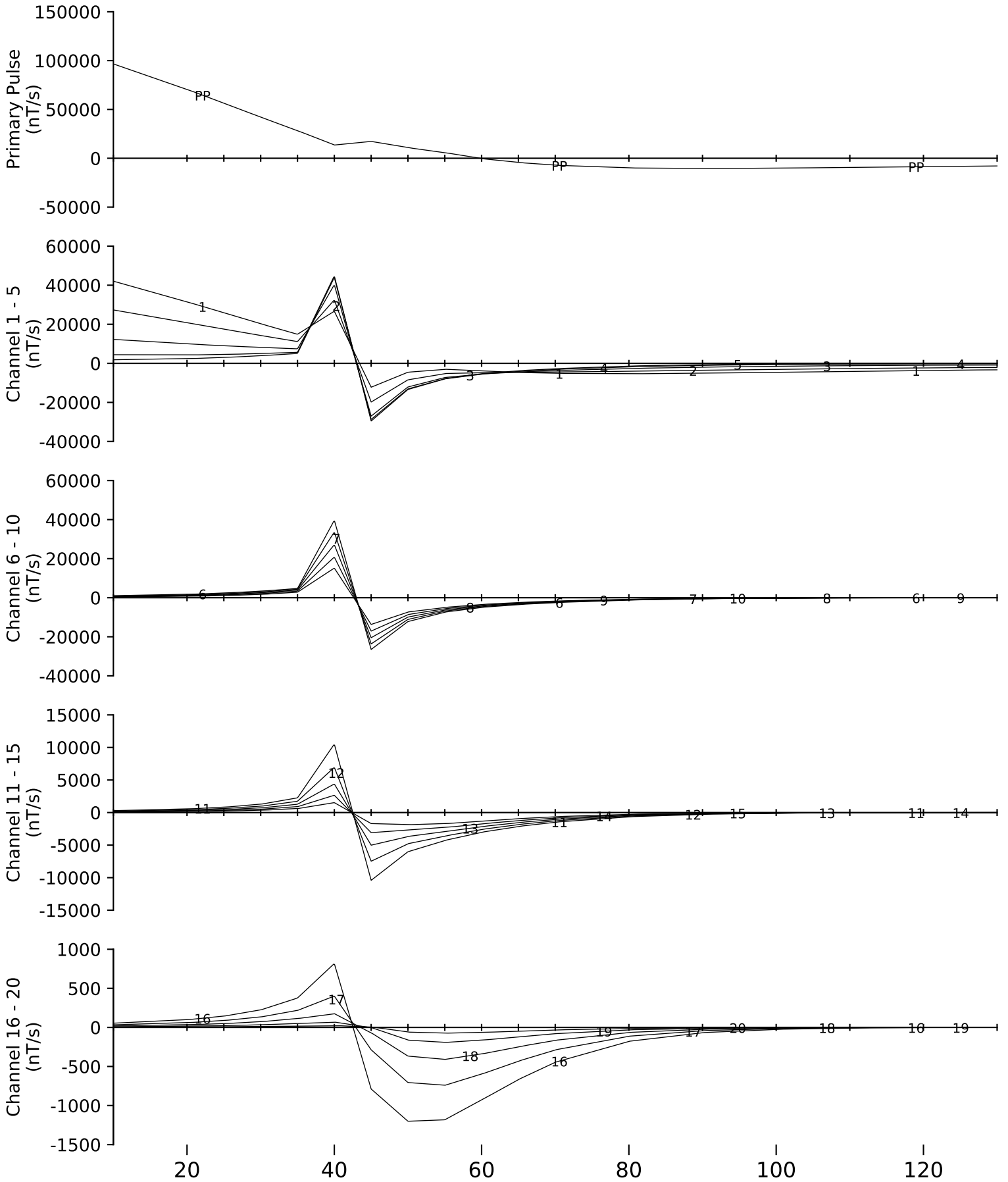


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022



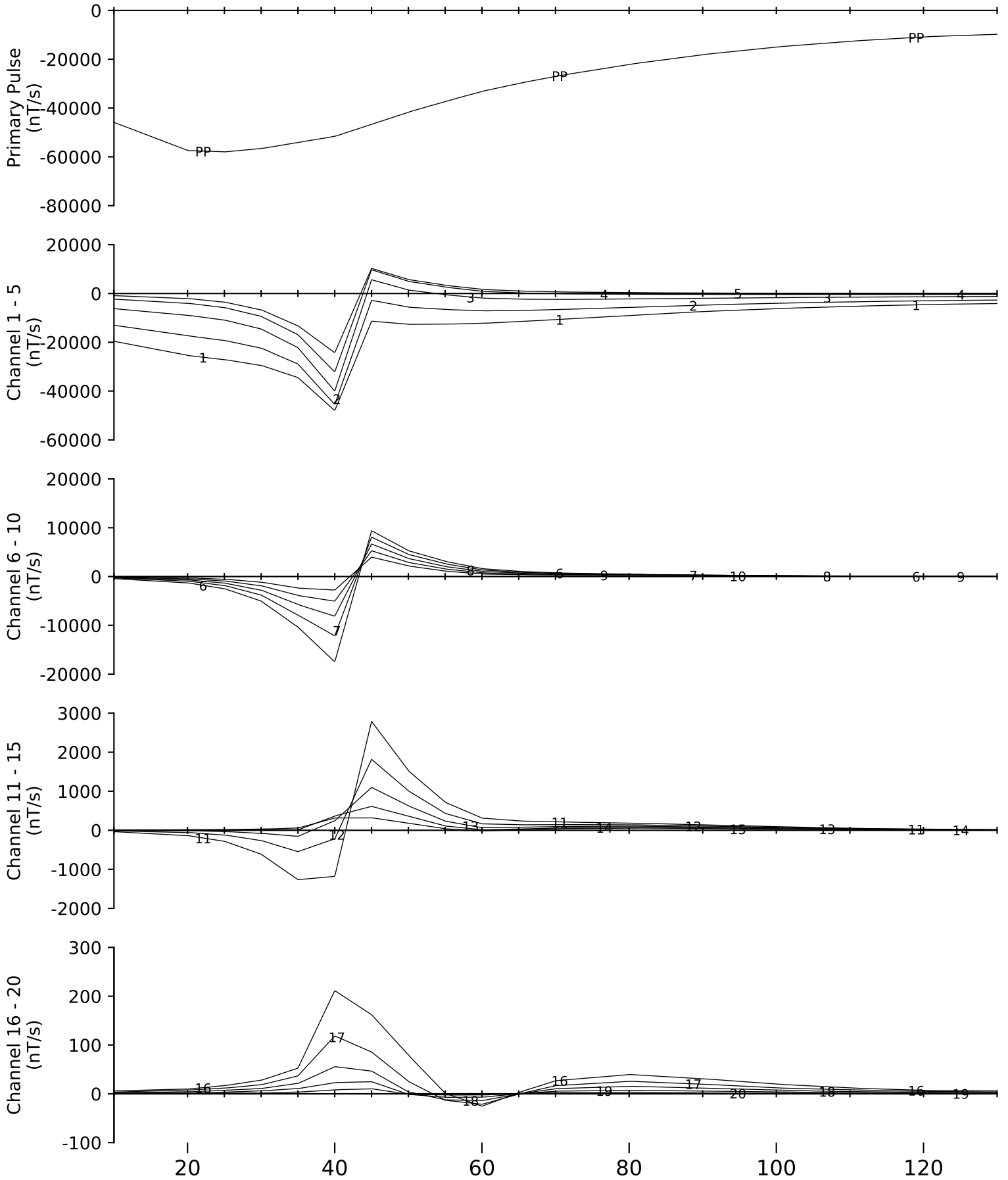


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

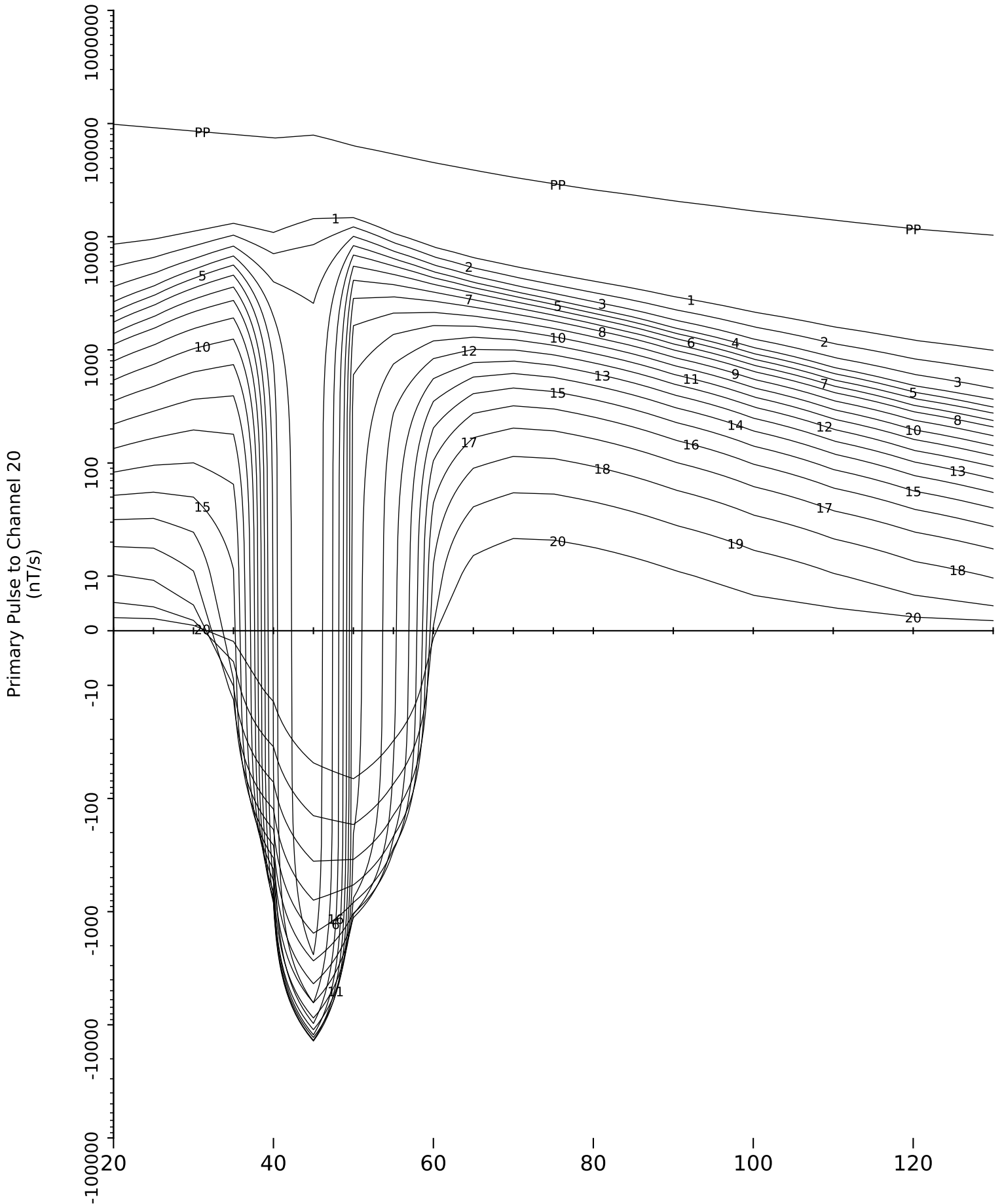


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 1, 2022

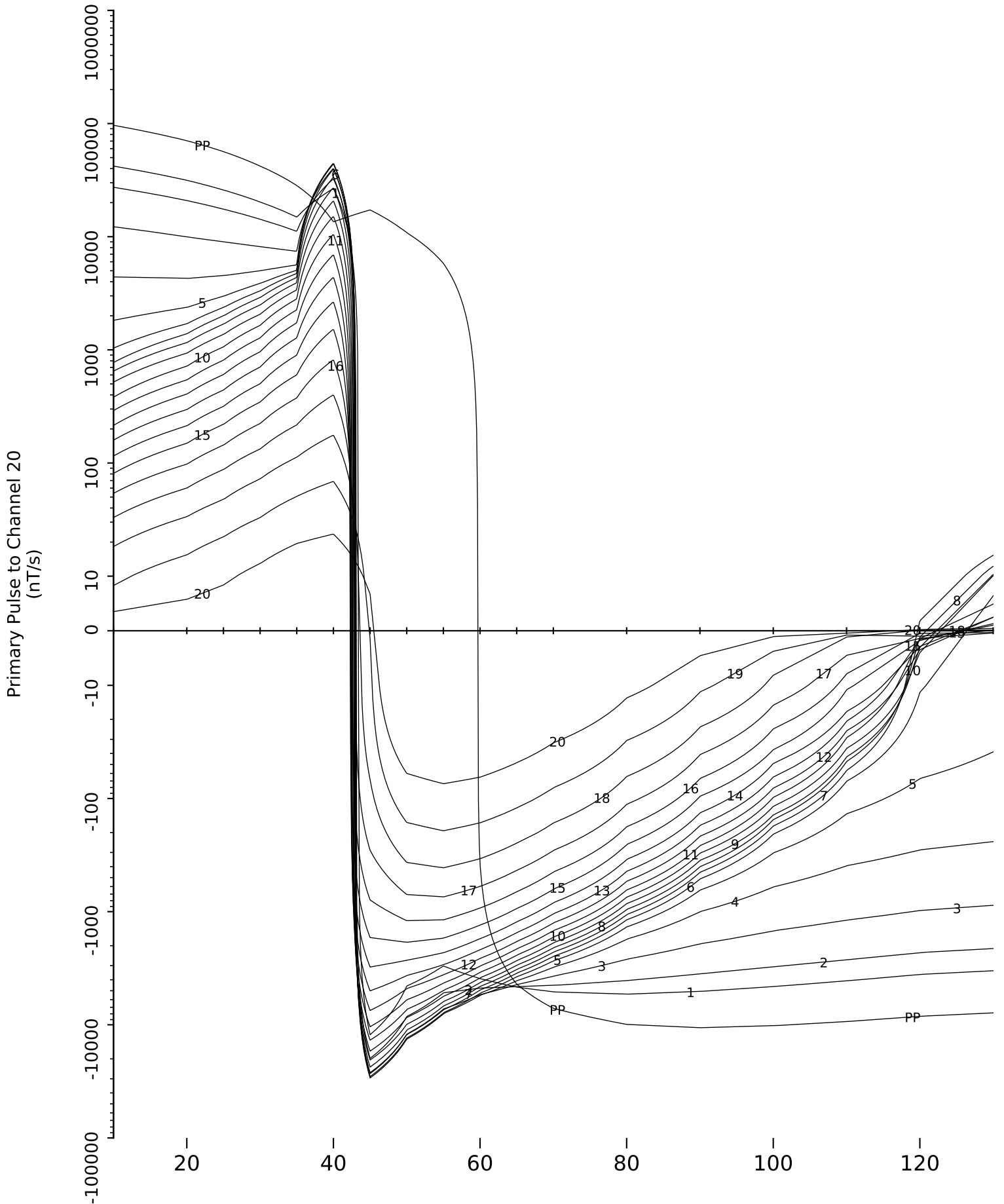


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

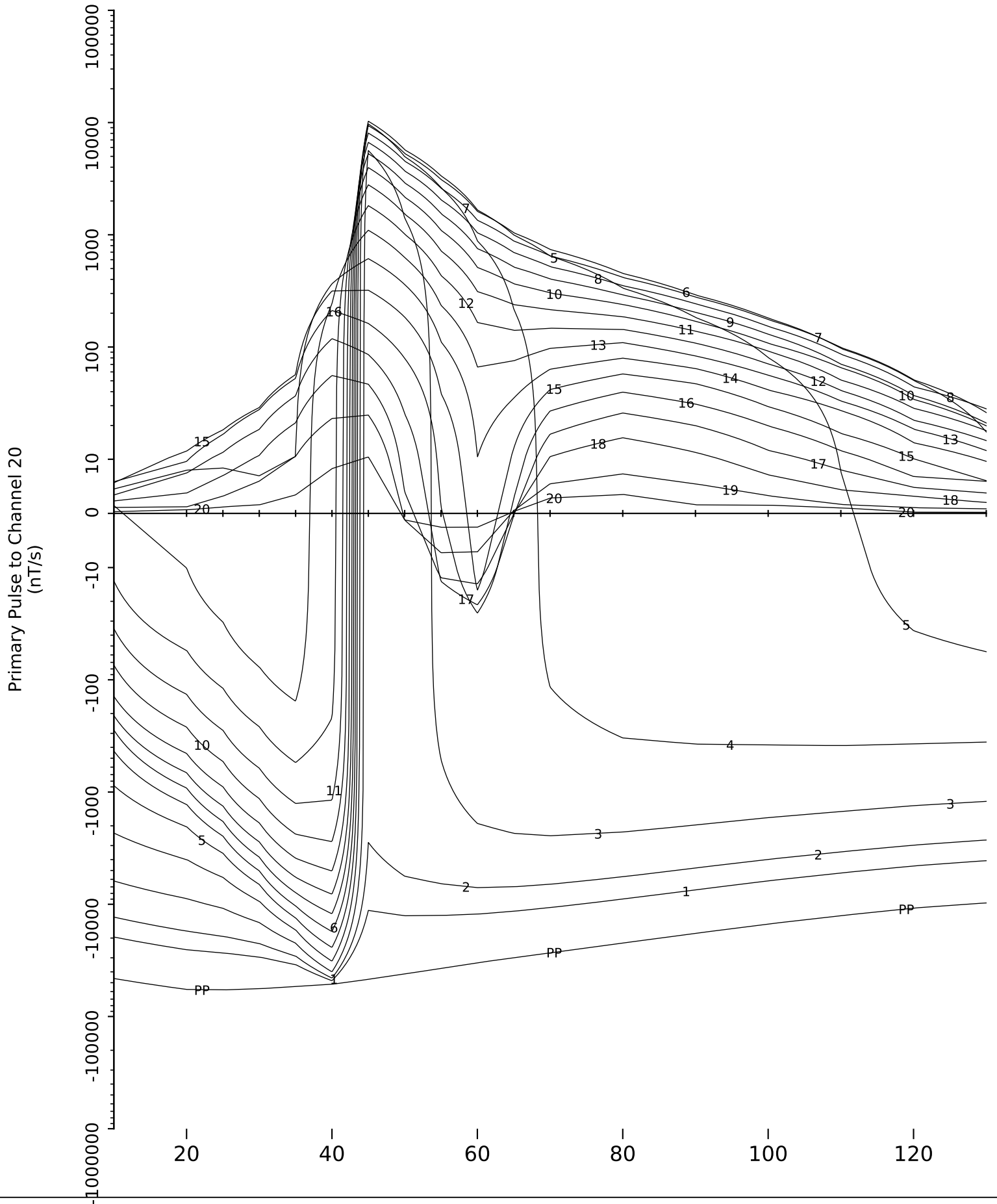


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

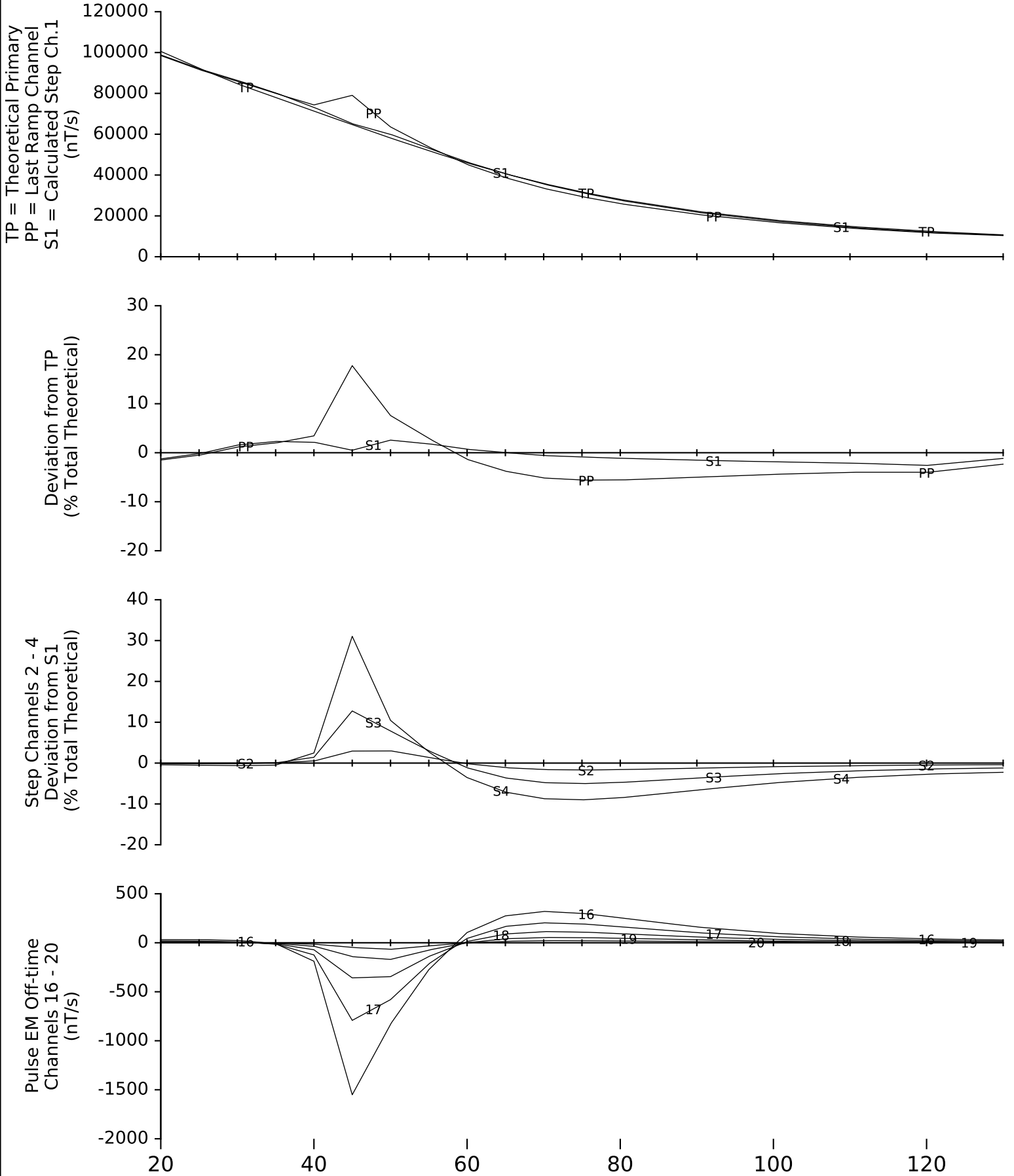


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 1, 2022

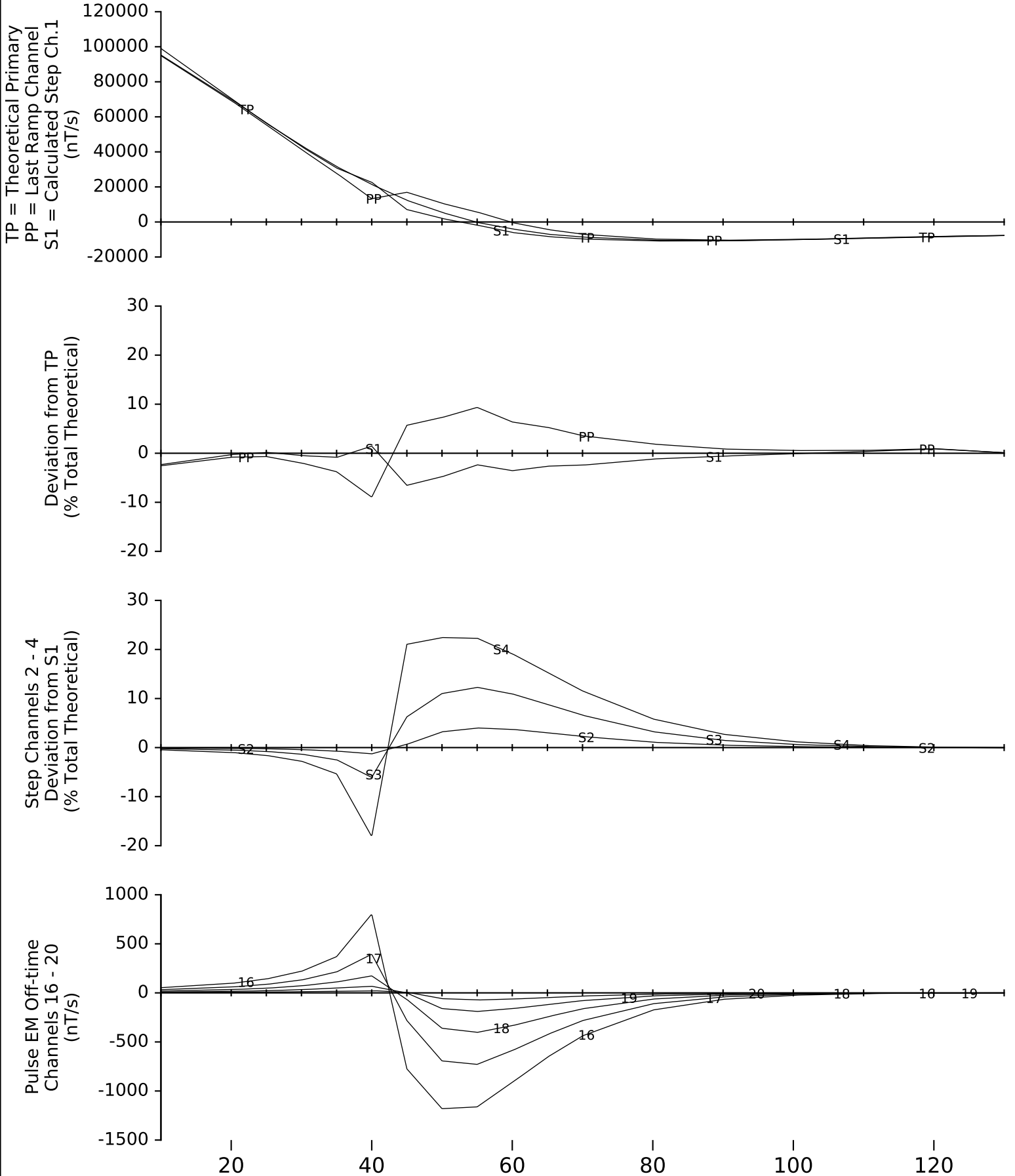


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022

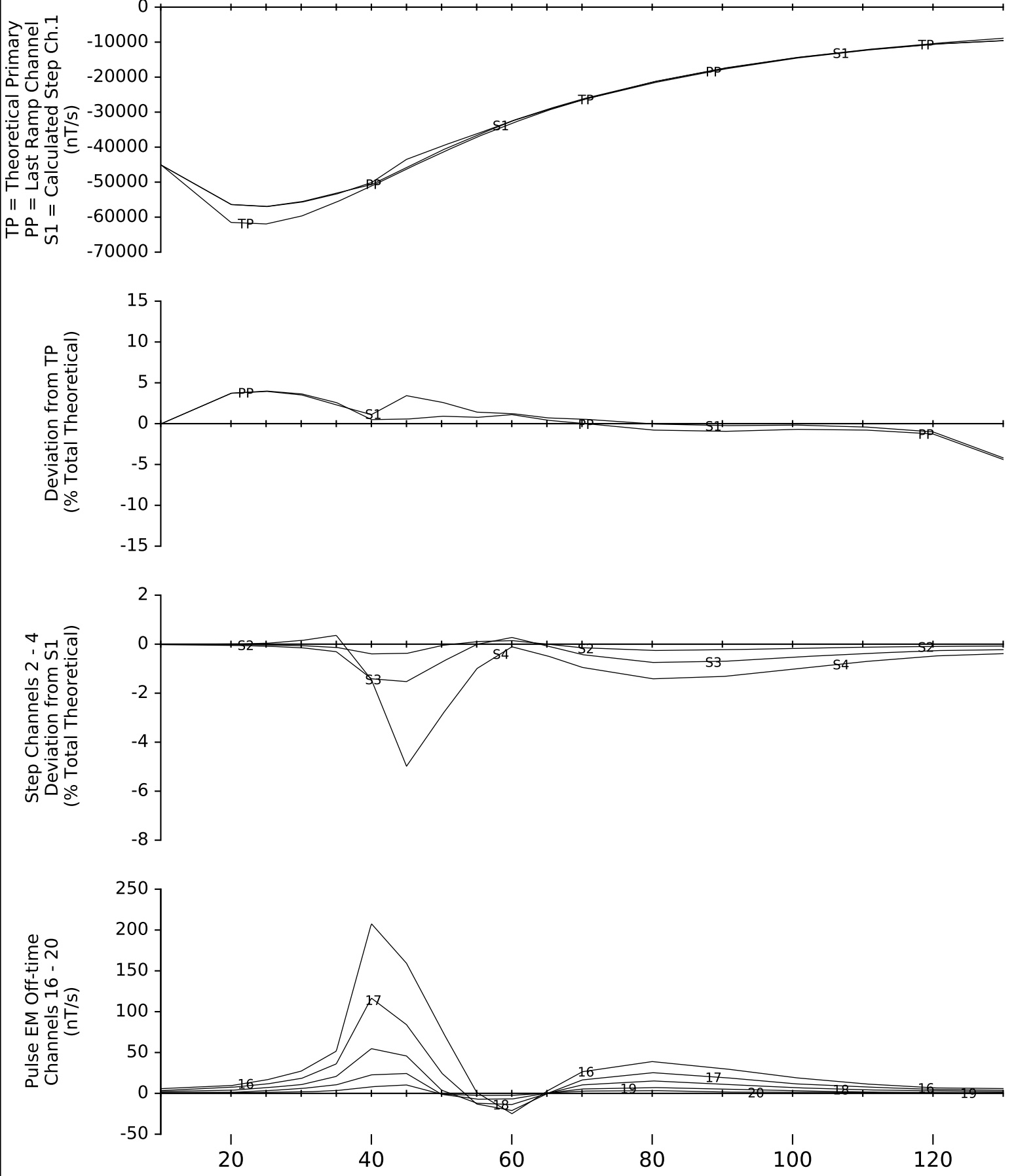


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0019  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 4, 2022



666,600m E      666,700m E      666,800m E      666,900m E      667,000m E      667,100m E      667,200m E

5,401,800m N  
5,401,700m N  
5,401,600m N  
5,401,500m N  
5,401,400m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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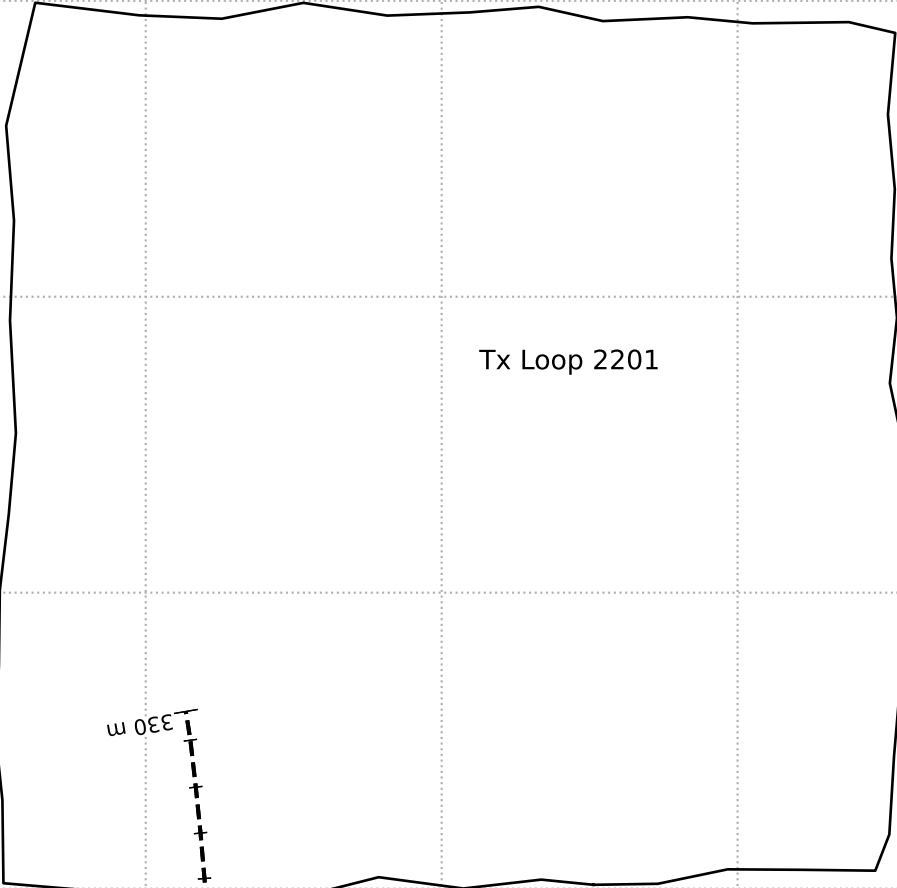
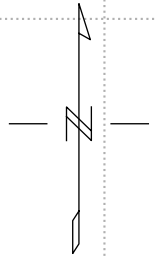
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0020    Loop: 2201

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Timebase: 16.66 ms  
 Survey Date: August 06, 2022

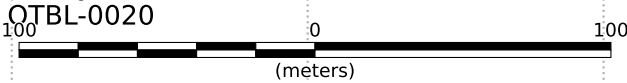
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*NAD83 / UTM zone 15N*      *Scale 1:2,500*



Tx Loop 2201

330 m

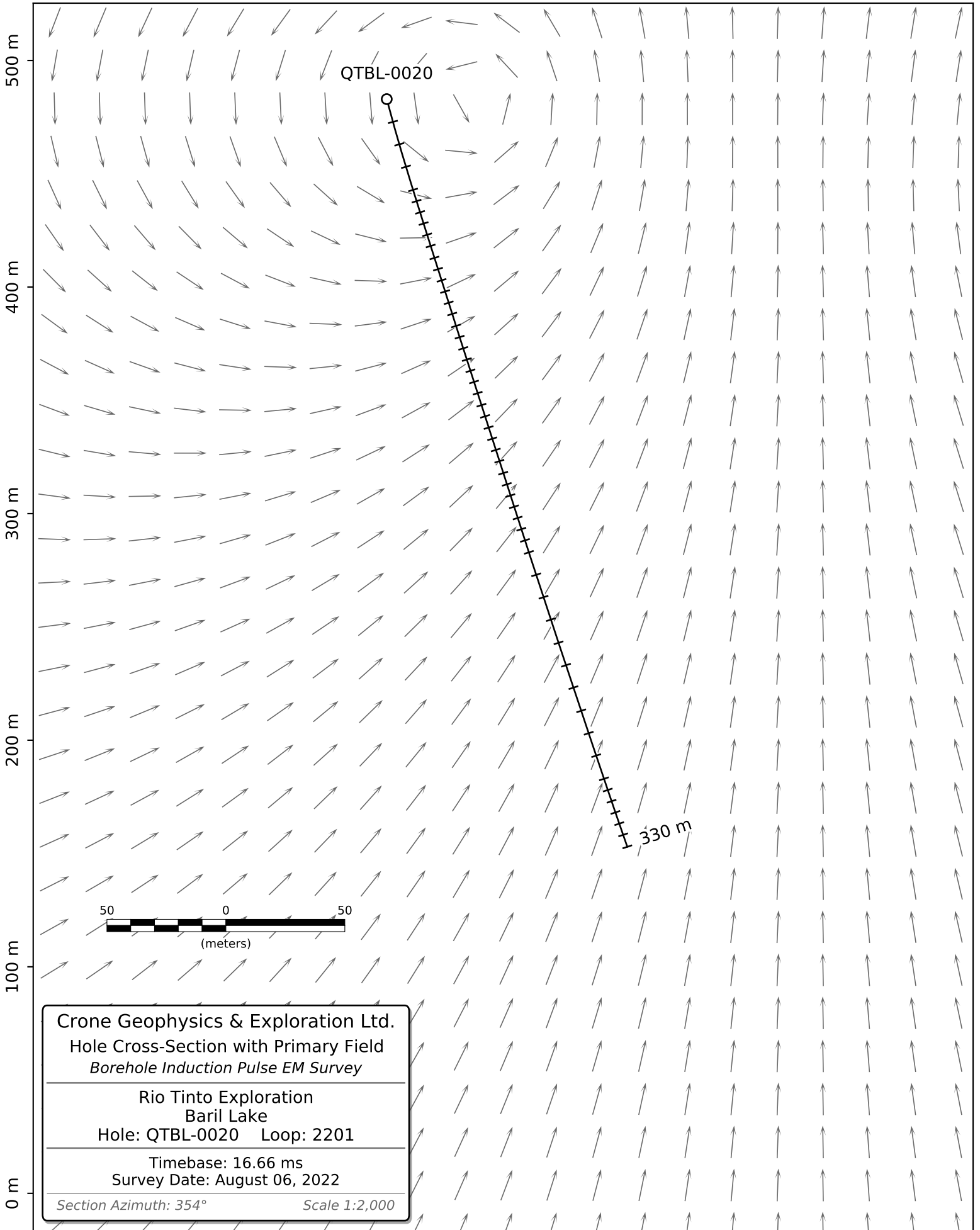


QTBL-0020

Legend

- Transmitter Loop
- +- Borehole Trace



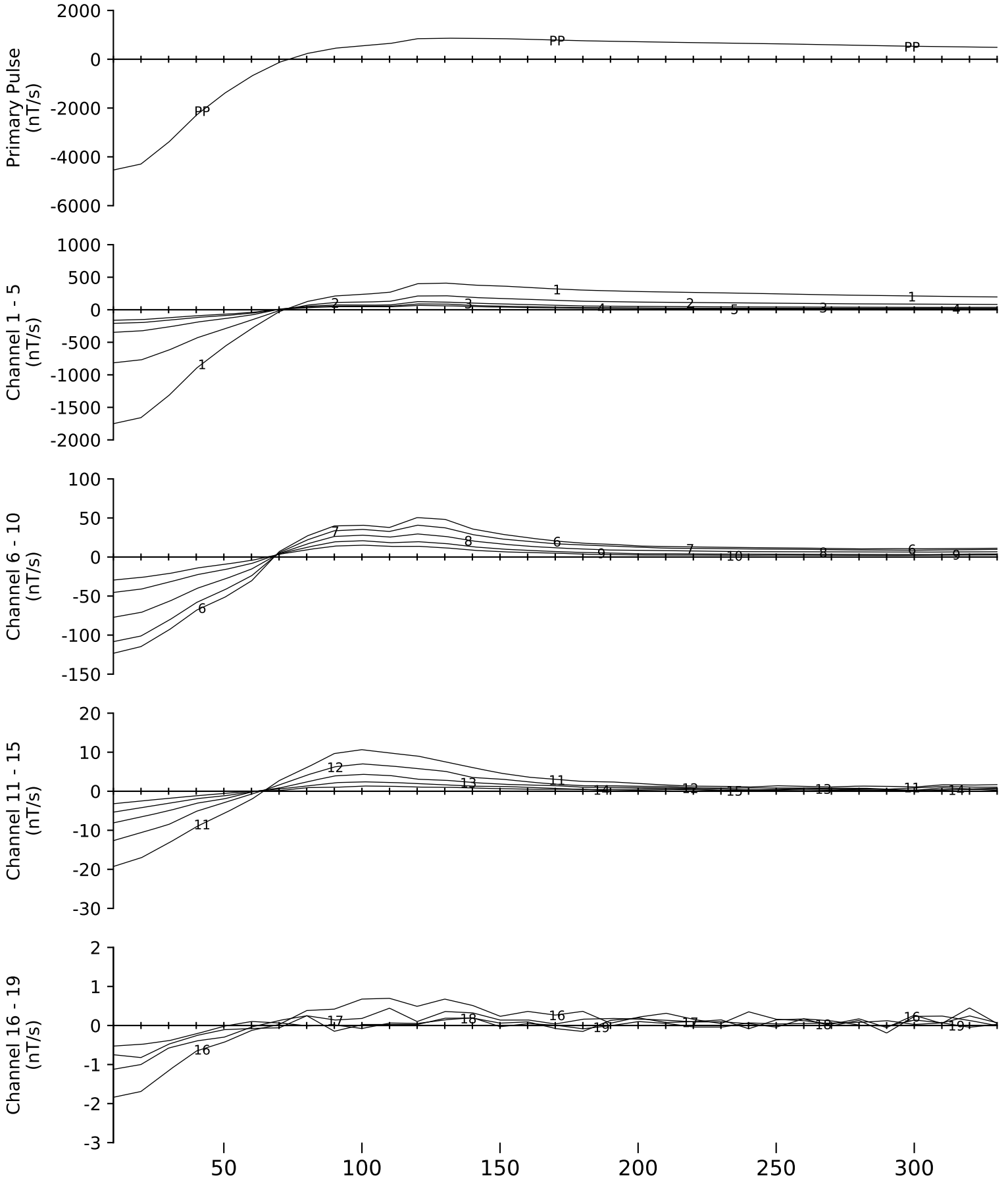


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

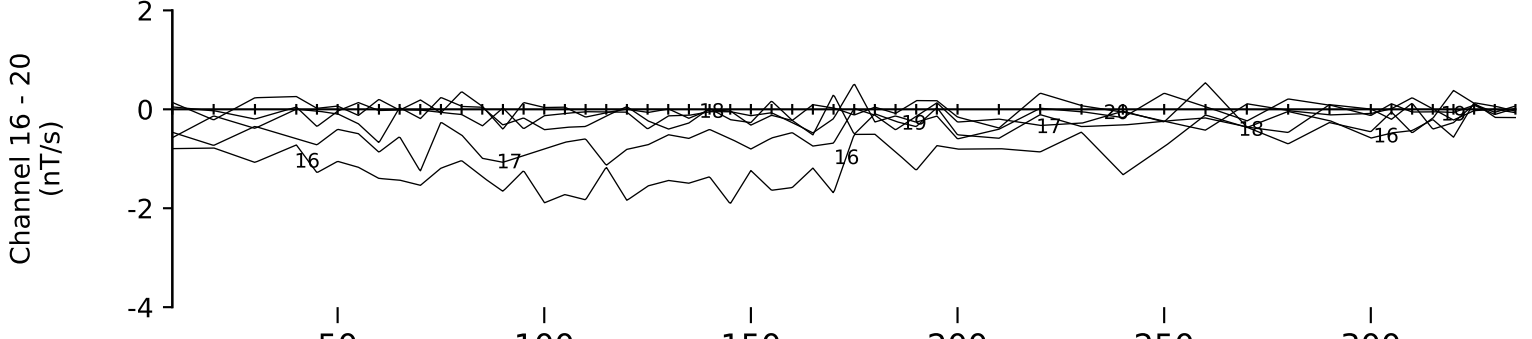
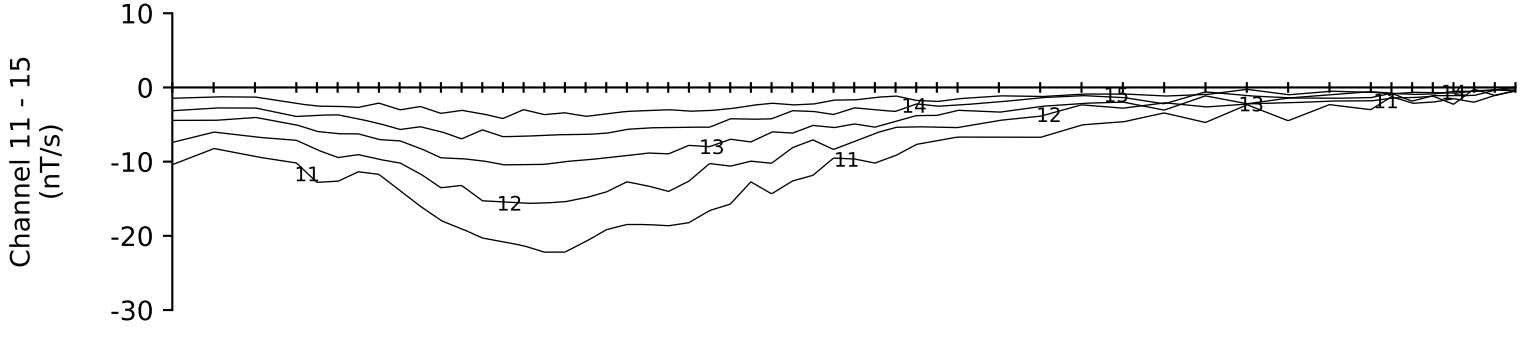
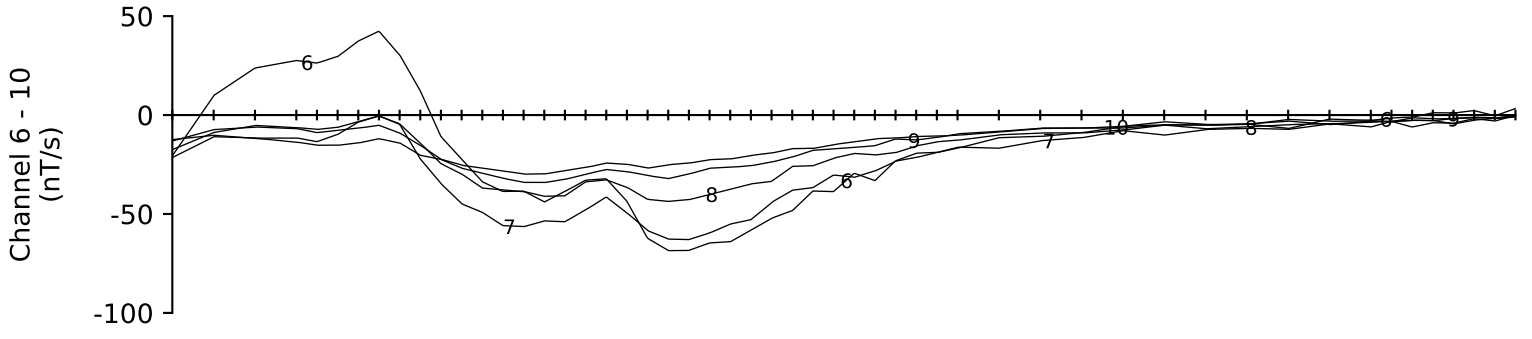
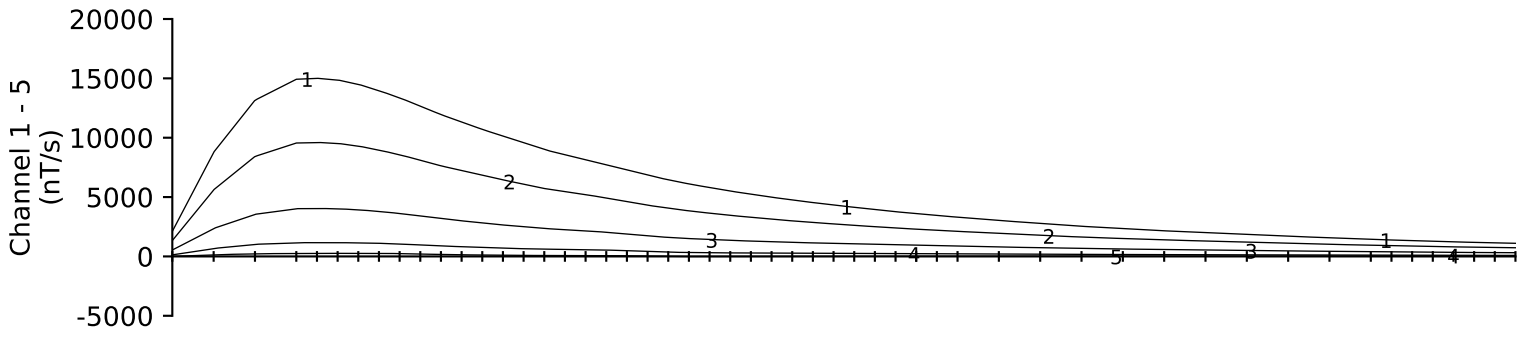
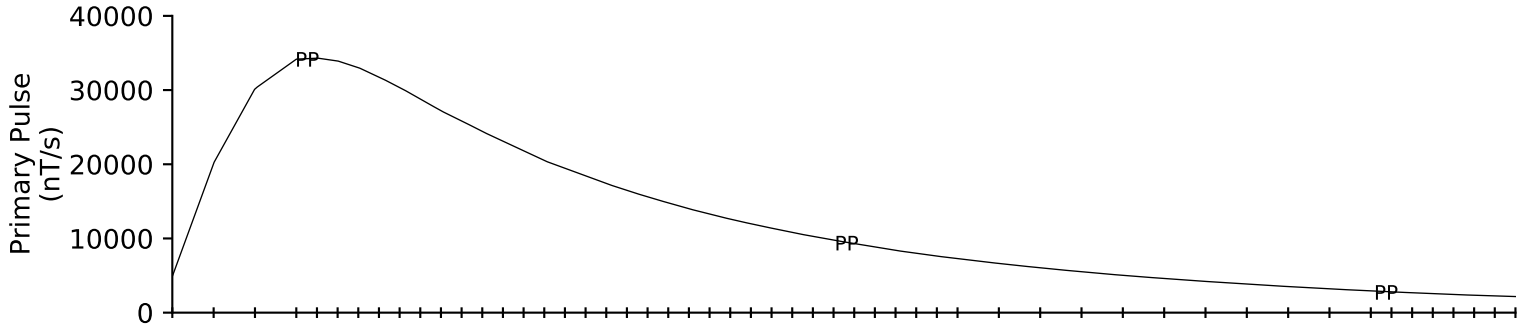


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

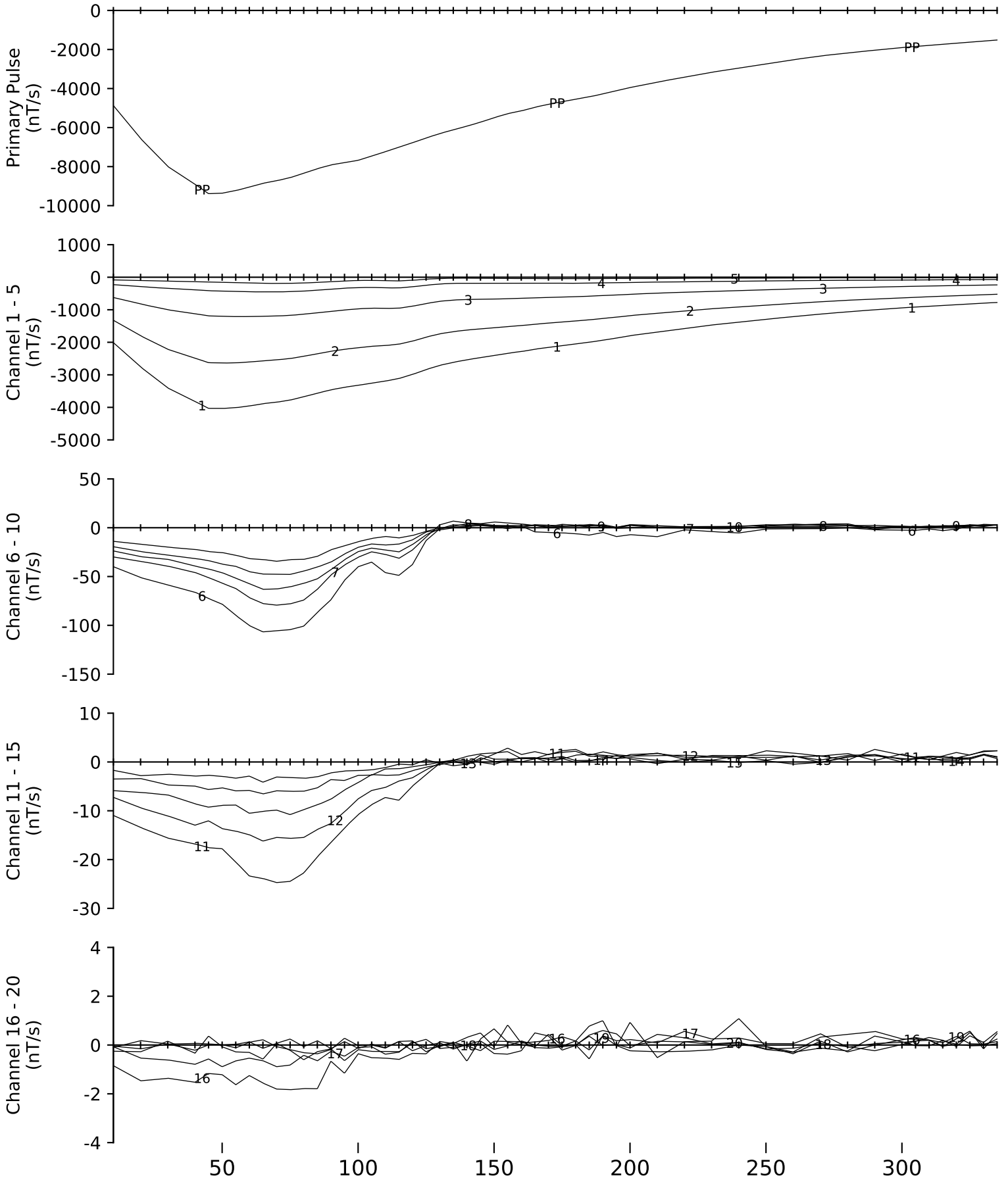


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

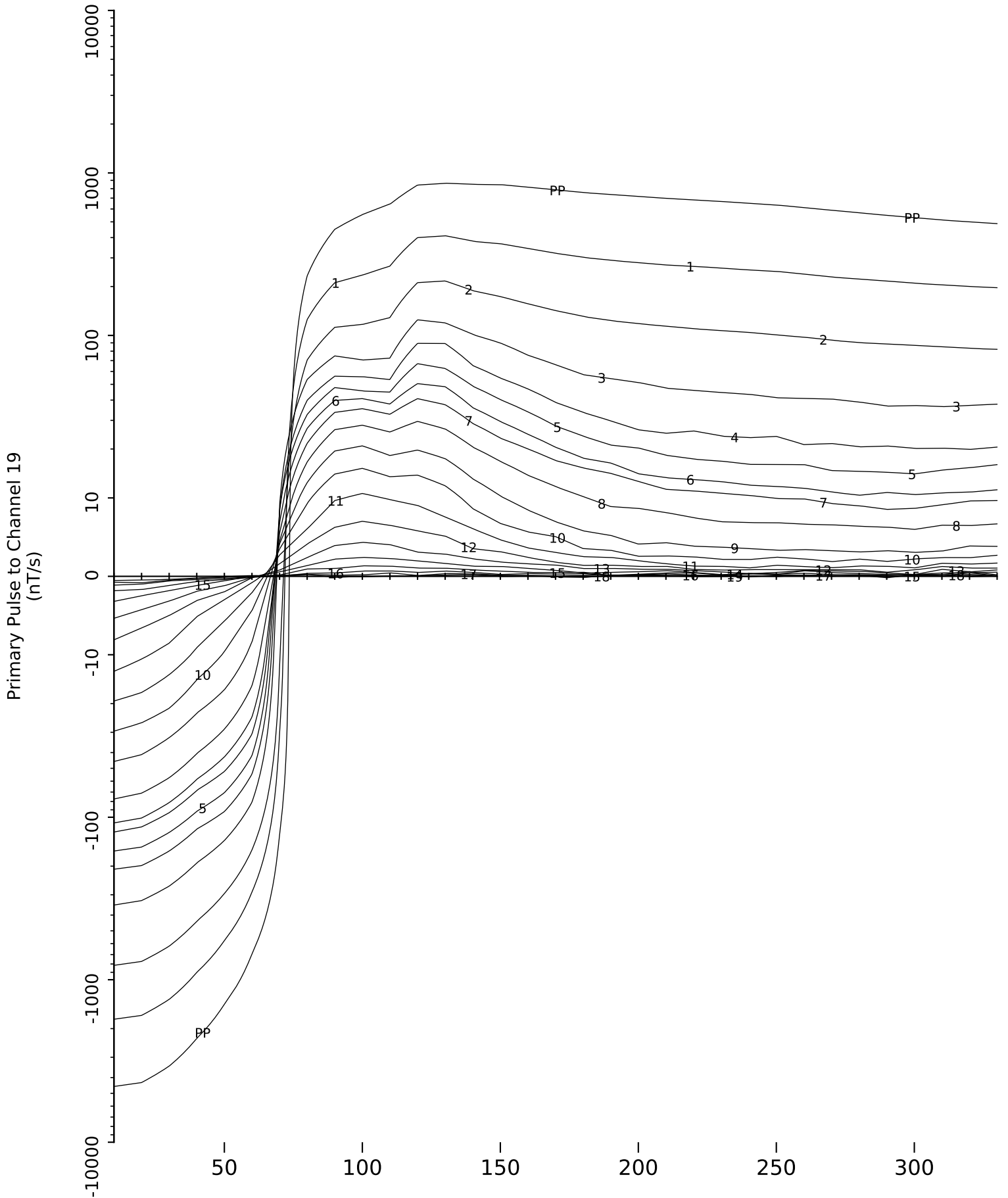


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

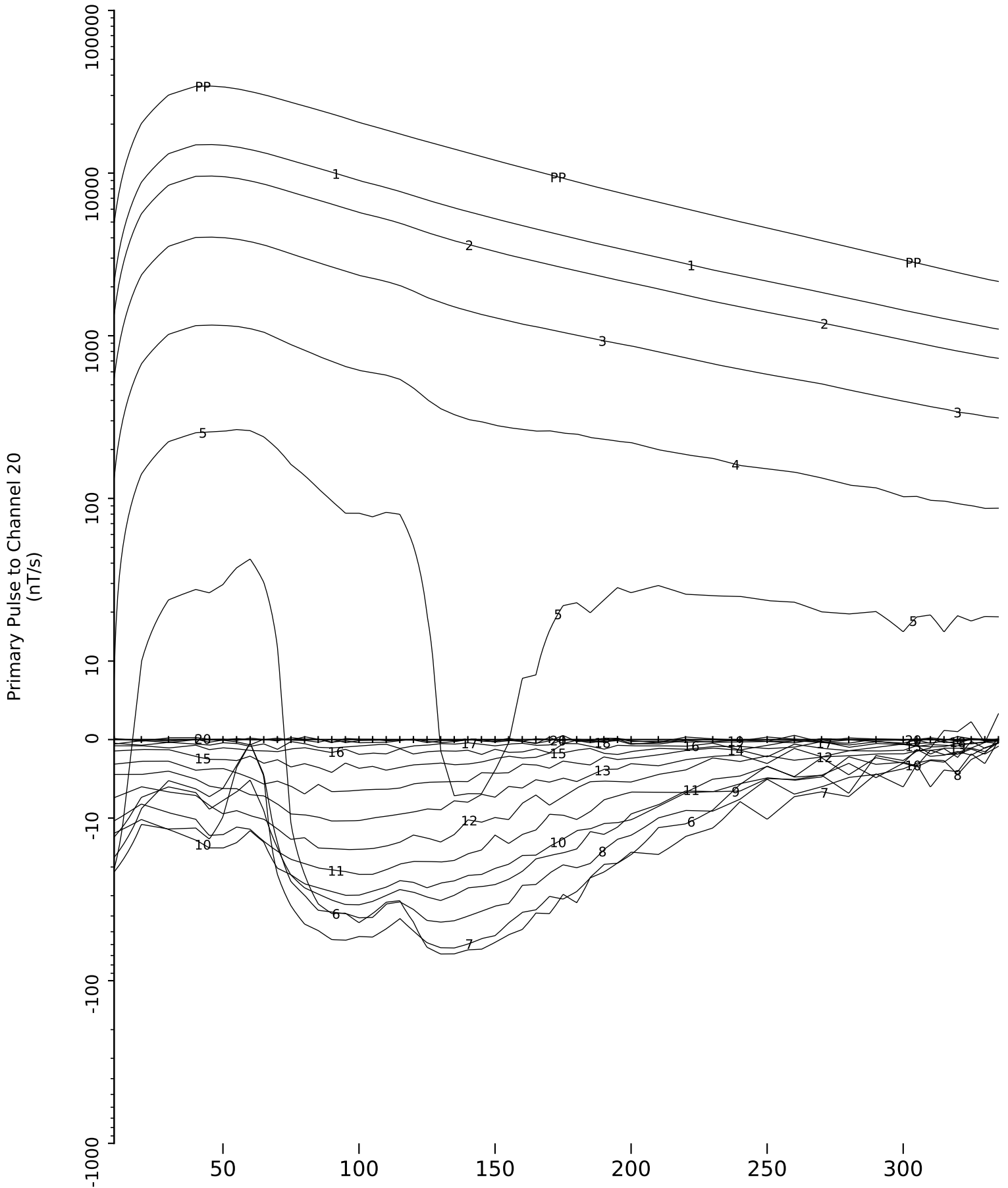


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

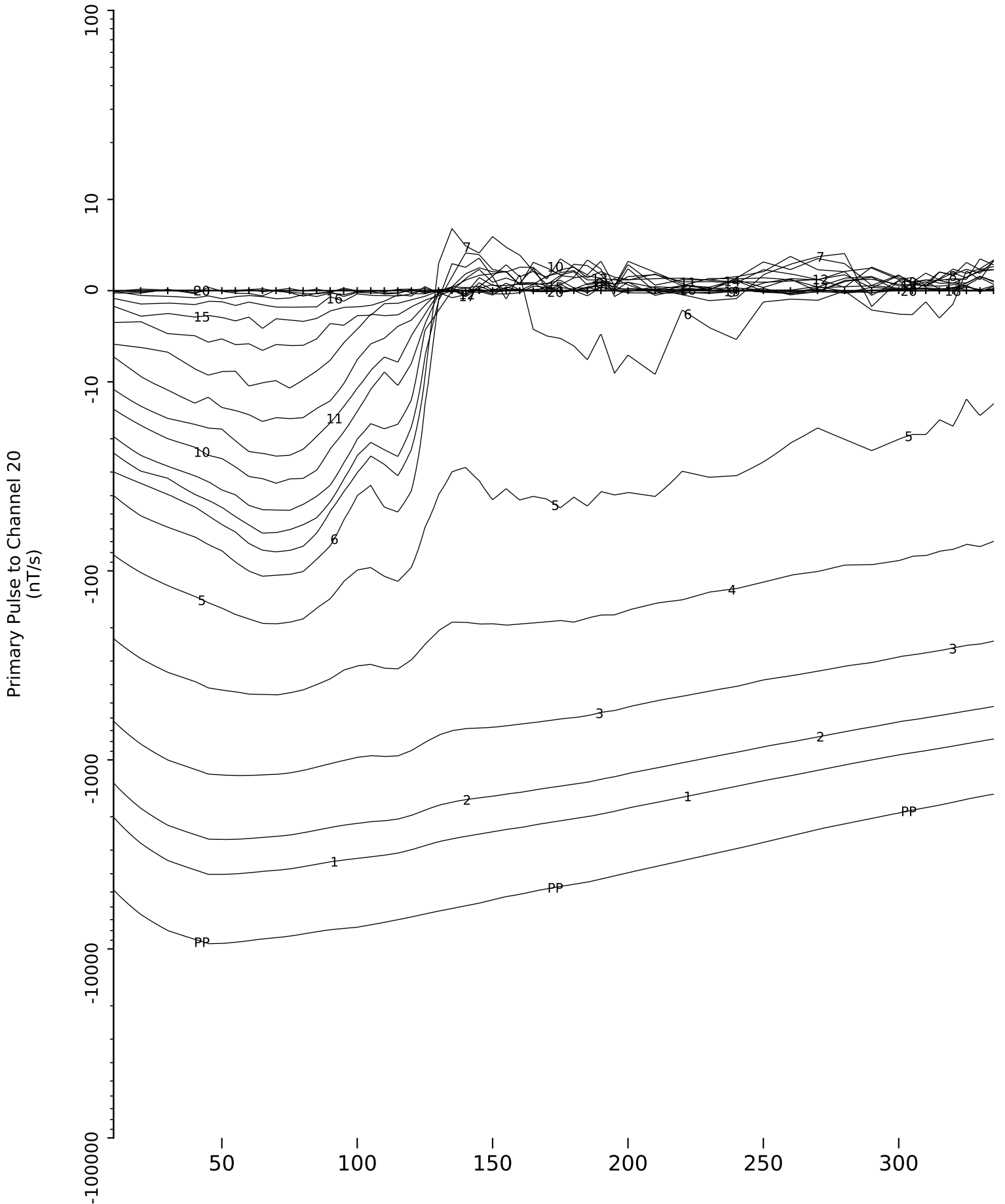


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

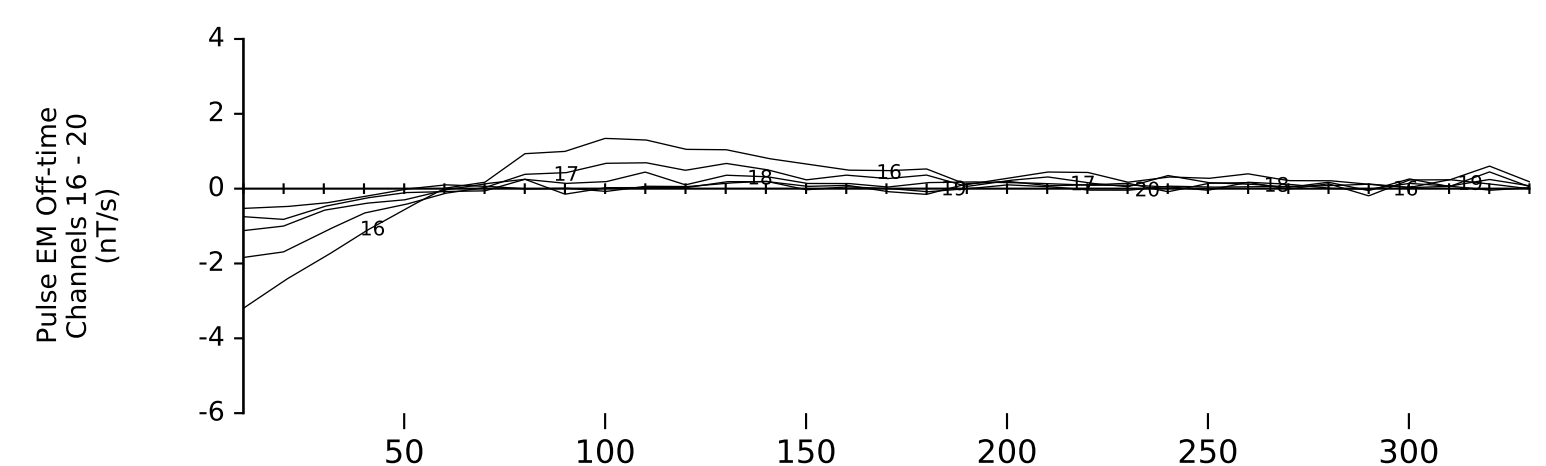
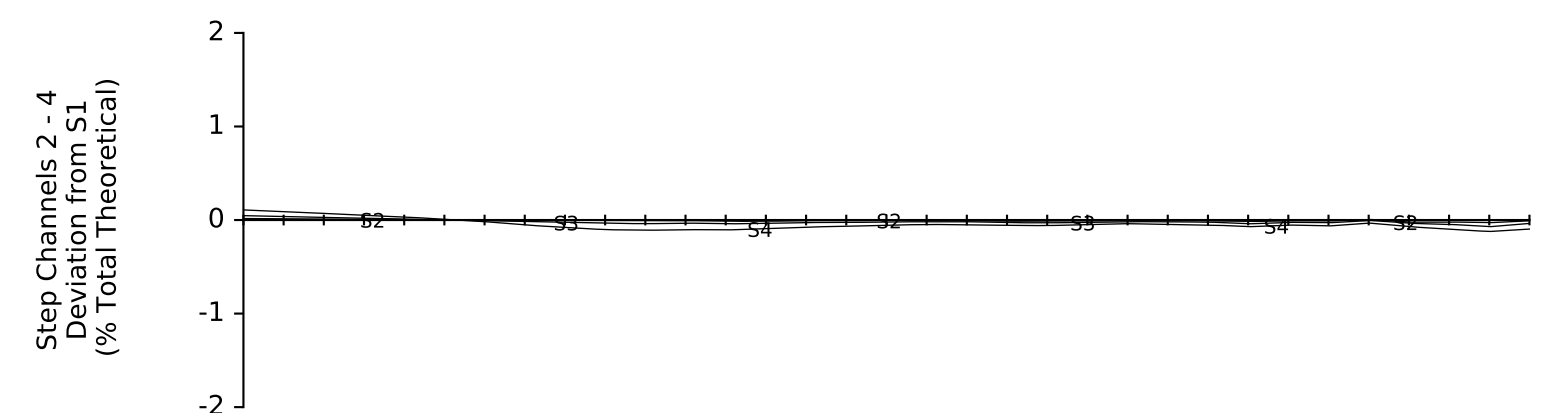
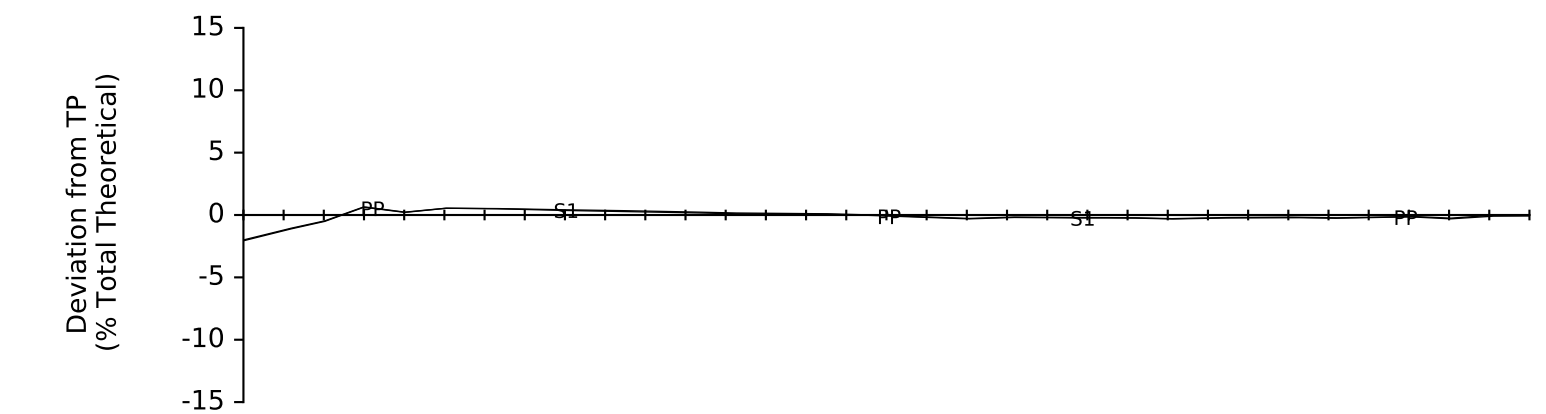
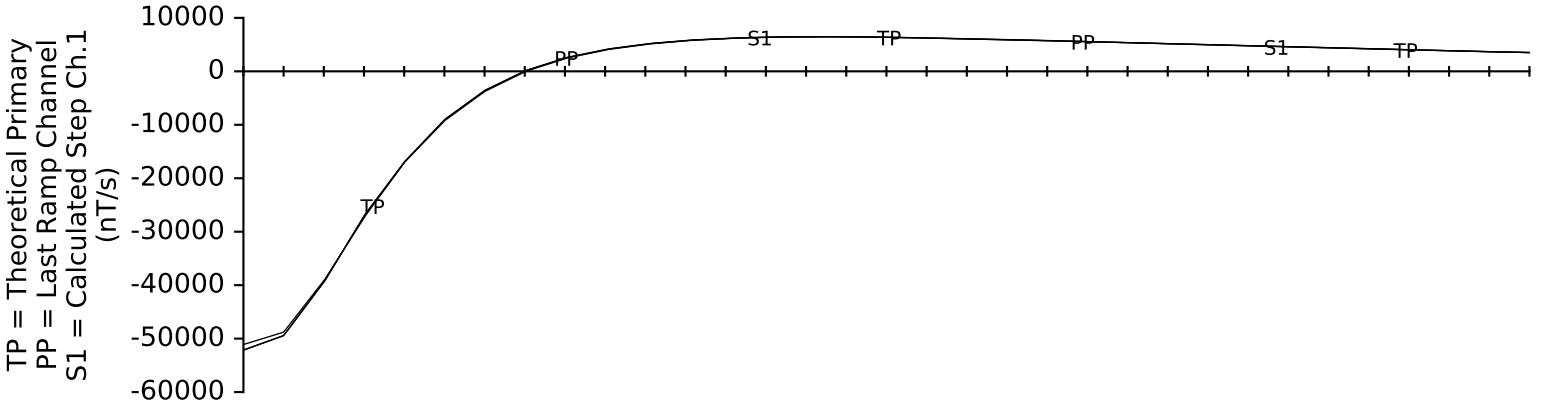


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022



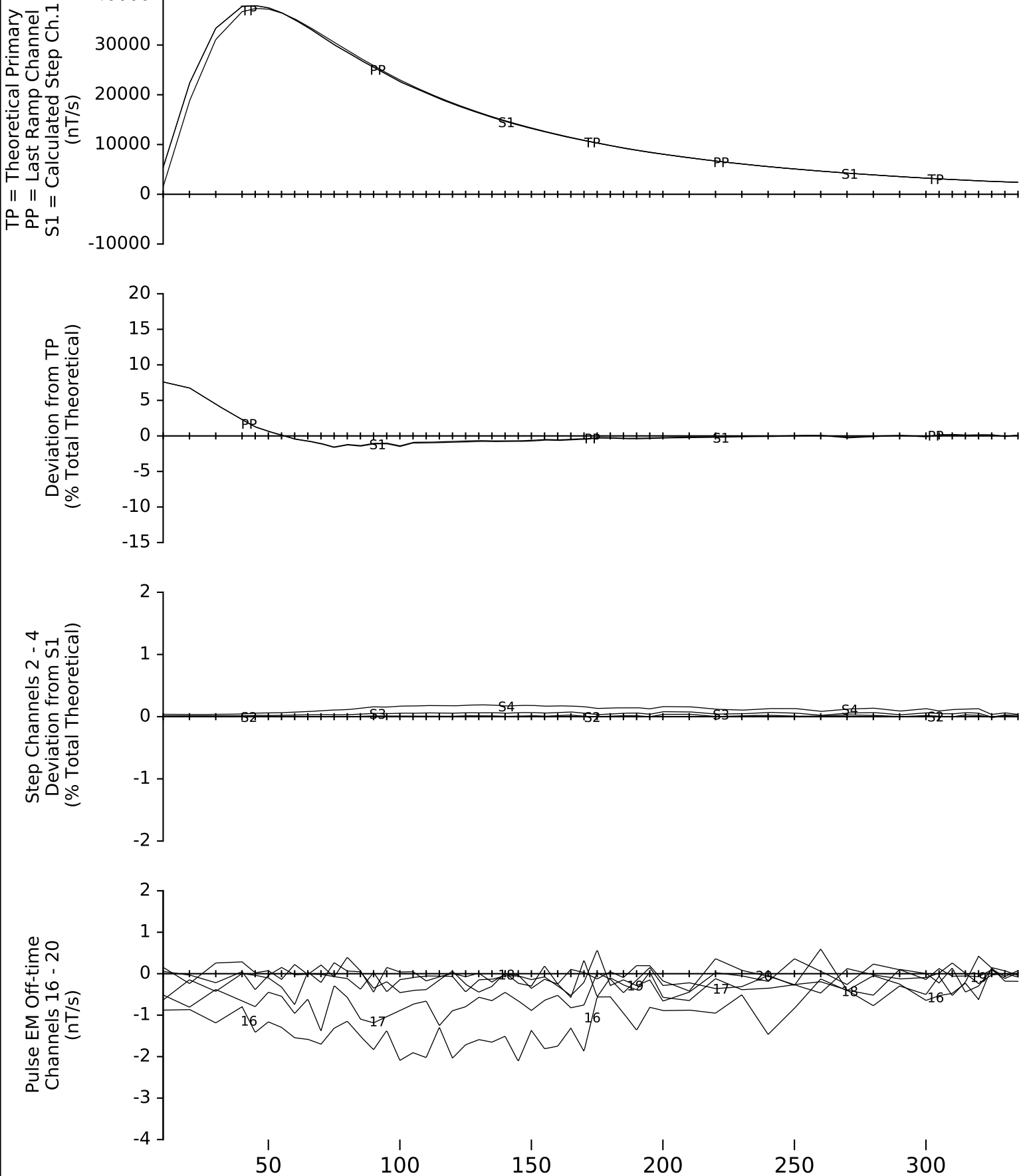


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0020  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022



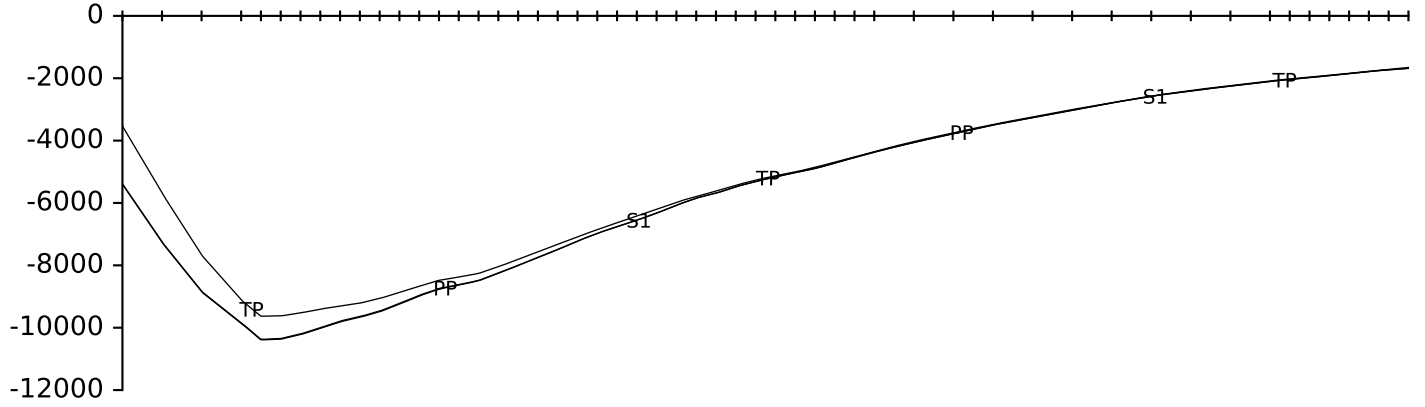
Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

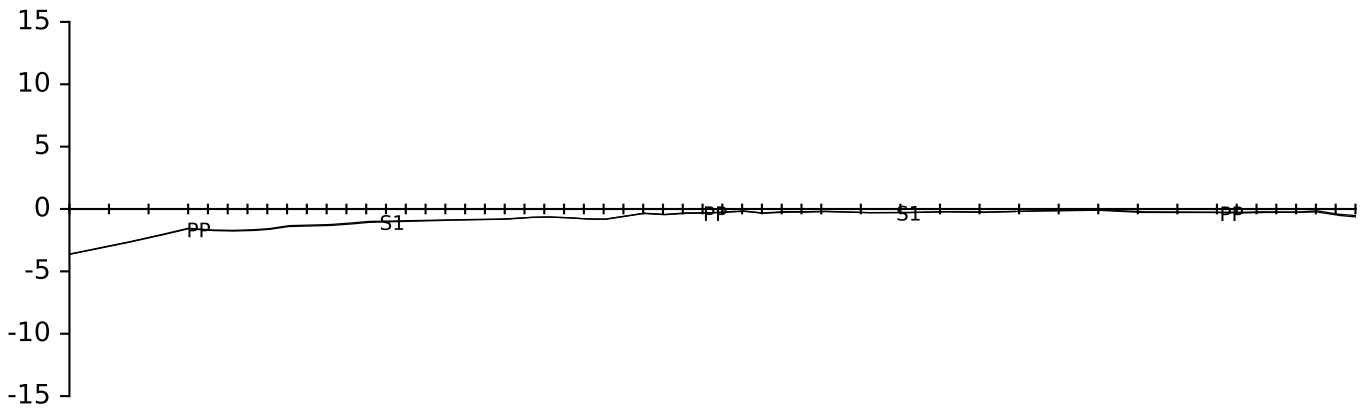
Hole: QTBL-0020  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 6, 2022

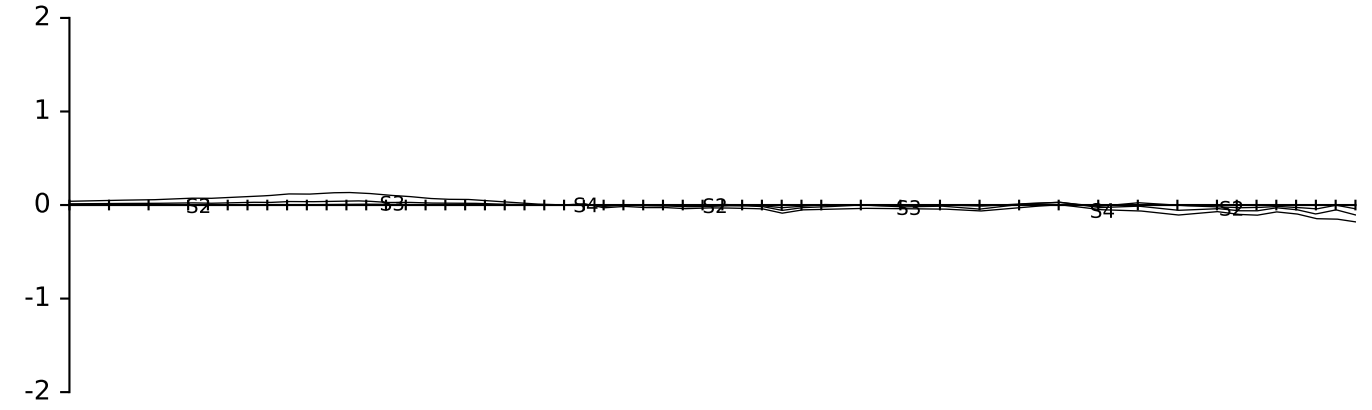
TP = Theoretical Primary  
PP = Last Ramp Channel  
S1 = Calculated Step Ch.1



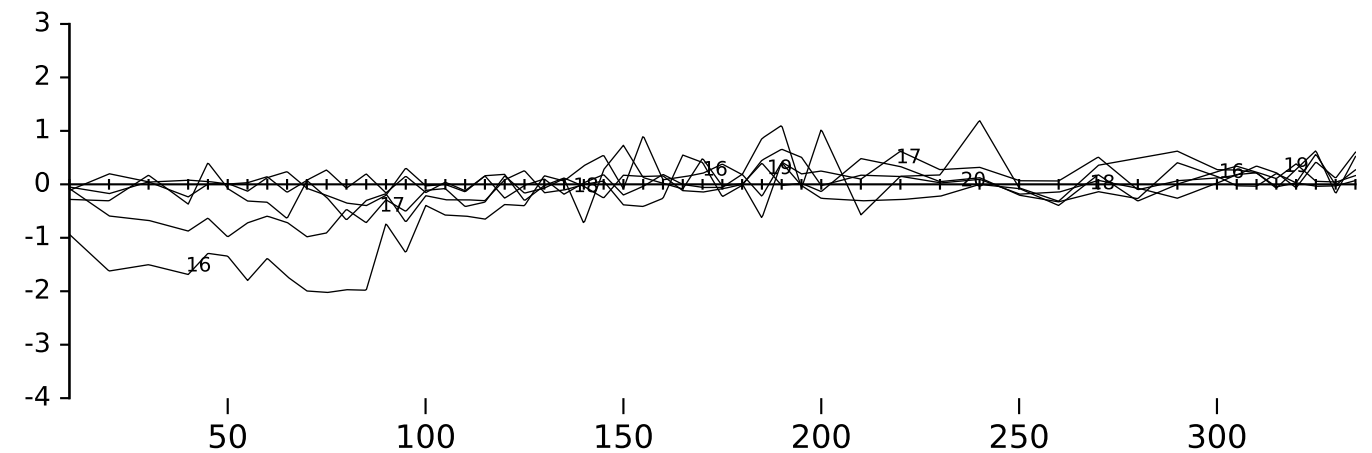
Deviation from TP  
(% Total Theoretical)



Step Channels 2 - 4  
Deviation from S1  
(% Total Theoretical)



Pulse EM Off-time  
Channels 16 - 20  
(nT/s)



666,400m E

666,600m E

666,800m E

667,000m E

667,200m E

667,400m E

5,402,000m N  
5,401,800m N  
5,401,600m N  
5,401,400m N  
5,401,200m N

Crone Geophysics & Exploration Ltd.  
 Hole and Loop Location Map  
 Borehole Induction Pulse EM Survey

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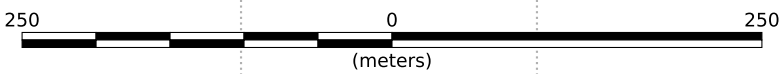
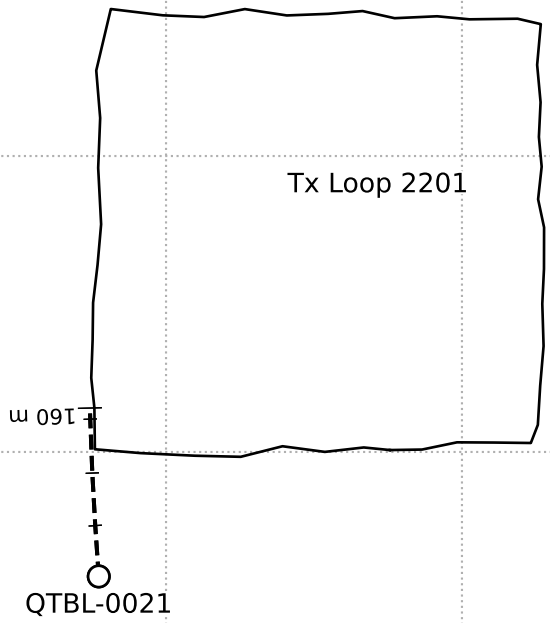
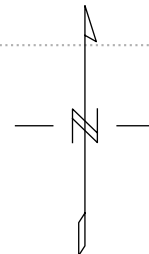
Rio Tinto Exploration  
 Baril Lake  
 Hole: QTBL-0021 Loop: 2201

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Timebase: 16.66 ms  
 Survey Date: August 08, 2022

---

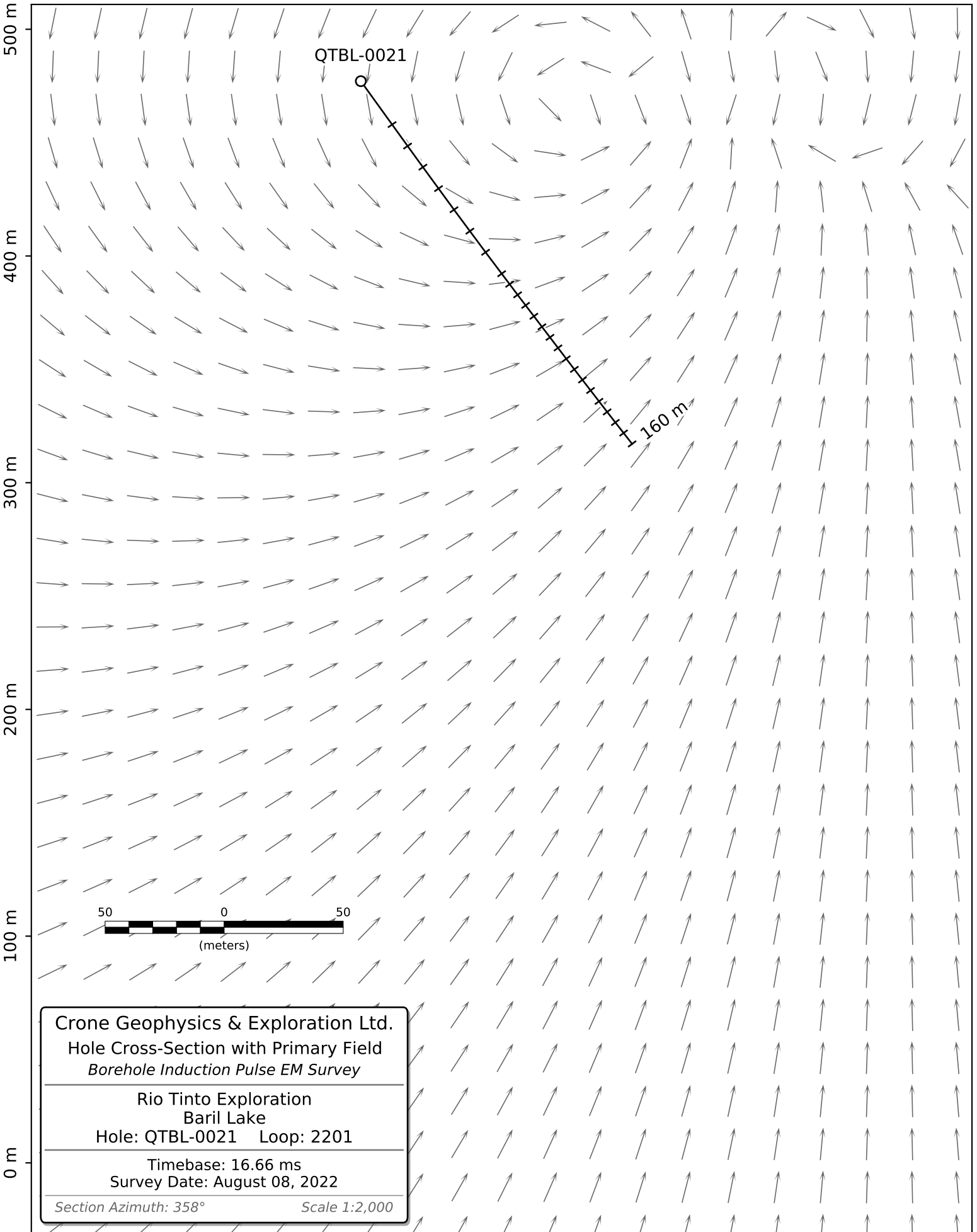
*NAD83 / UTM zone 15N* *Scale 1:5,000*



**Legend**  
 — Transmitter Loop  
 -+- Borehole Trace

666,758m E  
5,401,178m N

666,743m E  
5,401,572m N

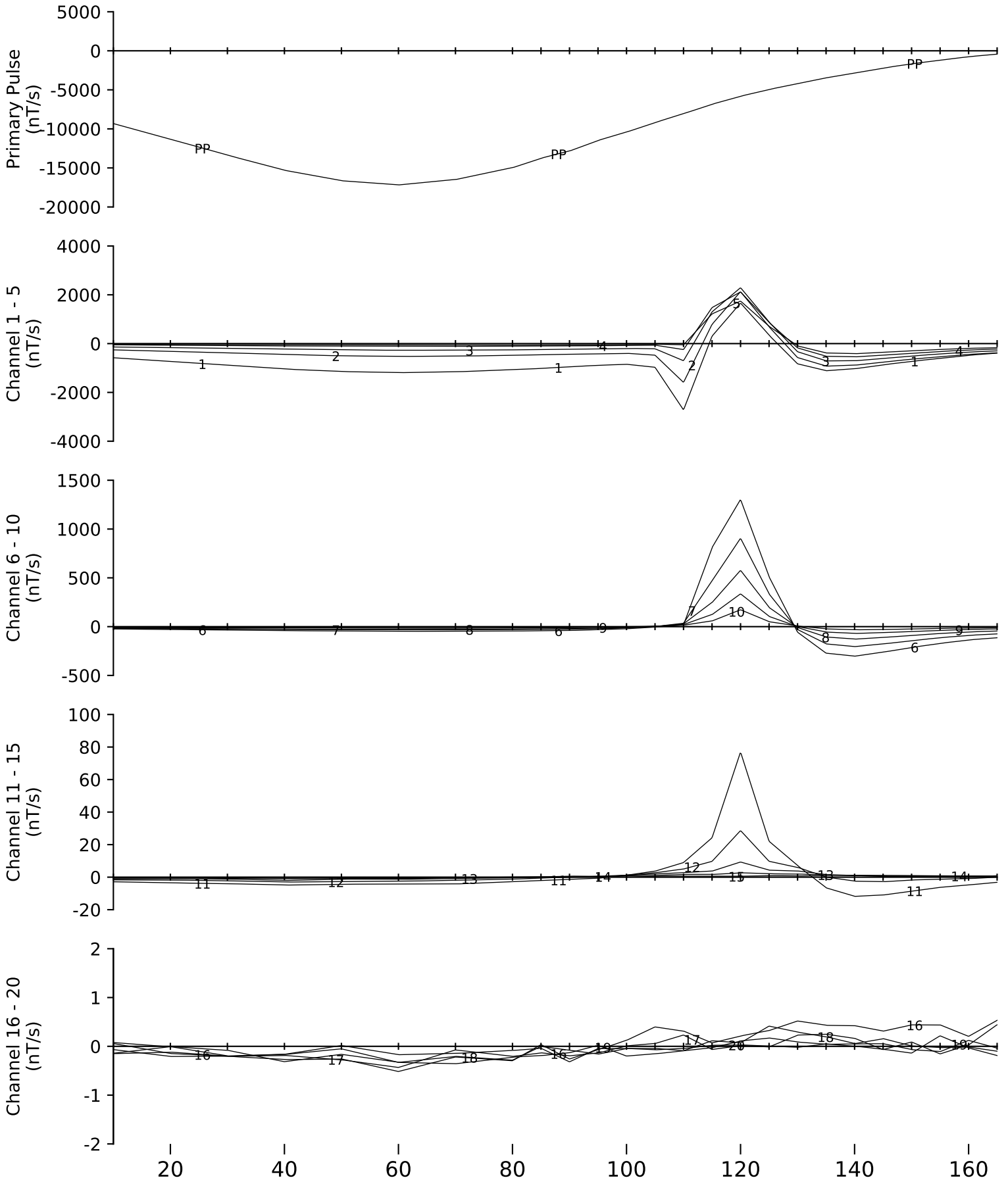


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

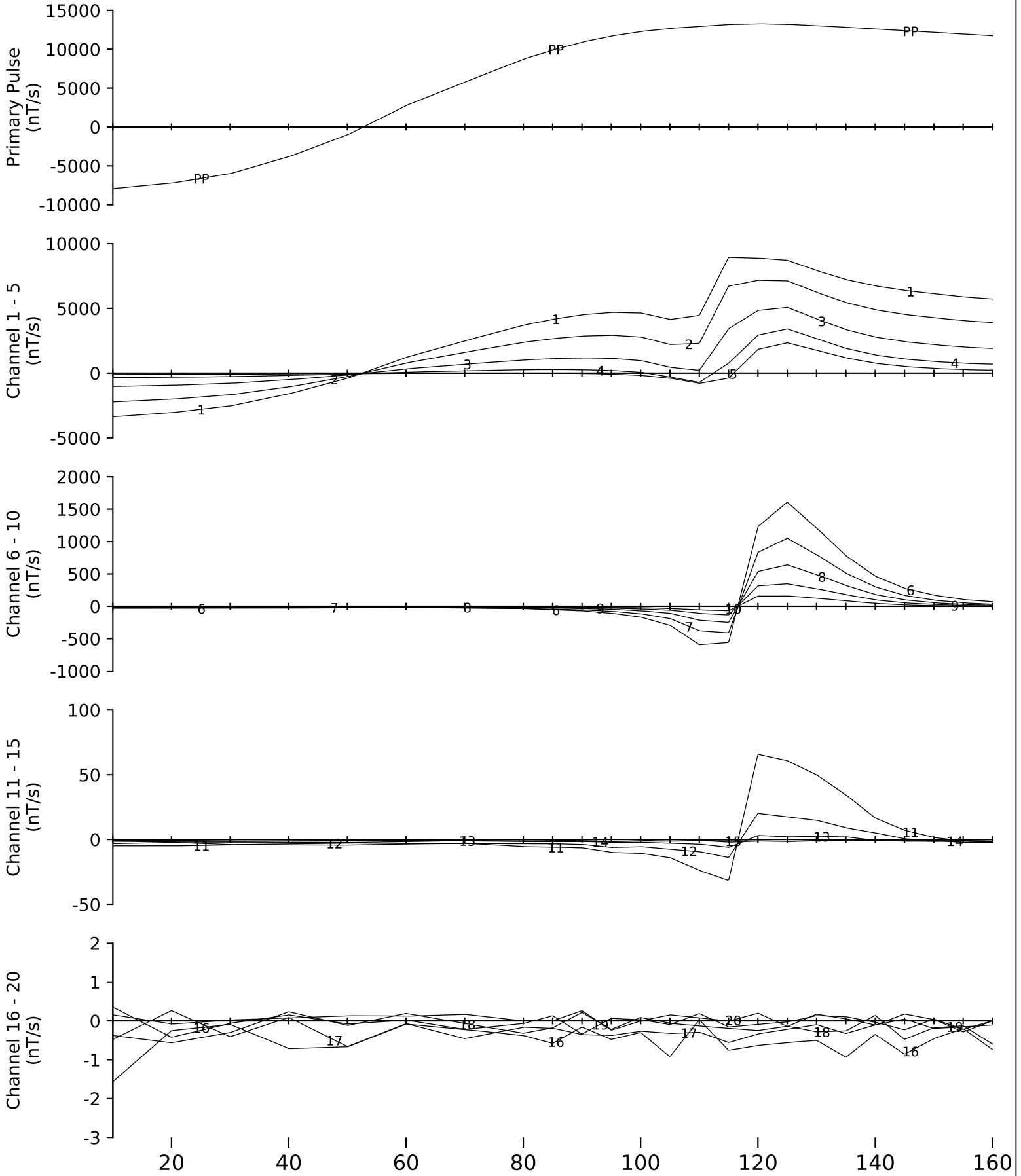


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

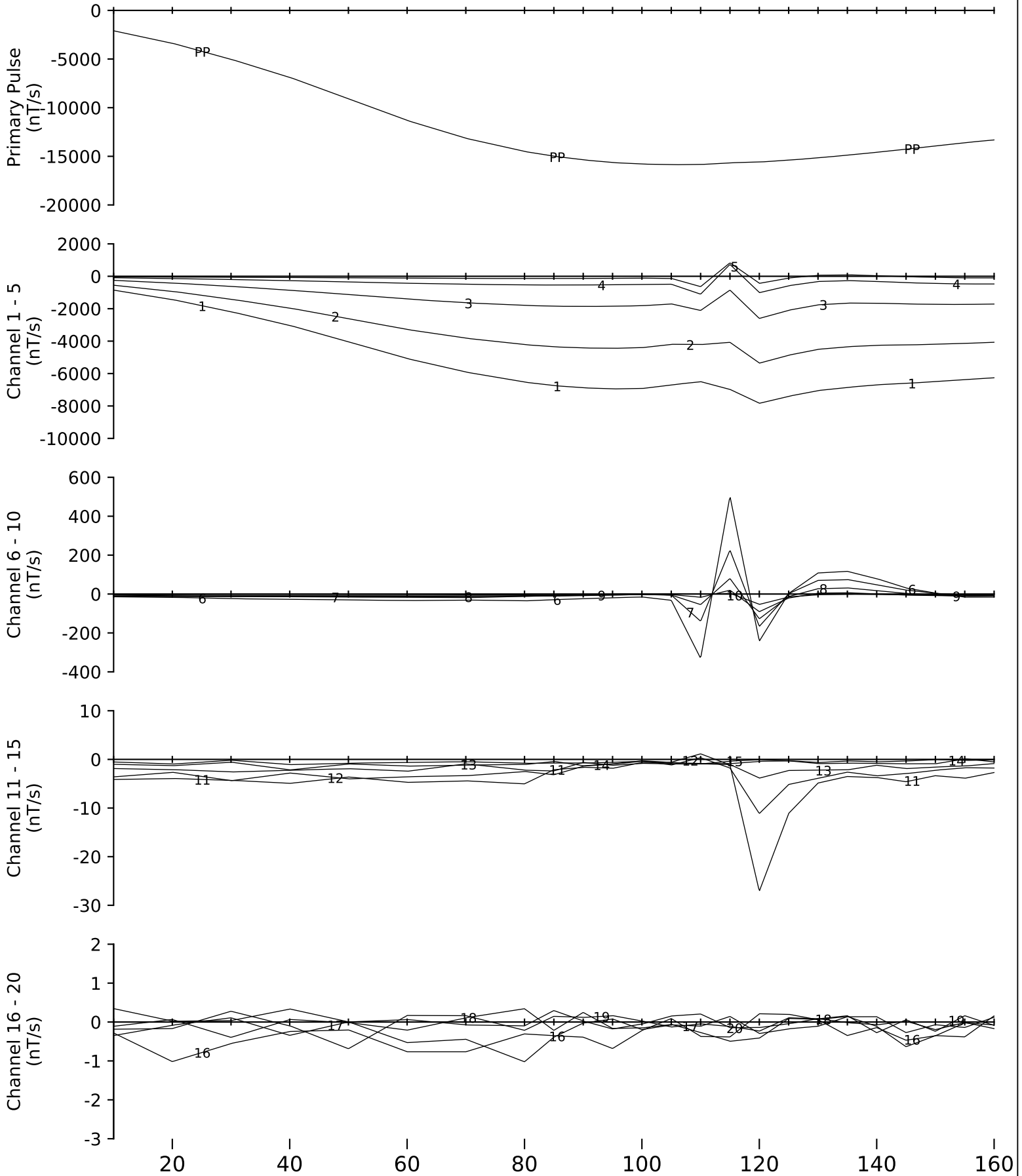


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

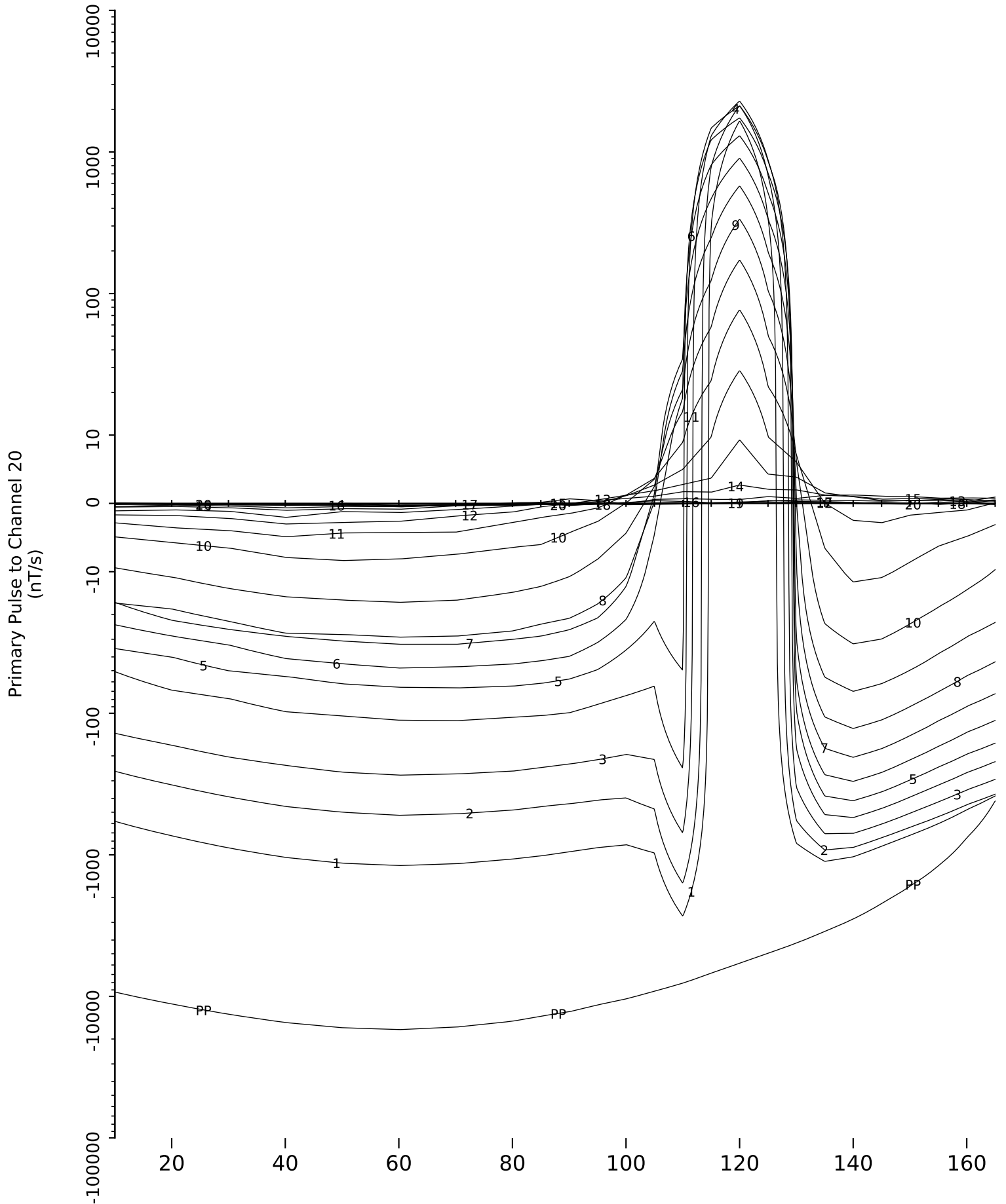


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022



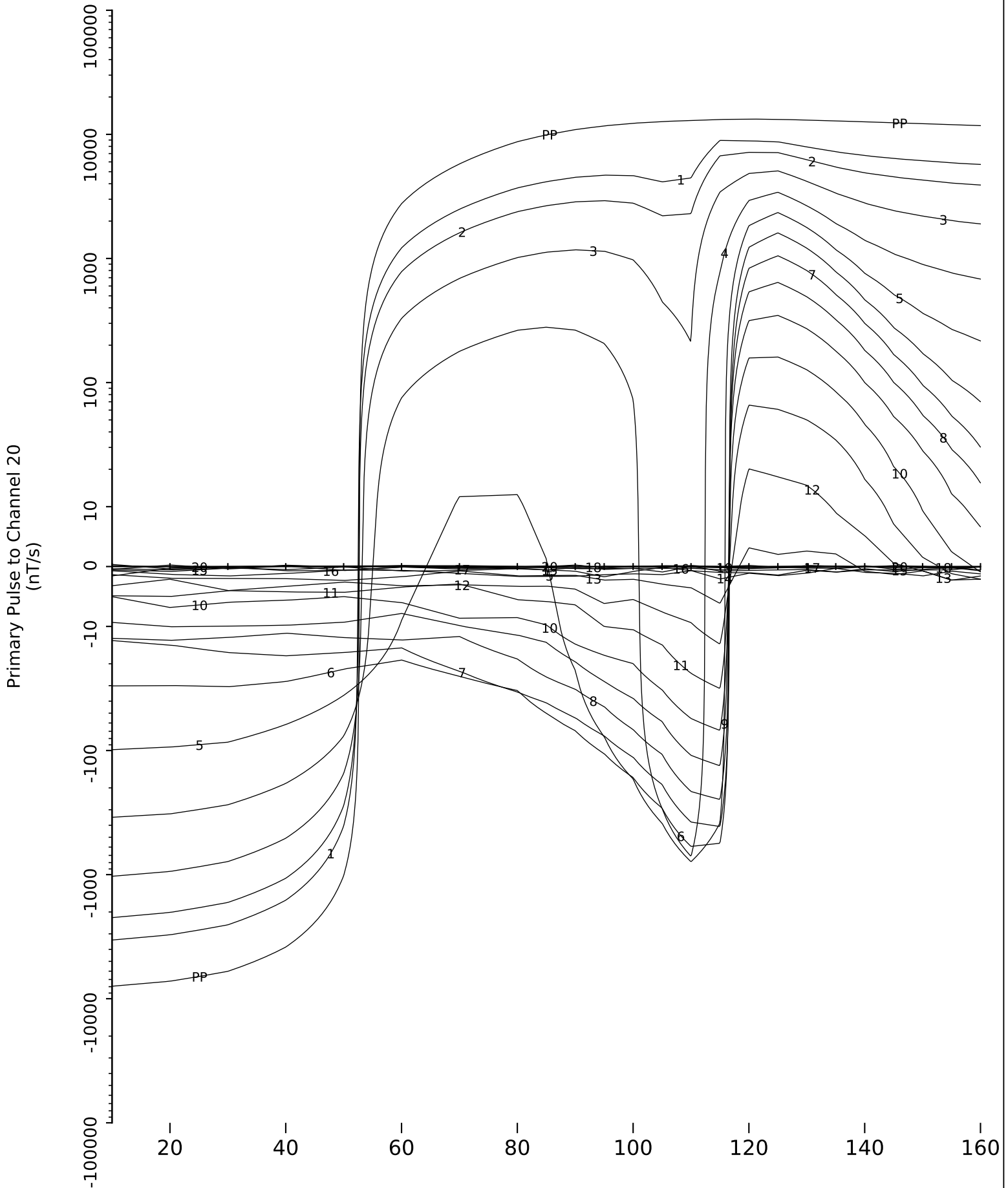


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

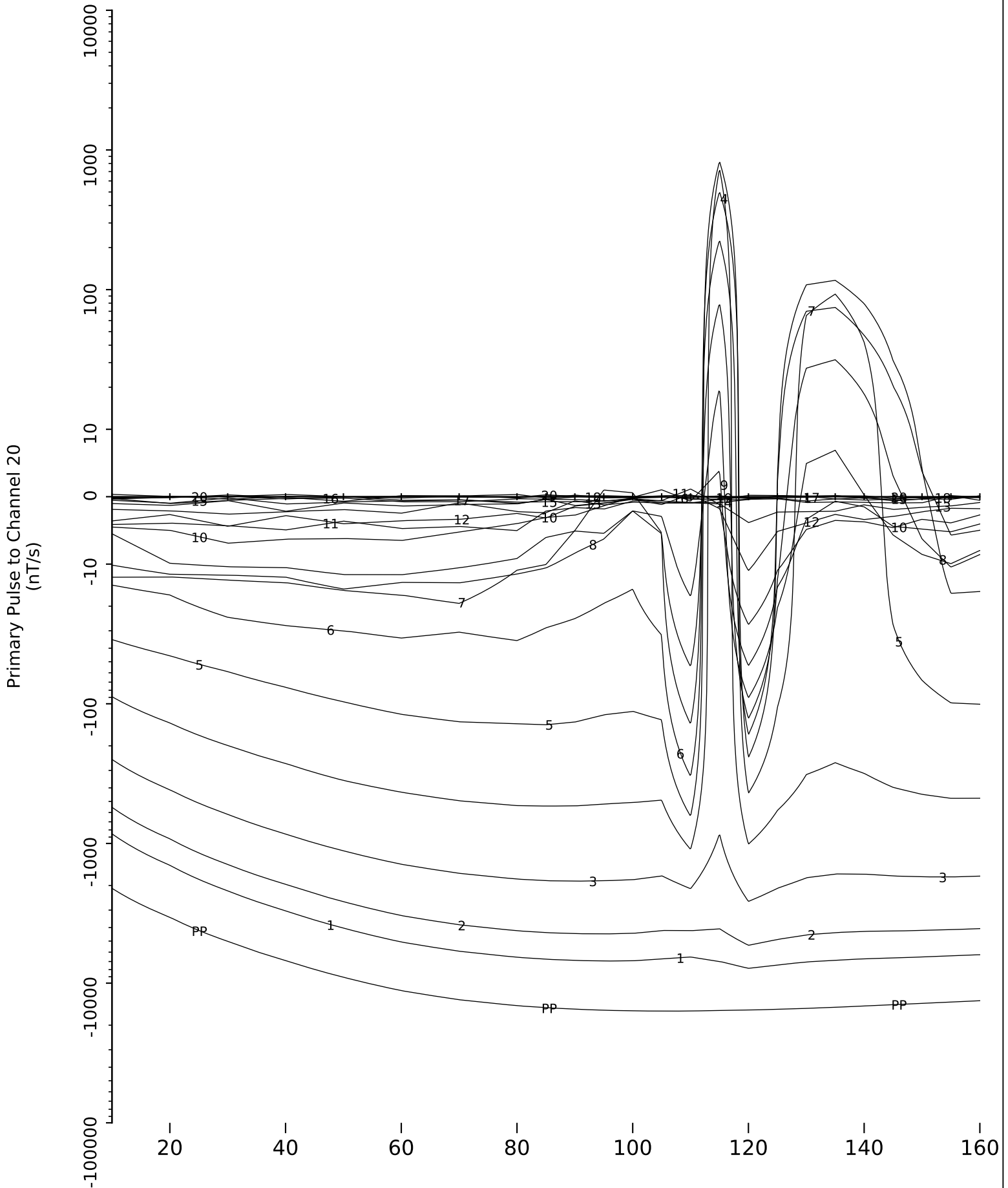


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

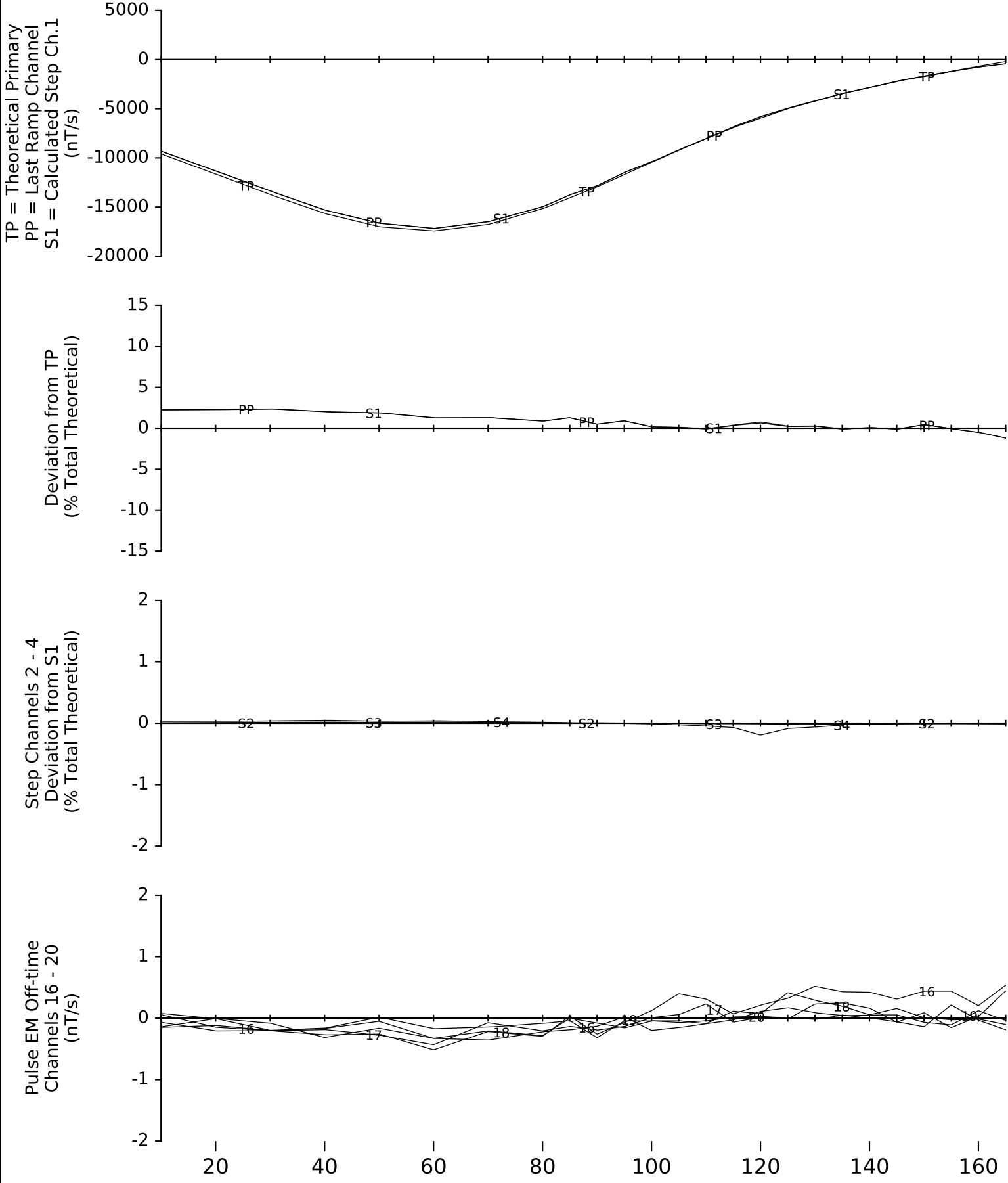


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Z Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

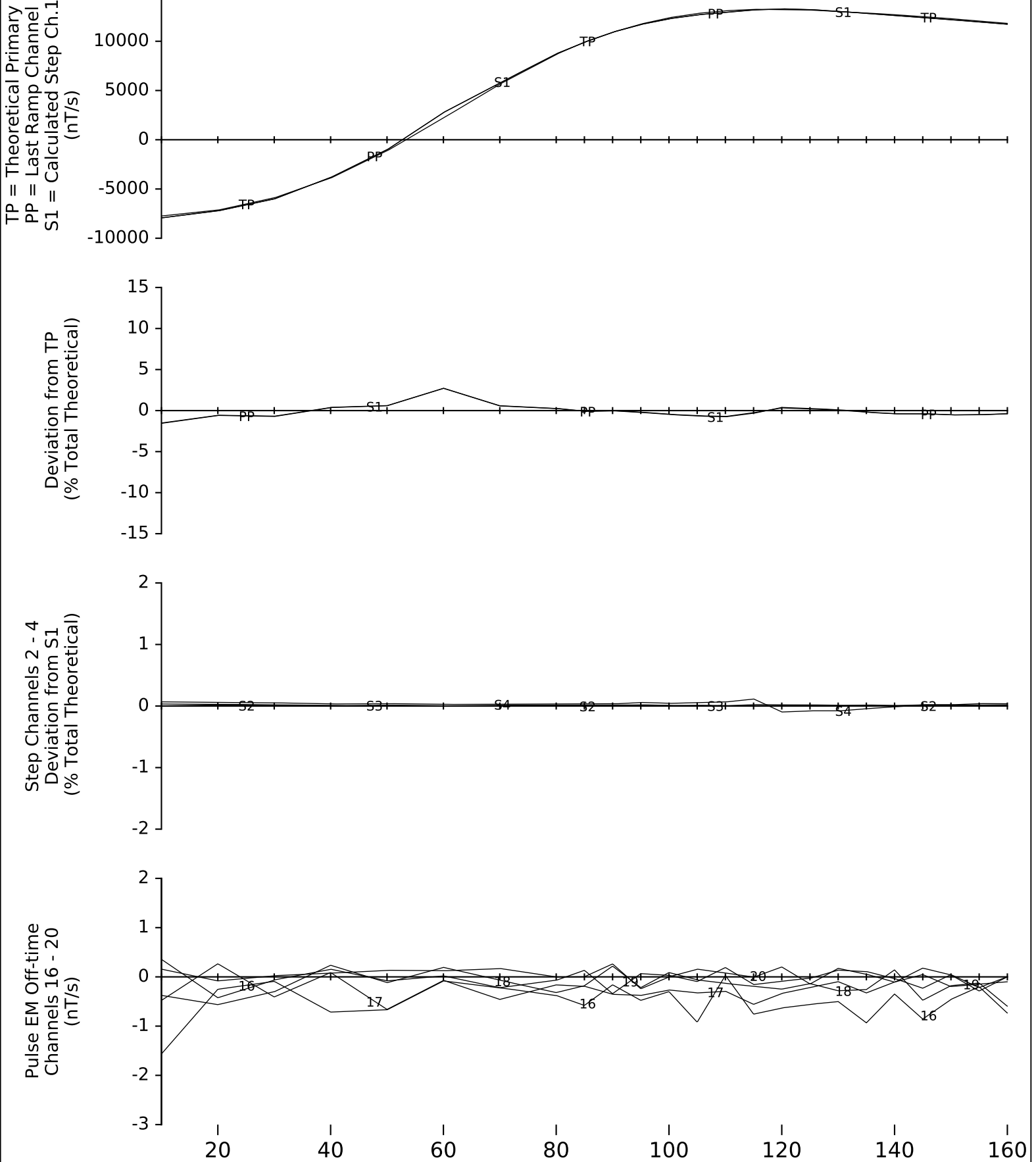


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
X Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022

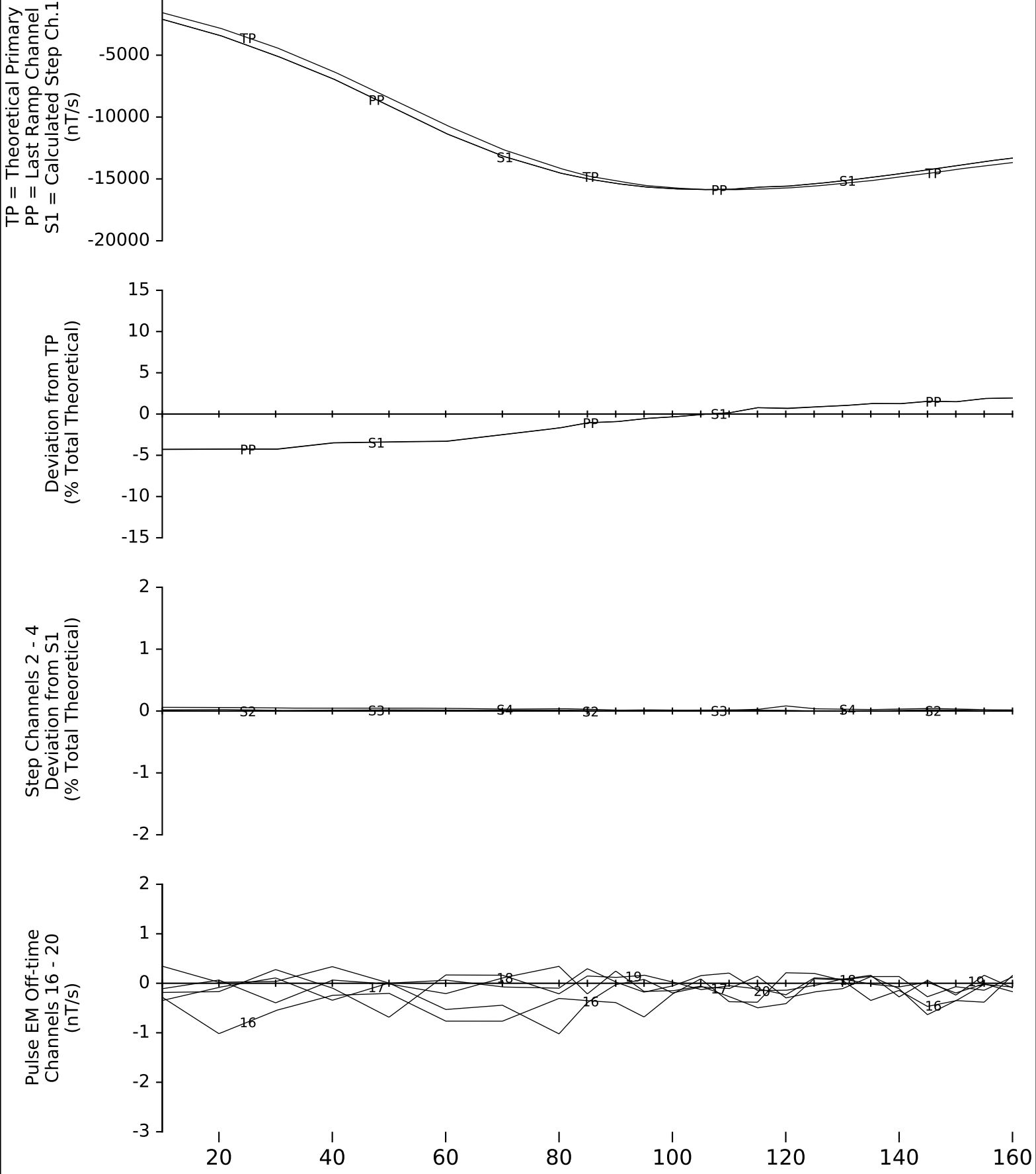


Crone Geophysics & Exploration Ltd.  
Borehole Induction Pulse EM Survey

Timebase: 16.66 ms  
Base Frequency: 15.0 Hz  
Current: 20.0 A

Hole: QTBL-0021  
Loop: 2201  
Y Component

Rio Tinto Exploration  
Baril Lake  
August 8, 2022



## **Appendix C - Core Logs**



HoleID **QTBL0010**

Claim #	311979	Hole Type	Diamond	Sampled By	Steve Pham
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	667258.28	Hole Diameter	NQ	Casing Depth (m)	3
Northing	5401481.1	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	205.6405	Drill Rig	NW	Sample Count	104
Dip	45	Start Date	22-Jun-2022	Assay Count	104
Total Length (m)	201	End Date	27-Jun-2022	Overburden (m)	3.65
Location	311979	Log Date	02-Jul-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Steve Pham	Hole Condition	Dry

Scale 1:200

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.03									
						0.01 0.02									
0	3.65	OVB	Overburden. Not Recovered \End Log												
3.65	7.13	Schist	Biotite Schist. 10pct of the interval is 15 to 30cm bands of coarse granodiorite taht has a 5mm rim of coarse biotite. 3 cm band of well foliated mafic intrusive at 6.56m with trace sulphides. \End Log				40417001	3.65 - 5 (m)	0.0053	38.5	0.001	0.0016	0.001	0.004	0.2
							40417002	5 - 7.13 (m)	0.00541	43.1	0.001	0.0018	0.001	0.004	0.23
7.13	8.21	Granite	Granite band that is locally pegmatitic. The contacts are slightly irregular but generally follow the dominant foliation \End Log				40417003	7.13 - 8.21 (m)	0.00147	15.2	0.001	0.0004	0.001	0.005	0.09
							40417004	8.21 - 9 (m)	0.00784	66.3	0.001	0.0026	0.001	0.007	0.3
							40417005	9 - 11 (m)	0.00887	59.2	0.001	0.0028	0.009	0.008	0.27
8.21	16.95	Schist	Biotite garnet schist.Abnormallyigh number of small veins in the area both parallel and perpendicular to foliation. Occasional 2-3 cm mafic band. \End Log				40417006	11 - 13 (m)	0.00804	55.7	0.002	0.0026	0.001	0.008	0.24
					3.65-28m 0.01% Disseminated Pyrite		40417007	13 - 15 (m)	0.00603	48.7	0.001	0.0021	0.004	0.006	0.24
16.95	17.72	Diorite	Fine felsic intrusive that looks distinctly less foliated than the surrounding seds \End Log				40417008	15 - 16.95 (m)	0.00736	48	0.001	0.0023	0.002	0.008	0.17
							40417009	16.95 - 17.72 (m)	0.00039	5.2	0.001	0.0004	0.001	0.005	0.04
							40417011	17.72 - 19 (m)	0.00554	42.2	0.001	0.002	0.007	0.007	0.23
							40417012	19 - 21 (m)	0.00646	52.7	0.001	0.0023	0.002	0.004	0.25
17.72	29.58	Schist	Biotite garnet schist. Increasing mineralization with veinlets and intrusive bands downhole. Bottom 1.5m is well mineralized in veins and associatd alteration. Abundant carbonate stringers parallel and perpendicular to foliation. \End Log				40417013	21 - 23 (m)	0.00641	58.8	0.001	0.0023	0.006	0.005	0.25
							40417014	23 - 25 (m)	0.00659	50.7	0.001	0.0023	0.001	0.006	0.25
							40417015	25 - 26.58 (m)	0.00781	66.8	0.001	0.0024	0.01	0.006	0.2
					28-28.8m 0.2% Vein Pyrite 0.01% Vein Chalcopyrite		40203751	26.58 - 27.58 (m)	0.00579	59.1	0.0005	0.002	0.007	0.006	0.22
					28.8-29.2m 1% Blebby Pyrite 0.25% Vein Chalcopyrite 0.1% Blebby Pyrrhotite		40203752	27.58 - 28.58 (m)	0.00574	100.5	0.0005	0.002	0.004	0.005	0.2
					29.2-29.58m 2% Vein Pyrite 2% Vein Chalcopyrite 1% Vein Pyrrhotite		40203753	28.58 - 29.58 (m)	0.0988	8,670	0.019	0.0076	0.04	0.013	1.47
					29.58-30m 0.5% Blebby Pyrite 0.1% Blebby Chalcopyrite		40203755	29.58 - 30.58 (m)	0.01305	1,350	0.0005	0.0006	0.012	0.005	0.17
							40203757	30.58 - 31.58 (m)	0.001905	22	0.0005	0.0001	0.006	0.002	0.02
							40417016	31.58 - 33 (m)	0.0012	27.7	0.001	0.0001	0.001	0.005	0.02
29.58	38.47	Granite	5-10 pct mafics that appear to be chl altered. Mineralization from the unit above infiltrates 10s of cm and traces can be found deeper. \End Log				40417017	33 - 35 (m)	0.000742	14.6	0.001	0.0002	0.001	0.005	0.02
							40417018	35 - 37 (m)	0.000294	5.9	0.0005	0.0002	0.001	0.006	0.01
38.47	79.1	Schist	Biotite schist with local garnet rich areas. local 2m bands of distinctly more felsic material at 55m. Cut by nuberosus 10 to 40 cm granite dykes. \End Log				40417019	37 - 38.47 (m)	0.000423	18.9	0.001	0.0001	0.001	0.009	0.02
							40417021	38.47 - 40 (m)	0.00557	83.9	0.001	0.0021	0.001	0.004	0.19

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03									
						0.01	0.02									
38.47	79.1	Schist	Biotite schist with local garnet rich areas. local 2m bands of distinctly more felsic material at 55m. Cut by nuberos 10 to 40 cm granite dykes. \End Log		48.5-48.75m 0.1% Vein Chalcopyrite			40417021	38.47 - 40 (m)	0.00557	83.9	0.001	0.0021	0.001	0.004	0.19
								40417022	40 - 42 (m)	0.00608	57.3	0.001	0.0023	0.001	0.006	0.24
								40417023	42 - 44 (m)	0.00619	56.1	0.001	0.0023	0.004	0.005	0.24
								40417024	44 - 46 (m)	0.0069	50.2	0.001	0.0024	0.001	0.007	0.2
								40446601	46 - 47 (m)	0.0067	48	0.0005	0.0022	0	0.001	0.18
								40446602	47 - 48 (m)	0.0084	55	0.0005	0.0025	0.001	0.002	0.27
								40446603	48 - 49 (m)	0.0068	57	0.0005	0.0022	0	0.001	0.25
								40446604	49 - 50 (m)	0.0077	56	0.0005	0.0024	0	0	0.27
								40446605	50 - 51 (m)	0.009	56	0.0005	0.0025	0	0	0.26
								40417025	51 - 53 (m)	0.00742	51.2	0.001	0.0023	0.002	0.004	0.26
								40417026	53 - 55 (m)	0.00449	36.5	0.001	0.0015	0.001	0.005	0.25
								40417027	55 - 57 (m)	0.0024	28.6	0.001	0.0009	0.006	0.002	0.24
								40417028	57 - 59 (m)	0.01305	46.8	0.001	0.0027	0.003	0.007	0.2
								40417029	59 - 61 (m)	0.00941	51.3	0.002	0.0024	0.003	0.004	0.22
								40417031	61 - 63 (m)	0.00611	39.8	0.001	0.0021	0.005	0.002	0.18
								40417032	63 - 65 (m)	0.00595	41.7	0.001	0.002	0.001	0.002	0.22
								40417033	65 - 68 (m)	0.00642	37.9	0.001	0.0022	0.005	0.009	0.17
		40417034	68 - 71 (m)	0.00545	47.4	0.001	0.002	0.001	0.007	0.24						
		40417035	71 - 74 (m)	0.00634	29.2	0.001	0.0021	0.001	0.008	0.25						
		40417036	74 - 77 (m)	0.00398	21.7	0.001	0.0013	0.005	0.008	0.23						
		40417037	77 - 79.19 (m)	0.00391	32	0.001	0.0015	0.004	0.007	0.23						
79.1	80.91	Diorite	Fine quartz diorite devoid of foliation. The contacts are at a very low angle and are very irregular with local coarse granite material \End Log					40417038	79.19 - 80.91 (m)	0.001055	14.2	0.001	0.0005	0.001	0.005	0.05
								40417039	80.91 - 83 (m)	0.00476	38.2	0.001	0.0016	0.001	0.005	0.17
								40417041	83 - 85 (m)	0.00704	46.3	0.001	0.002	0.001	0.005	0.23
					82.5-87m 0.25% Disseminated Pyrite			40417042	85 - 87 (m)	0.00748	51	0.001	0.0021	0.001	0.004	0.22
								40417043	87 - 89 (m)	0.0064	53.3	0.002	0.0021	0.001	0.006	0.23
								40417044	89 - 91 (m)	0.00653	47.7	0.001	0.002	0.001	0.005	0.21
80.91	103.08	Schist	Biotite schist. Local py very finely disseminated. Cut by regular 10 to 30cm granite dyles \End Log					40417045	91 - 93 (m)	0.00583	40.8	0.001	0.0019	0.001	0.004	0.17



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03								
						0.01	0.02								
80.91	103.08	Schist	Biotite schist. Local py very finely disseminated. Cut by regular 10 to 30cm granite dyles. \End Log		94-95m 0.25% Disseminated Pyrite		40417045	91 - 93 (m)	0.00583	40.8	0.001	0.0019	0.001	0.004	0.17
							40417046	93 - 96 (m)	0.00593	44	0.001	0.0022	0.001	0.007	0.24
							40417047	96 - 99 (m)	0.00628	41.7	0.001	0.002	0.004	0.002	0.24
							40417048	99 - 102 (m)	0.00834	62.6	0.001	0.0027	0.007	0.005	0.38
103.08	104.57	Granite	Locally pegmatitic granite with 5pct chloritized mafics. \End Log Biotite schis locally cut but granite dykes. At 111.15 there is a 1cm band of medium grained hornblende that is appears to be folded. At 114.40 there is a 10cm zone of abundant hornblende. @ 111.95-116.35 1-5% v/f-g diss py. \End Log				40417049	102 - 103.08 (m)	0.00635	43.5	0.001	0.0018	0.001	0.004	0.23
							40417051	103.08 - 104.57 (m)	0.000293	1.2	0.001	0.0001	0.001	0.002	0.01
							40417052	104.57 - 106 (m)	0.00975	61.5	0.001	0.0029	0.001	0.006	0.3
							40417053	106 - 108 (m)	0.00855	54.7	0.001	0.0025	0.001	0.004	0.26
104.57	117.23	Schist	Sharp steep upper contact with biotite schist. Localized 2-5 mm wide magnetite crystals within ~70 cm of contact. Crosscut by 1.5 to 13 cm thick coarse-grained k-spar rich pink granitic bands. ~20% fine-grained biotite. Lower contact is irregular and sharp. Proximal to contact coarse-grained pink granitic "clasts". Few 5 mm wide magnetite crystals within ~20cm of lower contact. \End Log Sharp steep lower contact. Few pegmatitic k-spar crystals. ~5% fine-grained mafic minerals. \End Log				40417054	108 - 110 (m)	0.00768	52.2	0.001	0.0024	0.001	0.007	0.28
							40417055	110 - 112 (m)	0.00701	50.7	0.001	0.0024	0.001	0.008	0.31
							40446606	112 - 114 (m)	0.0063	57	0.0005	0.0026	0	0	0.93
							40446607	114 - 115 (m)	0.0062	61	0.0005	0.003	0	0.001	1.22
							40446608	115 - 116.35 (m)	0.003	69	0.0005	0.0027	0	0	1.51
117.23	119.98	Granite	Common k-spar with ~2m of upper contact. @121.83 m 5 cm wide chlorite altered weakly foliated mafic band or bio schist. @121.88 cm 12 cm wide zone of garnet bio schist/ mafic band? and irregular Qtz-plag bands. Mafic zone has sharp contacts. trace f-g diss py in mafic zone. 3-35 cm thick granitic bands throughout. Trace f-g diss py in granitic bands. DIO is weakly foliated. \End Log Very irregular sharp upper contact. Sharp lower contact along foliation of DIO. Localized 1-2 cm wide magnetite crystals. \End Log		112-116.35m 5% Disseminated Pyrite		40417056	116.35 - 117.23 (m)	0.00788	28.7	0.001	0.002	0.001	0.004	0.17
							40417057	117.23 - 119 (m)	0.00115	8.7	0.001	0.0006	0.001	0.002	0.05
119.98	120.71	Granite	Weakly foliated. Two 4cm thick pink granitic bands near upper contact along foliation. Upper and lower contacts both sharp and along foliation. @130.20m 4 cm wide weakly foliated green/black mafic band. \End Log		117.23-119.98m 0.1% Disseminated Pyrite		40417058	119 - 119.98 (m)	0.001205	9.6	0.002	0.0005	0.001	0.002	0.06
							40417059	119.98 - 120.71 (m)	0.000181	2	0.0005	0.0001	0.002	0.004	0.01
120.71	127.17	Diorite	5 cm thick granitic band at upper contact. Sharp upper contact along foliation. Variable plag content. Shift from ~30% subhedral plag @130.53 to ~55% anhedral plag. Sharp lower contact along fol. Green mafic subhedral min hornblende? \End Log Sharp lower contact along foliation. 0.5-1.5 cm wide magnetite crystals common. \End Log		121.88-122m 0.1% Disseminated Pyrite		40417061	120.71 - 122 (m)	0.00251	12.1	0.001	0.0009	0.001	0.002	0.08
							40417062	122 - 124 (m)	0.00133	10	0.001	0.0006	0.001	0.004	0.07
							40417063	124 - 126 (m)	0.00138	7.5	0.001	0.0007	0.001	0.002	0.06
127.17	128.07	Granite			125.85-126.34m 0.1% Disseminated Pyrite		40417064	126 - 128.07 (m)	0.000717	4.3	0.001	0.0003	0.001	0.002	0.04
128.07	130.26	Diorite	@131.92m 31cm thick medium-grained granitic band. @132.52m 1 cm thick folded medium-grained granitic band. @ ~133.75m GAB grain size becomes variable. Before this only m-g, c-g feldspar is pink possible hematite staining? elongated subhedral greenish mafic min hornblende? Lower contact sharp and along foliation. Anhedral plag. 2 cm granitic band near lower contact. Common 1mm thick calcite veins within c-g gab. 0.1-1% diss f-g py. Rare c-g blebby py. \End Log				40417065	128.07 - 130.31 (m)	0.00197	9.2	0.001	0.0009	0.001	0.004	0.08
130.26	130.83	Gabbro					40446609	130.31 - 130.83 (m)	0.0094	33	0.0005	0.0027	0	0	0.19
130.83	131.77	Granite			130.83-130.83m 0.1% Disseminated Pyrite		40417066	130.83 - 131.77 (m)	0.00186	14.1	0.001	0.0002	0.001	0.004	0.09
							40446611	131.77 - 131.92 (m)	0.0047	20	0.001	0.0023	0	0	0.08
							40446612	131.92 - 132.24 (m)	0.0014	10	0.0005	0.0007	0	0	0.05
131.77	136.18	Gabbro	Localized 5mm wide magnetite crystals. Lower contact is sharp and irregular. Trace diss m-g py in first 30 cm. Trace v-f-g diss cpy. Lower contact has trace diss f-g py. \End Log		132.7-136.18m 1% Disseminated Pyrite		40446613	132.24 - 134 (m)	0.0031	64	0.001	0.0033	0.001	0	0.24
							40446614	134 - 135 (m)	0.0015	54	0.0005	0.0044	0	0	0.35
136.18	137.04	Granite	Common 1mm thick calcite veins. Lower contact sharp and along foliation. Hematite stained anhedral plag? Green mafic minerals hornblende? Varitextured. F-g section from 137.39-137.57m with substantially less plag and 2% py. 0.5-2% f-g diss py throughout. \End Log		136.18-136.48m 0.2% Disseminated Pyrite		40446615	135 - 136.18 (m)	0.0007	80	0.0005	0.0033	0	0	0.4
137.04	137.9	Gabbro			137.04-137.04m 0.1% Disseminated Pyrite		40417067	136.18 - 137.04 (m)	0.000337	22.4	0.001	0.0004	0.001	0.002	0.13
					137.04-137.9m 2% Disseminated Pyrite		40446616	137.04 - 137.9 (m)	0.0032	273	0.001	0.0044	0	0	1.3
							40446617	137.9 - 139 (m)	0.0057	41	0.0005	0.0019	0	0	0.22
137.9	144.78	Schist	Biotite schist. Abundant 1mm thick calcite veins along and perpendicular to foliation. Few folded 2mm-1cm wide calcite/Qtz/plag veins @ ~144.30. Lower contact is irregular and sharp. 0.5-5cm wide c-g granitic bands. 2.5-10 cm wide m-g granitic to diorite bands along fol. One diorite band at 141.12 has spotty texture. \End Log				40446618	139 - 141 (m)	0.0072	58	0.0005	0.0025	0	0.001	0.32
							40446619	141 - 143 (m)	0.0076	60	0.0005	0.0025	0	0.001	0.38
144.78	145.98	Breccia	Mostly subrounded plag crystals as clasts. Some diorite clasts. Clast dominated until 145.54m and 26cm wide section lacks clasts. Matrix is dominantly biotite some chlorite. Lower contact is irregular and sharp. Trace diss f-g py associated with matrix in clast dom section. \End Log		144.78-145.98m 0.05% Disseminated Pyrite		40446621	143 - 144.78 (m)	0.0063	64	0.0005	0.002	0	0	0.26
							40446622	144.78 - 145.55 (m)	0.0038	15	0.0005	0.0011	0	0	0.05
							40446623	145.55 - 145.79 (m)	0.0261	3	0.0005	0.0057	0.004	0.005	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.01									
						0.02									
144.78	145.98	Breccia	Mostly subrounded plag crystals as clasts. Some diorite clasts. Clast dominated until 145.54m and 26cm wide section lacks clasts. Matrix is dominantly biotite some chlorite. Lower contact is irregular and sharp. Trace diss f-g py associated with matrix in clast dom section. \End Log		144.78-145.98m 0.05% Disseminated Pyrite		40446623	145.55 - 145.79 (m)	0.0261	3	0.0005	0.0057	0.004	0.005	0.02
145.98	147.05	Diorite					40417068	145.79 - 147.05 (m)	0.00122	4.2	0.001	0.0003	0.002	0.004	0.01
					147.93-148m 0.2% Blebby Pyrite										
147.05	157.95	Schist	@146.48m fine to c-g lathic biotite 1cm thick band. Few thinner clusters/bands before 146.48m within 15cm wide zone. 1mm wide grey vein perpendicular to fol. \End Log Foliation differs proximal to upper contact. Many 2mm-1cm thick green mafic hornblende bands present within 144.75-145.50m. 1mm-10cm wide c-g granite bands. Some bands have associated f-g blebby py. Lower contact sharp and along fol. \End Log		151.35-151.57m 0.1% Blebby Pyrite		40417069	147.05 - 153 (m)	0.0101	59.2	0.002	0.0026	0.001	0.005	0.42
157.95	161.44	Granite	Rare clusters of mafic mins biotite. Lower contact is irregular. \End Log				40417072	157.95 - 161.44 (m)	0.00028	1.6	0.001	0.0001	0.001	0.005	0.01
161.44	165.08	Schist	2mm to 8.5 cm thick med/c-g granitic/dioritic bands along fol. \End Log				40446624	161.44 - 163 (m)	0.0083	45	0.0005	0.0024	0	0.001	0.16
165.08	165.36	Gabbro	Sharp lower and upper contacts along fol. ~50% mafic min altered to chl weak hornblende? ~40% anhedral plag. \End Log				40446625	163 - 165.08 (m)	0.0079	67	0.0005	0.0024	0	0.001	0.27
165.36	166.33	Schist	15 cm wide m-g dioritic band. \End Log				40446626	165.08 - 165.36 (m)	0.0301	1	0.0005	0.0049	0.005	0.004	0.01
166.33	166.57	Gabbro	Sharp lower and upper contacts along fol. ~50% mafic min altered to chl weak hornblende? ~40% anhedral plag. \End Log				40446627	165.36 - 166.33 (m)	0.0059	58	0.0005	0.0019	0	0	0.18
							40446628	166.33 - 166.57 (m)	0.0201	9	0.0005	0.0042	0.004	0.003	0.04
							40446629	166.57 - 168 (m)	0.0067	58	0.0005	0.0024	0	0	0.23
166.57	172.65	Schist	Biotite schist. green mod- foliated mafic band-hornblende? @168.42m 11cm thick. 2mm to 30cm thick c-g granitic bands/ m-g dioritic bands throughout. 1mm wide qtz veins common perpendicular to fol. Sharp irregular lower contact. \End Log				40446631	168 - 170 (m)	0.0071	55	0.0005	0.0023	0	0.001	0.23
172.65	174.45	Granite	~2cm wide irregular patches of bio schist. Sharp irregular lower contact. \End Log				40417073	170 - 176.29 (m)	0.00461	27.7	0.001	0.0014	0.001	0.004	0.1
174.45	175.52	Schist	Abundant 1mm to 11cm thick m-g dioritic bands. Lower contact irregular. \End Log												
175.52	176.29	Granite	Irregular sharp lower contact. \End Log												
176.29	186.06	Schist	Biotite schist. Few garnets @~184m. @177.63m 49cm wide greenish band chl-alt of bio? not abundant 1-2mm thick calcite veins along and perpendicular to fol. 2mm to 6cm thick m-g dioritic bands. Few are bouldered. Irregular qtz-rich 5-8cm thick pegmatitic granite bands common. Some blebby f-g py associated with c-g bands. @ 182.40m 40cm thick dioritic band with c-g qtz at center. Sharp lower contact following fol. \End Log		180.15-180.19m 0.2% Blebby Pyrite		40417074	176.29 - 181 (m)	0.0116	44.8	0.001	0.0028	0.001	0.005	0.19
186.06	187.53	Granite	Few 1-2mm wide biotite bands near contacts. Lower contact is sharp & along fol. \End Log												
187.53	194.67	Schist	Biotite schist. 2mm to 16cm thick med to vcoarse-g granitic bands along fol. \End Log				40417075	181 - 187.53 (m)	0.00499	39.8	0.001	0.0016	0.001	0.004	0.18
194.67	196.59	Granite	~1cm thick irregular biotite band @ 198.50m. Weak sericite alt of feldspar? green. \End Log				40417076	187.53 - 194.67 (m)	0.00572	41.7	0.001	0.0018	0.001	0.002	0.19
196.59	201	Schist	Biotite schist. abundant 2-38cm thick c-g granitic bands. some with irregular contacts. few c-g granitic bands associated with trace f-g dis py at contacts. @ 197.69m 24cm thick m-g dioritic band along fol. \End Log				40417077	194.67 - 196.59 (m)	0.000496	3.4	0.0005	0.0003	0.002	0.002	0.02
							40417078	196.59 - 201 (m)	0.00477	34.4	0.001	0.0015	0.001	0.004	0.16

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03									
						0.01	0.02									
196.59	201	Schist	Biotite schist, abundant 2-38cm thick c-g granitic bands, some with irregular contacts. few c-g granitic bands associated with trace f-g dis py at contacts. @ 197.69m 24cm thick m-g dioritic band along fol. End Log		198.65-198.65m 0.01% Disseminated Pyrite			40417078	196.59 - 201 (m)	0.00477	34.4	0.001	0.0015	0.001	0.004	0.16



HoleID **QTBL0011**

Claim #	228330	Hole Type	Diamond	Sampled By	Conner Arts
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	666935.49	Hole Diameter	NQ	Casing Depth (m)	12
Northing	5401351	Drill Company	Downing Drilling	Casing Left	No
Azimuth	0.6405	Drill Rig	NW	Sample Count	48
Dip	45	Start Date	27-Jun-2022	Assay Count	48
Total Length (m)	165	End Date	30-Jun-2022	Overburden (m)	10.44
Location	228330	Log Date	06-Jul-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Steve Pham	Hole Condition	Dry

Scale 1:200

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.06									
						0.02 0.04									
0	10.44	Overburden	Not recovered. \End Log												
10.44	10.84	Granodiorite	Top contact undefined. 30 pct mafics bt. No sulphides. Locally coarse grained. 4cm of spun granite boulder? \End Log		10.44-10.84m 0% NoneObserved Pyrite		40417080	10.44 - 12 (m)	0.00436	32.6	0.002	0.0016	0.002	0.004	0.17
10.84	18.37	Schist	Undefined top contact. Two compositions of bands. First abundant >4cm bands blue chemical halo qtz-feldspar and local >6cm green foliated mafic band. Bands are parallel to foliation fabric. Disseminated pyrite in qtz-feldspar bands. Local 1mm c-veins. \End Log	10.84-18.37m Strong Calcite Vein	10.84-18.37m 0.1% Disseminated Pyrite		40417082	12 - 16 (m)	0.00814	70.7	0.001	0.0028	0.016	0.005	0.36
18.37	20.5	Diorite	Medium grained - pegmatitic quartz diorite. Top sharp contact. Disseminated pyrite along fractures. 30-50cm of 30 pct mafic in medium grained unit. Pegmatitic unit has 15% mafics that have been chloritized and saussitized. \End Log	18.37-20.5m Moderate Saussuritic Pervasive	18.37-20.5m 0.1% Disseminated Pyrite 0.1% Fractures Pyrite		40417083	16 - 18.37 (m)	0.00635	46.8	0.001	0.0021	0.009	0.004	0.26
20.5	21.06	Diorite	Medium-grained diorite with 35% mafic bt. 0.1% disseminated pyrite associated with biotite. Sharp top and bottom contacts \End Log	20.5-21.06m Weak Saussuritic Patchy	20.5-21.06m 0.1% Disseminated Pyrite		40417084	18.37 - 20.5 (m)	0.000728	12.6	0.001	0.0003	0.002	0.002	0.09
21.06	22.15	Diorite	Pegmatitic quartz diorite 10% mafic bt. 0.3% sulphide. Sharp top and bottom contacts. Locally biotite rich zones with 15-20% bt. \End Log	21.06-22.15m Weak Saussuritic Patchy	21.06-22.15m 0.2% Disseminated Pyrite 0.1% Fractures Pyrite		40417085	20.5 - 21.06 (m)	0.00133	14.8	0.001	0.0006	0.003	0.002	0.08
							40417086	21.06 - 22.15 (m)	0.000287	22.7	0.001	0.0002	0.005	0.002	0.13
22.15	26.67	Diorite	Medium grained quartz diorite with 25% mafic bt. 0.1% sulphide. Unit is sharply cut at 24-24.23m by a pegmatitic granodiorite with 0.1% diss py. \End Log	22.15-26.67m Weak Calcite Interstitial	22.15-26.67m 0.1% Disseminated Pyrite		40417087	22.15 - 26.67 (m)	0.00343	19.4	0.001	0.0008	0.002	0.002	0.12
26.67	29.46	Granodiorite	Medium-grained granodiorite with 20% mafic bt and 0.2% diss py. Two pegmatitic granite bands at 27-25.25m and 27.21-27.86m with 0.1% diss py. \End Log	26.67-29.46m Trace Calcite Patchy	26.67-29.46m 0.2% Disseminated Pyrite		40417088	26.67 - 27.46 (m)	0.00072	6.6	0.001	0.0003	0.001	0.002	0.03
							40203760	27.46 - 28.46 (m)	0.001415	10.5	0.0005	0.0007	0.011	0.004	0.06
							40203761	28.46 - 29.46 (m)	0.00153	12.8	0.0005	0.0008	0.001	0.002	0.05
							40203762	29.46 - 30.46 (m)	0.000306	20.4	0.0005	0.0035	0.001	0.01	0.13
29.46	33.31	Diabase	Fine grained mafic unit distinctly different texture than other intrusive mafic units. Mafic phase likely pyroxene. 1% sulphide. Few <1mm thin calcite veins and a micro fault with 1cm sinistral displacement present at 33.28 \End Log	29.46-33.31m Moderate Calcite Patchy	29.46-33.31m 0.8% Patchy Pyrite 0.2% Disseminated Chalcopyrite		40203764	30.46 - 31.46 (m)	0.000345	14.4	0.0005	0.0033	0.001	0.008	0.13
							40203766	31.46 - 32.46 (m)	0.00029	7.9	0.0005	0.0034	0.001	0.011	0.15
							40203767	32.46 - 33.21 (m)	0.000864	25.2	0.0005	0.003	0.001	0.006	0.16
							40203769	33.21 - 34.21 (m)	0.00697	53.9	0.0005	0.0026	0.001	0.006	0.3
							40203770	34.21 - 35.21 (m)	0.0067	44.6	0.0005	0.0021	0.001	0.005	0.22
33.31	53.64	Schist	Foliated biotite schist with variable bt content approx 30 to 60%. Common bands of coarse to pegmatitic quartz diorite and pegmatitic granite averaging 5cm thick. 0.3% dess. to blebby sulphides. Sharp contacts. \End Log	33.31-53.64m Trace Actinolite Selective	33.31-53.64m 0.2% Patchy Pyrite 0.1% Disseminated Pyrite		40446632	35.21 - 37 (m)	0.008	54	0.0005	0.0024	0	0.001	0.32
							40446633	37 - 39 (m)	0.0079	50	0.0005	0.0023	0	0.001	0.21
							40446634	39 - 41 (m)	0.0071	56	0.0005	0.0026	0	0.001	0.31

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.06									
						0.02	0.04									
33.31	53.64	Schist	Foliated biotite schist with variable bt content approx 30 to 60%. Common bands of coarse to pegmatitic quartz diorite and pegmatitic granite averaging 5cm thick. 0.3% diss. to blebby sulphides. Sharp contacts. \End Log	33.31-53.64m Trace Actinolite Selective	33.31-53.64m 0.2% Patchy Pyrite 0.1% Disseminated Pyrite			40446634	39 - 41 (m)	0.0071	56	0.0005	0.0026	0	0.001	0.31
								40446635	41 - 43 (m)	0.0067	49	0.0005	0.0022	0	0.001	0.24
								40446636	43 - 45 (m)	0.0052	39	0.0005	0.0017	0	0	0.16
								40417089	45 - 51 (m)	0.00637	50.9	0.001	0.0021	0.012	0.004	0.25
53.64	54.24	Granite	Very coarse to pegmatitic granite with 5% patchy biotite. 0.1% pyrite. Sharp contacts. \End Log	53.64-54.24m Weak Saussuritic Patchy	53.64-54.24m 0.1% Disseminated Pyrite			40417091	51 - 57 (m)	0.00596	43.1	0.002	0.0018	0.003	0.006	0.23
								40417092	57 - 63 (m)	0.00632	48	0.001	0.0019	0.001	0.004	0.22
54.24	72.84	Schist	Fine- to medium-grained biotite schist with locally variable amounts of bt 30 to 80%. 0.1% diss sulphide. Common quartz diorite bands with >1cm biotite rims. Green coloured weakly magnetic mafic band at 68.29 to 68.31 m. \End Log	54.24-72.84m Moderate Chloritic Patchy	54.24-72.84m 0.1% Disseminated Pyrite			40417093	63 - 69 (m)	0.00624	46.9	0.001	0.0018	0.001	0.005	0.23
								40417094	69 - 72.84 (m)	0.00911	52.9	0.001	0.0022	0.002	0.006	0.25
72.84	75.07	Diorite	Diorite with 12cm of coarse pegmatitic granite at the top of the unit. Granite also present as bands in the unit. Diorite has 25% mafic bt and 1% disseminated and stringers of sulphide. Sharp contacts. \End Log	72.84-75.07m Weak Chloritic Patchy	72.84-75.07m 0.8% Vein Pyrite 0.2% Disseminated Pyrite			40417095	72.84 - 75 (m)	0.000669	38.6	0.001	0.0004	0.009	0.005	0.2
75.07	77.13	Schist	Foliated fine- to medium-grained biotite schist with few greissic bands of fine to med. quartz and plagioclase. 0.5% sulphide blebs. \End Log	75.07-77.13m Weak Chloritic Patchy	75.07-77.13m 0.5% Patchy Pyrite			40417096	75 - 77.13 (m)	0.00525	46.3	0.001	0.0016	0.001	0.004	0.25
77.13	80.13	Granite	v. coarse to pegmatitic granite unit. 5% mafic biotite associates with associated fine patches of pyrite (0.1%). Patchy magnetite common. Sharp contact with overlying unit and gradual contact with underlying unit. \End Log	77.13-80.13m Weak Saussuritic Patchy	77.13-80.13m 0.1% Blebby Pyrite			40417097	77.13 - 80.13 (m)	0.000146	1	0.001	0.0001	0.003	0.002	0.01
80.13	82.7	Granodiorite	Coarse to pegmatitic granodiorite with few 10cm bands of biotite schist in the unit. 30% biotite and less than 0.05% sulphide in the sample (one bleb visible in core). Gradual conc at top and sharp contact at bottom of unit. \End Log	80.13-82.7m Weak Saussuritic Patchy	80.13-82.7m 0.05% Blebby Pyrite			40417098	80.13 - 82.7 (m)	0.00161	18.7	0.001	0.0005	0.001	0.002	0.06
82.7	85.11	Schist	Foliated biotite schist with 0.2% disseminated pyrite and ~40% biotite. 1cm coarse quartz bed along foliation. \End Log	82.7-85.11m Moderate Saussuritic Fracture	82.7-85.11m 0.2% Disseminated Pyrite			40417099	82.7 - 85.11 (m)	0.00617	70.3	0.001	0.0019	0.009	0.005	0.22
85.11	87.71	Diorite	Pegmatitic quartz diorite with bands of secondary biotit with associated very fine 0.1% pyrite. Sharp contacts with surrounding units. 15% biotite with localized abundances. \End Log	85.11-87.71m Trace Saussuritic Patchy	85.11-87.71m 0.1% Blebby Pyrite			40417101	85.11 - 87.71 (m)	0.000732	13.8	0.001	0.0002	0.001	0.006	0.02
87.71	102.42	Schist	Fine- to medium-grained biotite schist and quartz-rich biotite schist with up to 40cm bands of diorite with 0.5% patchy interstitial pyrite. Biotite in schist varies from 15% to 40% with secondary biotite proximal to diorite bands. 0.1% pyrite in schist. \End Log	87.71-102.42m Moderate Chloritic Fracture	87.71-102.42m 0.1% Disseminated Pyrite			40417102	87.71 - 93 (m)	0.00636	49.6	0.001	0.0019	0.006	0.005	0.2

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.06								
						0.02	0.04								
87.71	102.42	Schist	Fine- to medium-grained biotite schist and quartz-rich biotite schist with up to 40cm bands of diorite with 0.5% patchy interstitial pyrite. Biotite in schist varies from 15% to 40% with secondary biotite proximal to diorite bands. 0.1% pyrite in schist. \End Log	87.71-102.42m Moderate Chloritic Fracture	87.71-102.42m 0.1% Disseminated Pyrite		40417102	87.71 - 93 (m)	0.00636	49.6	0.001	0.0019	0.006	0.005	0.2
102.42	103.28	Granite	V. coarse to pegmatitic granite unit with sharp contacts in the schist. 0.1% pyrite. <5% biotite. \End Log	102.42-103.28m Weak Calcite Blebs	102.42-103.28m 0.1% Interstitial Pyrite		40417103	93 - 99 (m)	0.00647	47.1	0.002	0.002	0.009	0.002	0.23
103.28	113.51	Schist	Foliated medium-grained biotite schist with common sometimes boudinaged bands of quartz and calcite averaging 1cm. 20% mafic bt and 0.1% pyrite. \End Log	103.28-113.51m Weak Chloritic Fracture	103.28-113.51m 0.1% Disseminated Pyrite		40417104	99 - 105 (m)	0.00416	5.4	0.003	0.0012	0.007	0.005	0.11
113.51	114.41	Tonalite	Coarse-grained to pegmatitic tonalite with a composition of quartz, plag. and 5% biotite. <0.1% sulphide associated with the neighbouring schist. Sharp contacts. \End Log	113.51-114.41m Weak Saussuritic Patchy	113.51-114.41m 0.1% Blebby Pyrite		40417105	105 - 111 (m)	0.00601	27.4	0.001	0.0017	0.001	0.004	0.14
114.41	116.56	Schist	Foliated 50% biotite schist with a darker medium- to coarse-grained zone from 114.41 to 114.83m. No discernable sulphide. Very fine sulphide 0.1% local to the upper contact. \End Log	114.41-116.56m Moderate Chloritic Pervasive	114.41-116.56m 0.1% Blebby Pyrite		40417106	111 - 117 (m)	0.01175	39.4	0.002	0.002	0.001	0.002	0.17
116.56	117.65	Granodiorite	Coarse-grained to pegmatitic granodiorite with 10% interstitial biotite. Little pegmatitic K-feldspar present in the sample. 0.1% sulphides local to the sharp contacts with the neighboring schist. \End Log	116.56-117.65m Weak Saussuritic Patchy	116.56-117.75m 0.1% Blebby Pyrite		40417107	117 - 123 (m)	0.00403	32.4	0.002	0.0014	0.002	0.005	0.15
117.65	127.23	Schist	Foliated fine- to medium-grained biotite schist. 35% mafic bt and trace py related to secondary bt. Brecciated diorite zones present from 120.30 to 120.75 and from 122.18 to 122.62. \End Log	117.65-127.23m Moderate Saussuritic Replacement	117.75-127.23m 0.01% Disseminated Pyrite		40417108	123 - 128.95 (m)	0.00559	46.3	0.003	0.0017	0.005	0.005	0.2
127.23	128.2	Diorite	Coarse-grained to pegmatitic partially brecciated quartz diorite. Localized 25% bt more common in brecciated parts. 0.2% pyrite. \End Log	127.23-128.2m Moderate Saussuritic Patchy	127.23-128.2m 0.2% Patchy Pyrite		40417109	128.95 - 130.67 (m)	0.000237	3	0.002	0.0001	0.003	0.007	0.01
128.2	128.95	Schist	Medium-grained biotite schist with <1cm calcite and quartz bands. 30% mafic bt and trace diss. py. Rubbly zone from 131.60 to 131.90m with high chlorite. \End Log	128.2-128.95m Moderate Chloritic Fracture	128.2-128.95m 0.01% Disseminated Pyrite		40417110	130.67 - 132.63 (m)	0.00653	44.2	0.002	0.002	0.004	0.004	0.2
128.95	130.67	Diorite	Coarse-grained quartz diorite with 20-30% biotite and 0.1% disseminated sulphide. Sharp contacts and patchy areas of local high saussuritic alteration. \End Log	128.95-130.67m Weak Saussuritic Patchy	128.95-130.67m 0.01% Disseminated Pyrite		40417111	132.63 - 136 (m)	0.000189	2.3	0.002	0.0001	0.001	0.007	0.01
130.67	132.63	Schist	Foliated medium-grained biotite schist with 40% mafic bt. 3cm bands of quartz with adjacent biotite bands common. 0.2% diss py. \End Log	130.67-132.63m Moderate Chloritic Pervasive	130.67-132.63m 0.01% Disseminated Pyrite		40417112	136 - 141.56 (m)	0.00294	20.9	0.002	0.001	0.001	0.006	0.08
132.63	137.14	Diorite	Coarse-grained tonalite with 20-30% biotite and 0.1% disseminated sulphide. Local areas of high biotite and common secondary biotite veins. \End Log	132.63-137.14m Moderate Saussuritic Patchy	132.63-137.14m 0.1% Disseminated Pyrite		40417113	141.56 - 142.59 (m)	0.000246	1.2	0.002	0.0002	0.001	0.004	0.01
137.14	138.15	Schist	Foliated biotite schist with variable bt content (5% to 35% ) in foliated bands. Trace sulphides. Sharp contacts with neighboring lithologies. Bands of medium- to coarse-grained quartz diorite. Epidote alteration band runs through the dio at 140.41. \End Log	137.14-138.15m Weak Chloritic Patchy	137.14-138.15m 0.2% Disseminated Pyrite		40417114	142.59 - 144.84 (m)	0.00479	35.6	0.002	0.0016	0.001	0.005	0.15
138.15	139.67	Tonalite	Coarse to pegmatitic tonalite with local patches of high biotite, overall 15% mafic bt. Trace sulphide near sharp contacts. \End Log	138.15-139.67m Trace Saussuritic Patchy	138.15-139.67m 0.1% Disseminated Pyrite										
139.67	141.56	Schist	Coarse-grained quartz diorite with 20-30% biotite and 0.1% disseminated sulphide. Sharp contacts and patchy areas of local high saussuritic alteration. \End Log	139.67-141.56m Strong Saussuritic Banded	139.67-141.56m 0.01% Disseminated Pyrite										
141.56	142.59	Tonalite	Foliated biotite schist with 40% bt and 0.2% sulphide. Common veins of calcite and quartz present. Sharp contacts and one 14cm granodiorite band at 143.15m. Boudinaged qtz vein at 144.50m \End Log	141.56-142.59m Weak Saussuritic Patchy	141.56-142.59m 0.01% Disseminated Pyrite										
142.59	144.84	Schist	Coarse-grained tonalite with 5% bt and patchy 0.1% sulphide. Medium-grained biotite schist from 146.18 to 146.50m. Sharp contacts. \End Log	142.59-144.84m Weak Calcite Vein	142.59-144.84m 0.1% Disseminated Pyrite 0.1% Blebby Pyrite										
144.84	147.34	Tonalite	Coarse-grained tonalite with 5% bt and patchy 0.1% sulphide. Medium-grained biotite schist from 146.18 to 146.50m. Sharp contacts. \End Log	144.84-147.34m Weak Saussuritic Banded	144.84-147.34m 0.1% Patchy Pyrite										

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.06									
						0.02	0.04									
144.84	147.34	Tonalite	Coarse-grained Tonalite with 5% bt and patchy 0.1% sulphide. Medium-grained biotite schist from 146.18 to 146.50m. Sharp contacts. \End Log	144.84-147.34m Weak Saussuritic Banded	144.84-147.34m 0.1% Patchy Pyrite			40417114	142.59 - 148 (m)	0.00479	35.6	0.002	0.0016	0.001	0.005	0.15
147.34	153.71	Schist	Strongly foliated biotite schist (30-40%) with common bands of quartz diorite averaging 2cm. These bands increase in frequency from 151 to 153.71 and reach up to 9cm. 0.1% disseminated sulphides present. \End Log	147.34-153.71m Moderate Chloritic Pervasive	147.34-153.71m 0.1% Disseminated Pyrite			40417115	148 - 154 (m)	0.00592	45.7	0.002	0.0019	0.001	0.004	0.2
153.71	154.76	Tonalite	Coarse-grained to pegmatitic tonalite with localized patches of biotite and overall 15% bt. Notable patch of sulphides at 154.12, overall 0.1% py. In schist unit frequently cutting 11cm bands of biotite schist. Sharp contacts. \End Log	153.71-154.76m Moderate Chloritic Fracture	153.71-154.76m 0.1% Patchy Pyrite			40417116	154 - 160 (m)	0.0101	47.8	0.002	0.0024	0.001	0.008	0.2
154.76	164.43	Schist	Medium-grained biotite schist with bands of 100%bt. On average the lith has 30-40% biotite. 0.1% diss py. med-coarse bands of qtz and granodiorite intrude along the foliation, ranging from 5cm thick to 40cm. 23cm of pegmatitic granodiorite at 161.48 \End Log	154.76-164.43m Strong Chloritic Pervasive	154.76-164.43m 0.1% Disseminated Pyrite			40417117	160 - 165 (m)	0.0123	54	0.002	0.0029	0.001	0.006	0.21
164.43	165	Tonalite	Pegmatitic tonalite with interstitial fine to very fine biotite. No visible sulphide. Sharp contacts. EOH. \End Log	164.43-165m Moderate Chloritic Interstitial	164.43-165m 0% Absent Pyrite											

HoleID **QTBL0012**

Claim #	228330	Hole Type	Diamond	Sampled By	Conner Arts
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	666931.25	Hole Diameter	NQ	Casing Depth (m)	12
Northing	5401358.55	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	330.6405	Drill Rig	NW	Sample Count	80
Dip	45	Start Date	30-Jun-2022	Assay Count	80
Total Length (m)	147.4	End Date	02-Jul-2022	Overburden (m)	11.49
Location	228330	Log Date	19-Jul-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Conner Arts	Hole Condition	Dry

Scale 1:200

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.03									
						0.01 0.02									
0	11.49	Overburden	Not recovered overburden \End Log Medium- to fine-grained quartz diorite with low biotite (<5%) and no visible sulphides. Irregular sharp contact with underlying unit. Natural fractures in rock healed by alteration. \End Log												
11.49	11.93	Diorite	Coarse-grained to pegmatitic granodiorite with 5-10% biotite with localized mafic bands hosting the mineralization. 0.5% patchy pyrite located in the biotite patches and bands. Sharp contacts. \End Log	11.49-11.93m Strong Saussuritic Patchy											
11.93	12.64	Granodiorite	Strongly foliated medium- to fine- grained biotite schist with ~80% biotite. 0.1% sulphides along the contacts with neighboring intrusives. Gradual contacts. \End Log	11.93-12.64m Weak Chloritic Replacement	11.93-12.64m 0.5% Patchy Pyrite		40417119	11.49 - 11.93 (m)	0.00016	32.3	0.002	0.0002	0.001	0.006	0.13
12.64	13.27	Schist	Coarse- grained to pegmatitic granite with 5-10% biotite. Biotite formed interstitially between larger feldspars. Sharp contacts. \End Log	12.64-13.27m Strong Chloritic Pervasive			40417121	11.93 - 12.64 (m)	0.000977	40.8	0.002	0.0005	0.001	0.004	0.19
13.27	14.65	Granite	Medium-grained granodiorite with few coarse k-feldspar bands. 30% biotite, no visible sulphide. Sharp contacts. \End Log	13.27-14.65m Weak Saussuritic Patchy			40417122	12.64 - 13.27 (m)	0.0299	3.4	0.002	0.005	0.001	0.005	0.02
14.65	15.43	Granodiorite	Coarse-grained to pegmatitic granite with localized interstitial biotite, overall 5% biotite. No apparent mineralization. Natural fracture at 16m depth has strong localized epidote alteration. \End Log	15.43-17.81m Strong Epidote Fracture	15.43-17.31m 0.01% Disseminated Pyrite		40417123	13.27 - 14.65 (m)	0.000376	7.8	0.002	0.0002	0.001	0.004	0.05
15.43	17.31	Granite	Medium-grained granodiorite with a coarse granitic composition at the bottom 10cm. 30% biotite, no visible sulphide. Sharp contacts. \End Log	20.28-26.73m Moderate Calcite Vein	20.28-26.73m 0.01% Disseminated Pyrite		40417124	14.65 - 15.43 (m)	0.00144	7.5	0.002	0.0007	0.001	0.004	0.04
17.31	18.15	Granodiorite	Foliated medium-grained biotite schist with common felsic bands ~1cm up to 10cm wide. Trace pyrite. 20-30% bt. Rubble zone @25.60m-25.80m. Calcite veins and some chlorite present. Sharp contact with diabase. \End Log	26.73-29.66m Moderate Calcite Vein	26.73-29.66m 1% Blebby Pyrite		40417125	15.43 - 17.31 (m)	0.00268	18.1	0.002	0.0009	0.001	0.004	0.08
18.15	19.03	Schist	Medium-grained granodiorite with few coarse k-feldspar bands. 30% biotite, no visible sulphide. Sharp contacts. \End Log	29.66-36.93m 0.01% Disseminated Pyrite			40417126	17.31 - 18.15 (m)	0.00113	13.8	0.002	0.0006	0.001	0.002	0.06
19.03	20.28	Granodiorite	Medium-grained biotite schist with few felsic bands. 50% biotite component and 0.2% diss py. \End Log				40417127	18.15 - 19.03 (m)	0.0149	46.7	0.002	0.0028	0.001	0.002	0.38
20.28	26.73	Schist	Medium-grained granodiorite with a coarse granitic composition at the bottom 10cm. 30% biotite, no visible sulphide. Sharp contacts. \End Log				40417128	19.03 - 20.28 (m)	0.00226	6.5	0.002	0.0011	0.001	0.002	0.1
26.73	29.66	Diabase	Medium-grained granodiorite with a coarse granitic composition at the bottom 10cm. 30% biotite, no visible sulphide. Sharp contacts. \End Log				40417129	20.28 - 23 (m)	0.00666	52.9	0.002	0.0024	0.001	0.005	0.31
29.66	36.93	Schist	Fine grained mafic unit distinctly different texture than other intrusive mafic units. Mafic phase likely pyroxene. Difficult to discern sulphide content due to tarnish. Red speckled sample could be sulphides. ~1% blebby sulphide. 1mm cal + epidote veins \End Log				40446637	23 - 25 (m)	0.0075	55	0.0005	0.0023	0	0.001	0.32
36.93	40.19	Granite	Medium-grained biotite schist (50% bio) with common ~2cm bands of felsic to intermediate intrusives. Chlorite bands also present. Trace pyrite associatd with the contacts with the intrusive bands. Biotite rims intrusive bands. \End Log				40203771	25 - 26 (m)	0.00759	43.5	0.001	0.0022	0.001	0.006	0.17
							40203772	26 - 26.73 (m)	0.01085	42	0.0005	0.0028	0.001	0.006	0.13
							40203773	26.73 - 27.73 (m)	0.000619	17.6	0.0005	0.0034	0.001	0.01	0.14
							40203774	27.73 - 28.73 (m)	0.000326	14.2	0.0005	0.0034	0.001	0.011	0.12
							40203776	28.73 - 29.66 (m)	0.000268	13.3	0.0005	0.0033	0.001	0.006	0.13
							40203777	29.66 - 30.66 (m)	0.00812	62.6	0.0005	0.0028	0.001	0.006	0.34
							40203778	30.66 - 31.66 (m)	0.00624	45.9	0.0005	0.0023	0.001	0.004	0.28
							40446638	31.66 - 33.66 (m)	0.0053	45	0.0005	0.0018	0	0.001	0.19
							40446639	33.66 - 35.66 (m)	0.0061	44	0.0005	0.002	0	0.001	0.18
							40446641	35.66 - 36.93 (m)	0.0063	46	0.0005	0.0019	0	0	0.19
							40446642	36.93 - 38.93 (m)	0.0005	2	0.0005	0.0001	0	0	0.01
							40417131	38.93 - 40.19 (m)	0.000241	1.1	0.002	0.0001	0.001	0.002	0.01



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03								
						0.01	0.02								
36.93	40.19	Granite	Coarse-grained to pegmatitic granodiorite to granite. Unit becomes more K-spar rich and increases in crystal size moving downhole. 10% biotite. Weak alt of plag. Secondary biotite behaves interstitially. \End Log	40.19-41.71m Weak Chloritic Pervasive			40417131	38.93 - 40.19 (m)	0.000241	1.1	0.002	0.0001	0.001	0.002	0.01
40.19	41.71	Schist	Foliated medium-grained biotite schist with ~30% biotite and no visible sulphide. Few calcite veins present along the fractures. \End Log	41.71-43.41m Moderate Saussuritic Patchy			40417132	40.19 - 41.71 (m)	0.00708	50.2	0.003	0.0023	0.001	0.006	0.2
41.71	43.41	Diorite	Pegmatitic diorite with localized patches of high bt. Overall 20% biotite. No visible sulphide present. Sharp contacts. \End Log	43.41-48.82m Moderate Chloritic Pervasive			40417133	41.71 - 43.41 (m)	0.00048	1.7	0.001	0.0003	0.001	0.002	0.01
43.41	48.82	Schist	Foliated medium-grained biotite schist with common bands of intermediate intrusive. No visible sulphide. Bands can be up to 32cm wide. 40% biotite. Chlorite alt in healed fractures as well as pervasive. Sharp contacts. \End Log	48.82-50.1m Moderate Saussuritic Patchy			40417134	43.41 - 48.82 (m)	0.00813	52.2	0.002	0.0024	0.001	0.007	0.22
48.82	50.1	Diorite	Medium-grained foliated biotite schist with common bands of coarse grained felsic to intermediate intrusive parallel to and cutting foliation. Trace sulphide proximal to intrusive contacts and overall 40% sulphide. \End Log	50.1-58.27m Moderate Chloritic Pervasive			40417135	48.82 - 50.1 (m)	0.00037	1.9	0.002	0.0002	0.001	0.005	0.03
50.1	58.27	Schist	Medium- to coarse-grained tonalite with few pegmatitic grains at the bottom of the unit. 20% biotite. ~0.3% sulphides associated with the sharp contacts and interstitial space filled with biotite. Potential Po (weakly magnetic blebs). Few biotite lenses. Weak interstitial calcite. \End Log	58.27-59.36m Weak Calcite Interstitial	58.27-59.36m 0.3% Patchy Pyrite 0.05% Patchy Pyrrhotite		40417136	50.1 - 56 (m)	0.00548	46.2	0.003	0.0021	0.001	0.002	0.21
58.27	59.36	Tonalite	Medium-grained foliated biotite schist with ~50% biotite. Trace pyrite associated with intrusive contacts. Common bands of intermediate to felsic intrusive ~5cm wide present. ~2mm calcite veins parallel to foliation present. Sharp contacts with intrusive \End Log	59.36-65.98m Weak Saussuritic Patchy	59.36-65.98m 0.01% Patchy Pyrite		40417137	56 - 58.27 (m)	0.00602	43.8	0.002	0.002	0.001	0.005	0.25
59.36	65.98	Schist	Coarse-grained to pegmatitic granite with high qty of interstitial biotite close to the upper contact. Bands of biotite common. 0.1% disseminated pyrite partially associated with biotite patches. \End Log	65.98-66.64m Moderate Calcite Interstitial	65.98-66.64m 0.1% Patchy Pyrite 0.01% Patchy Pyrrhotite		40417138	58.27 - 59.36 (m)	0.0025	54.2	0.002	0.0011	0.001	0.005	0.3
65.98	66.64	Granite	Medium- to coarse-grained strongly foliated quartz diorite strongly intergrown with schist with frequent plagioclase-rich bands. Foliation is defined by the biotite crystals. 0.1% sulphides associated with the foliated biotite. 40% biotite. Contains fold. \End Log	66.64-69.59m Weak Saussuritic Patchy	66.64-69.59m 0.01% Patchy Pyrite		40417139	59.36 - 63 (m)	0.00671	45.8	0.002	0.0021	0.001	0.002	0.2
66.64	69.59	Diorite	Medium-grained to pegmatitic granite with small amounts of magnetite, 5% biotite. Trace pyrite associated with bt and magnetite patches. Unit gets finer downhole and takes on a more granodioritic composition. \End Log	69.59-71.54m Weak Saussuritic Patchy	69.59-71.54m 0.01% Patchy Pyrite		40417140	63 - 65.98 (m)	0.01025	52.1	0.002	0.0024	0.001	0.004	0.23
69.59	71.54	Granite	Medium-grained foliated biotite schist with irregular magnetic bands. These bands are moderately magnetic. No apparent mineralization ~20% biotite. Foliation parallel veins of calcite present. Felsic bands also present. \End Log	71.54-75.64m Weak Saussuritic Patchy	71.54-75.64m 0.01% Patchy Pyrite		40417141	65.98 - 66.64 (m)	0.000784	33.9	0.002	0.0004	0.001	0.004	0.17
71.54	75.64	Schist	Medium-grained to pegmatitic granite with common biotite (10%) as an interstitial phase. Trace pyrite associated with the biotite rich bands. Sharp contacts. \End Log	75.64-77.21m Moderate Calcite Interstitial	75.64-77.21m 0.1% Patchy Pyrite 0.01% Patchy Pyrrhotite		40417142	66.64 - 69.59 (m)	0.00332	39.4	0.002	0.0013	0.001	0.002	0.38
75.64	77.21	Granite	Medium-grained foliated biotite schist. 0.5% patchy and disseminated pyrite present to 81.75m. After 82m, sulphides are interstitial and ~2% ~40% biotite veins of calcite both cut and are parallel to foliation. Chlorite in healed fractures. ~3cm felsic bands also present. The contact with the underlying mafic is gradual. \End Log	77.21-82.6m Weak Saussuritic Patchy	77.21-82.6m 0.01% Patchy Pyrite		40417143	69.59 - 71.54 (m)	0.000547	5.3	0.002	0.0002	0.001	0.002	0.03
77.21	82.6	Schist	Foliated medium-grained gabbro with foliation parallel mineralized veins for a total of ~5% sulphide (po & cpy). The gabbro is highly intergrown with the neighboring schist such that only 82.60-82.90m is pure gabbro. 82.90m - 83.25 is 75% gabbro 25% sch. \End Log	82.6-83.25m Weak Chloritic Patchy	82.6-83.25m 0.5% Patchy Pyrite 1.5% Interstitial Chalcopyrite 0.5% Patchy Pyrrhotite		40417144	71.54 - 75.64 (m)	0.00742	56.6	0.002	0.0024	0.001	0.005	0.24
82.6	83.25	Gabbro	Medium-grained biotite schist of 20-30% biotite variable. Trace diss. pyrite in the sample. Commonly cut by felsic to intermediate pegmatite. Sample has uncommon bands of elevated magnetite. Additionally, the sample has bands of biotite. \End Log	83.25-98.72m Weak Chloritic Patchy	83.25-98.72m 0.01% Patchy Pyrite		40417145	75.64 - 77.21 (m)	0.000238	1.8	0.002	0.0002	0.001	0.004	0.01
83.25	98.72	Schist					40417146	77.21 - 78 (m)	0.00378	35.9	0.002	0.0014	0.003	0.005	0.17
							40446643	78 - 80 (m)	0.0063	45	0.0005	0.002	0.002	0.001	0.19
							40203779	80 - 81 (m)	0.00606	41.7	0.0005	0.0021	0.001	0.004	0.15
							40203780	81 - 82 (m)	0.0478	909	0.001	0.0033	0.01	0.008	0.55
							40203781	82 - 82.6 (m)	0.16	4,480	0.072	0.0071	0.001	0.004	0.94
							40203782	82.6 - 83.1 (m)	0.254	11,350	0.258	0.01	0.001	0.005	1.89
							40203785	83.1 - 83.6 (m)	0.0429	1,355	0.01	0.0041	0.002	0.009	0.44
							40203787	83.6 - 84.6 (m)	0.00652	87.3	0.0005	0.0022	0.001	0.004	0.17
							40203788	84.6 - 85.6 (m)	0.00556	115.5	0.0005	0.002	0.001	0.002	0.17
							40446644	85.6 - 87.6 (m)	0.0066	50	0.0005	0.0019	0	0	0.27
							40446645	87.6 - 89.6 (m)	0.0059	46	0.0005	0.0017	0	0	0.21
							40446646	89.6 - 91.6 (m)	0.0064	40	0.001	0.0019	0	0.001	0.15
							40446647	91.6 - 93.6 (m)	0.0058	44	0.0005	0.0017	0	0	0.22

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03								
						0.01	0.02								
83.25	98.72	Schist	Medium-grained biotite schist of 20-30% biotite variable. Trace diss. pyrite in the sample. Commonly cut by felsic to intermediate pegmatite. Sample has uncommon bands of elevated magnetite. Additionally, the sample has bands of biotite. \End Log	83.25-98.72m Moderate Chloritic Banded	83.25-98.72m 0.01% Disseminated Pyrite		40446647	91.6 - 93.6 (m)	0.0058	44	0.0005	0.0017	0	0	0.22
							40417148	93.6 - 96 (m)	0.00689	62.7	0.002	0.0022	0.001	0.007	0.25
							40417149	96 - 98.72 (m)	0.00612	64.3	0.002	0.0021	0.004	0.007	0.31
98.72	102.65	Granite	Medium-grained to pegmatitic granite with thick 2-3cm patches of biotite. Compositionally varies from granite to granodioritic and a patch of biotite schist present at 99.23-99.48m. No apparent sulphides. Sharp contacts. \End Log				40417151	98.72 - 101 (m)	0.0012	7	0.002	0.0004	0.001	0.002	0.03
102.65	104.93	Schist	Medium-grained foliated biotite schist with 20% bt. No apparent mineralization. Few calcite veins and biotite rich bands. Sharp contacts. 103.08-143.43 is a medium-grained granodiorite cutting the unit. \End Log				40417152	101 - 102.65 (m)	0.000198	1.1	0.002	0.0002	0.002	0.004	0.01
104.93	106	Tonalite	Coarse-grained to pegmatitic tonalite with patchy biotite (5%). Trace disseminations of pyrite. 1cm patch of pyrite at the lower contact. \End Log		104.93-106m 0.01% Patchy Pyrite		40417153	102.65 - 104.93 (m)	0.00346	11.6	0.002	0.001	0.002	0.008	0.06
106	107.63	Schist	Medium-grained foliated biotite schist with few bands of felsic intrusive. 30% biotite. No apparent mineralization. Sharp contacts with intrusives. \End Log				40417154	104.93 - 106 (m)	0.000425	15.2	0.002	0.0002	0.004	0.006	0.08
107.63	108.76	Granite	Coarse-grained to pegmatitic granite with one 9cm band of metasediment. 20% biotite occurring interstitially between coarser quartz and feldspar crystals. Trace sulphides are present in these biotite patches. \End Log		107.63-108.76m 0.01% Patchy Pyrite		40417155	106 - 107.63 (m)	0.00413	18.4	0.002	0.0013	0.006	0.006	0.13
108.76	111.46	Schist	Medium-grained foliated biotite schist with few bands of felsic intrusive avg 3cm up to 10cm. 25% biotite. No apparent mineralization. Sharp contacts with intrusive. \End Log				40417156	107.63 - 108.76 (m)	0.000599	1.1	0.002	0.0003	0.001	0.006	0.01
111.46	113.4	Granite	Coarse-grained to weakly pegmatitic granite with ~30% biotite. No apparent mineralization. Moderate saussurization of plagioclase feldspar. Sharp contacts with metased. \End Log	111.46-113.4m Moderate Saussuritic Patchy			40417157	108.76 - 111.46 (m)	0.00516	39.7	0.002	0.0017	0.001	0.007	0.2
113.4	115.21	Schist	Foliated medium-grained biotite schist with few bands of tonalite up to 9cm wide. Trace disseminated sulphide. Few calcite veins have been fractured. Sharp contacts. \End Log				40417158	111.46 - 113.4 (m)	0.000171	0.9	0.002	0.0001	0.008	0.007	0.01
115.21	116.14	Tonalite	Medium-grained to pegmatitic tonalite with 30%bt content and strong localized saussuritic alteration. Patchy 0.1% pyrite proximal to the lower contact. Sharp contacts. Unit is medium-coarse towards top and coarse-peg towards bottom. \End Log	115.21-116.14m Moderate Calcite Interstitial	115.21-116.14m 0.1% Patchy Pyrite		40446648	113.4 - 115.21 (m)	0.0109	55	0.0005	0.0023	0	0.001	0.26
116.14	117	Schist					40203789	115.21 - 116.14 (m)	0.00316	6.2	0.0005	0.0006	0.001	0.002	0.04
117	117.43	Gabbro					40203790	116.14 - 117 (m)	0.00966	50.7	0.0005	0.0025	0.001	0.005	0.26
							40203791	117 - 117.43 (m)	0.00674	56.6	0.0005	0.0024	0.001	0.002	0.26
							40203793	117.43 - 118.43 (m)	0.00507	43.5	0.001	0.0018	0.002	0.005	0.23
							40203794	118.43 - 119.43 (m)	0.00664	46.5	0.0005	0.0023	0.001	0.006	0.21
							40446649	119.43 - 121.43 (m)	0.0068	48	0.0005	0.002	0	0.001	0.21
117.43	128.51	Schist	Foliated medium-grained biotite schist with few 1cm bands of tonalitic intrusive and 25%bt. No apparent sulphides. Few calcite veins have been fractured. Sharp contacts. \End Log		117.43-128.51m 0.01% Patchy Pyrite		40446651	121.43 - 123.43 (m)	0.0059	46	0.0005	0.0019	0	0	0.2
							40446652	123.43 - 125.43 (m)	0.0062	63	0.0005	0.002	0	0	0.26
							40446653	125.43 - 127.43 (m)	0.0055	49	0.001	0.0018	0	0	0.26
							40417159	127.43 - 128.51 (m)	0.00614	45.7	0.002	0.0019	0.005	0.007	0.2
							40417161	128.51 - 132 (m)	0.000373	3.7	0.002	0.0002	0.001	0.008	0.03
128.51	139.89	Granodiorite	Coarse-grained to pegmatitic granodiorite with ~30% interstitial bt. No apparent sulphides. 3 <30cm biotite schist occurrences in unit. Patchy areas of high saussuritic alt. Calcite infill of natural fractures. \End Log	128.51-139.89m Strong Saussuritic Patchy			40417162	132 - 135 (m)	0.000603	2.8	0.002	0.0003	0.001	0.008	0.02
							40417163	135 - 138 (m)	0.000284	1.5	0.002	0.0002	0.005	0.004	0.01
							40417164	138 - 139.89 (m)	0.000438	4	0.001	0.0002	0.001	0.004	0.02
139.89	140.56	Schist	Medium-grained biotite schist with ~25% bt. No apparent sulphides. Sharp contacts. Weak interstitial calcite. \End Log				40417165	139.89 - 140.56 (m)	0.00529	41.6	0.002	0.0016	0.006	0.008	0.2
140.56	144	Tonalite	Coarse-grained quartz rich tonalite unit. 10% biotite. No apparent mineralization. Few bands of biotite. Sharp contacts. \End Log				40417166	140.56 - 143 (m)	0.000165	0.6	0.002	0.0001	0.001	0.005	0.01
144	147.4	Schist	Medium-grained biotite schist with common bands of biotite and tonalitic intrusive avg 2cm in the unit. Sharp contacts. Trace pyrite associated with biotite bands. Patchy calcite alt. \End Log	144-147.4m Weak Calcite Patchy			40417167	143 - 144 (m)	0.00358	26.4	0.002	0.0011	0.001	0.011	0.14
							40417168	144 - 146 (m)	0.00579	41.1	0.004	0.0018	0.006	0.008	0.23

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.03									
						0.01	0.02									
144	147.4	Schist	Medium-grained biotite schist with common bands of biotite and tonalitic intrusive avg 2cm in the unit. Sharp contacts. Trace pyrite associated with biotite bands. Patchy calcite alt. End Log	144-147.4m Weak Calcite Patchy				40417168	144 - 146 (m)	0.00579	41.1	0.004	0.0018	0.006	0.008	0.23
								40417169	146 - 147.4 (m)	0.00689	50.4	0.002	0.0021	0.001	0.005	0.26



HoleID **QTBL0013**

Claim #	311979	Hole Type	Diamond	Sampled By	Nina Buchanan
Project	QUETICO	SurveyType		Hole Status	CompletedCapped
Easting	667529.16	Hole Diameter	NQ	Casing Depth (m)	1
Northing	5401483.54	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	14.1405	Drill Rig	NW	Sample Count	139
Dip	75	Start Date	02-Jul-2022	Assay Count	139
Total Length (m)	252.16	End Date	06-Jul-2022	Overburden (m)	1.27
Location	311979	Log Date	01-Aug-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Nina Buchanan	Hole Condition	Dry

Scale 1:20

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.21									
						0.07 0.14									
0	1.27	OVB													
1.27	7.06	Hornblendite	Varitextured, ~95% subhedral (elongate to stubby) hornblende with weak chlorite alt. Variable amounts (0-5%) of interstitial anhedral plagioclase (in 5% section has weak hematite staining). Rare clusters of f-g subhedral lathic plagioclase. 0.5-5% bt. Rare 1mm wide irregular/wispy calcite veins. 0.2mm to 10cm wide irregular tonalite bands with moderate calcite alt, weak hematite staining of feldspar and euhedral/subhedral elongate hornblende. Some blebs of tonalite within unit too. May represent mixing between ultramafic and tonalite. 0.5 to 3.5mm wide irregular section of biotite schist, ~0.1 to 1% vf to v-g disseminated anhedral pyrite. Rare association with wispy granite "bands". End Log		1.27-7.06m 0.1% Disseminated Pyrite										
							40446655	1.27 - 2.8 (m)	0.0424	122	0.0005	0.0061	0	0	0.07
							40446656	2.8 - 5.09 (m)	0.042	189	0.001	0.0059	0	0.001	0.18

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
1.27	7.06	Hornblendite	Varitextured. ~95% subhedral (elongate to stubby) hornblende with weak chlorite alt. Variable amounts (0-5%) of interstitial anhedral plagioclase (in 5% section has weak hematite staining). Rare clusters of f-g subhedral lathic plagioclase. 0.5-5% bt. Rare 1mm wide irregular/wispy calcite veins. 0.2mm to 10cm wide irregular tonalite bands with moderate calcite alt. weak hematite staining of feldspar and euhedral/subhedral elongate hornblende. Some blebs of tonalite within unit too. May represent mixing between ultramafic and tonalite. 0.5 to 3.5mm wide irregular section of biotite schist. ~0.1 to 1% vf to v-g disseminated anhedral pyrite. Rare association with wispy granite "bands". \End Log		1.27-7.06m 0.1% Disseminated Pyrite			40446656	2.8 - 5.09 (m)	0.042	189	0.001	0.0059	0	0.001	0.18
								40446657	5.09 - 7.09 (m)	0.0455	22	0.0005	0.0058	0	0.001	0.02
7.06	7.63	Schist	Biotite schist. Sharp upper contact with HBL. Partial melting and mixing between tonalite and SED present within 10cm of upper contact. 2mm to 1.5cm wide tonalite boudinaged bands present. Patches of weak hematite staining of feldspar in SED and TON. Few 1mm wide calcite veins. Sharp lower contact along fol. Trace f-g disseminated pyrite more abundant with depth. \End Log		7.06-7.63m 0.1% Disseminated Pyrite			40446658	7.09 - 7.63 (m)	0.0205	215	0.0005	0.0036	0	0	0.43
7.63	9.59	Hornblendite	Varitextured. ~95% anhedral hornblende with weak chlorite alt. 2-5% anhedral plagioclase and few clusters of subhedral plagioclase crystals. Few 1mm wide calcite veins. 0.5 to 2% f-g disseminated pyrite. 1.5 cm wide tonalite band with weak hematite staining at upper contact. Coarse-grained euhedral hornblende present within band. 2cm wide medium-grained tonalite with moderate calcite alt. Lower contact sharp. \End Log		7.63-9.59m 0.5% Disseminated Pyrite			40446659	7.63 - 9.59 (m)	0.0466	167	0.001	0.0065	0	0.001	0.22

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21								
						0.07	0.14								
7.63	9.59	Hornblendite	Varitextured. ~95% anhedral hornblende with weak chlorite alt. 2-5% anhedral plagioclase and few clusters of subhedral plagioclase crystals. Few 1mm wide calcite veins. 0.5 to 2% f-g disseminated pyrite. 1.5 cm wide tonalite band with weak hematite staining at upper contact. Coarse-grained euhedral hornblende present within band. 2cm wide medium-grained tonalite with moderate calcite alt. Lower contact sharp. \End Log		7.63-9.59m 0.5% Disseminated Pyrite		40446659	7.63 - 9.59 (m)	0.0466	167	0.001	0.0065	0	0.001	0.22
9.59	10.39	Tonalite	2 cm wide accumulation of c-g biotite along lower and upper contacts. Contacts are sharp. ~10-15% biotite in TON. Blocky subhedral plag and anhedral Qtz. 0.05-1% f-g disseminated pyrite associated with c-g biotite. 1% pyrite present at upper contact. 0.5% pyrite at lower contact. ~2% m to c-g magnetite throughout the unit concentrated m-g at upper contact. Weak hematite staining of plagioclase along grain boundaries. \End Log		9.59-10.39m 0.05% Disseminated Pyrite		40446661	9.59 - 10.39 (m)	0.0088	330	0.0005	0.0013	0	0	0.26
10.39	12.3	Hornblendite	Varitextured. Rare 1mm wide calcite veins. ~99% subhedral blocky hornblende with weak serpentine alt and irregular grain boundaries. ~1% bt. Lower contact sharp. 0.5% vt to f-g disseminated pyrite. \End Log		10.39-12.3m 0.5% Disseminated Pyrite		40446662	10.39 - 12.3 (m)	0.0513	147	0.0005	0.0067	0	0.001	0.19
12.3	13.27	Tonalite	5% m to c-g cubic magnetite throughout. Subhedral blocky plag with weak hematite staining. From 12.85 to 12.96m c to vc-g FHB band with sharp contacts and weak chlorite alt. 0.1% f-g disseminated pyrite in TON and FHB upper contact. From 13.16 to 13.27m is a diffuse zone of partial melting and mixing between TON and FHB with strongly aligned mins into 1mm wide bands. 4 x 4cm fragment of MGB in diffuse zone. 2mm to 1cm wide tonalite band wrapping around MGB fragment. Diffuse zone has weak to moderate in patches of hematite staining of feldspar. Sharp contact with diffuse zone and next unit. \End Log		12.3-13.27m 0.1% Disseminated Pyrite		40446663	12.3 - 13.27 (m)	0.0153	116	0.005	0.002	0	0	0.31
13.27	15.65	Hornblendite	Varitextured. 95% elongate m-g hbl and blocky c to vc-g hbl. 0.1% f-g disseminated pyrite. Weak serpentine alt increased intensity near contacts. Rare 1mm wide calcite veins. 5% bt. \End Log		13.27-15.65m 0.1% Disseminated Pyrite		40446664	13.27 - 14.41 (m)	0.0475	126	0.0005	0.0065	0	0	0.17
							40446665	14.41 - 15.65 (m)	0.0455	119	0.0005	0.0065	0	0.001	0.16

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)	
							0	0.21									
							0.07	0.14									
13.27	15.65	Hornblendite	Varitextured, 95% elongate m-g hbl and blocky c to vc-g hbl. 0.1% f-g disseminated pyrite. Weak serpentine alt increased intensity near contacts. Rare 1mm wide calcite veins. 5% bt. End Log		13.27-15.65m 0.1% Disseminated Pyrite				40446665	14.41 - 15.65 (m)	0.0455	119	0.0005	0.0065	0	0.001	0.16
15.65	17.5	Tonalite	Blocky 40% plagioclase with weak hematite alt around grain boundaries. Anhedral 25% qtz. 21-23% bt/ 10% chl some massive clusters present. 2% m to c-g cubic magnetite associated with bt/chl. Few magnetite crystals rimmed by qtz/plag. 0.1 to 2% f-g diss pyrite. 2% py at lower contact with next unit. c-g pyrite in 2-5mm wide discontinuous veins with plag/qtz. Few poikilitic peg feldspar crystals with chl inclusions. End Log		15.65-17.5m 0.1% Disseminated Pyrite				40446666	15.65 - 17.5 (m)	0.008	51	0.0005	0.0014	0	0	0.15
17.5	17.96	Hornblendite	Sharp upper and lower contacts. 0.5% anhedral plag. Subhedral lathic 98% hbl with weak chl alt. 1% bt. 0.5% vf-g disseminated pyrite. End Log		17.5-17.96m 0.5% Disseminated Pyrite				40446667	17.5 - 17.96 (m)	0.0467	68	0.0005	0.0063	0	0	0.06
17.96	21.93	Granite	At upper contact ~10 cm wide tonalite band with diffuse contact with f-g bt schist. Plag in TON band have weak hematite alt along grain boundaries. 16cm wide bt schist band after TON. 0.5% f-g disseminated, elongated blebs of pyrite. Within pyrite blebs vf-g magnetite crystals present. Bt schist sharp contact with GRT. Localized 0.5% m to vc-g magnetite crystals within GRT. 0.01% f-g disseminated py in GRT. 2-5% bt. Rare 1mm wide calcite vein. @ 19.39m f-g patchy epidote alt. End Log		18.1-18.26m 0.5% Blebby Pyrite				40446668	17.96 - 19.96 (m)	0.0025	38	0.0005	0.0005	0	0	0.07

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
17.96	21.93	Granite	At upper contact ~10 cm wide tonalite band with diffuse contact with f-g bt schist. Plag in TON band have weak hematite alt along grain boundaries. 16cm wide bt schist "band" after TON. 0.5% f-g disseminated/ elongated blebs of pyrite. Within pyrite blebs vf-g magnetite crystals present. Bt schist sharp contact with GRT. Localized 0.5% m to vc-g magnetite crystals within GRT. 0.01% f-g disseminated py in GRT. 2-5% bt. Rare 1mm wide calcite vein. @ 19.39m f-g patchy epidote alt. End Log					40446668	17.96 - 19.96 (m)	0.0025	38	0.0005	0.0005	0	0	0.07
								40446669	19.96 - 21.93 (m)	0.0007	5	0.0005	0.0001	0	0	0.02
21.93	22.78	Hornblendite	Varitextured. ~94% blocky hbl with weak serpentine alt. 5% bt. Sharp upper and lower contacts. 1% f-g diss py. End Log		21.93-22.78m 1% Disseminated Pyrite			40446671	21.93 - 22.78 (m)	0.0496	146	0.002	0.0064	0	0	0.24
					22.78-22.85m 0.1% Disseminated Pyrite											
22.78	24.42	Granite	Blocky feldspar. Anhedral qtz. 0.3% m-g magnetite crystals with bt typically at contacts. 2cm wide accumulation of c-g bt at upper contact. Less bt at lower contact. 0.1% f-g diss py near both contacts. Sharp contacts. Weak hematite alt near contacts. Trace hematite alt throughout. End Log		24.37-24.42m 0.1% Disseminated Pyrite			40446672	22.78 - 24.42 (m)	0.0014	11	0.0005	0.0003	0	0	0.03
24.42	32.48	Hornblendite	Varitextured. ~98% blocky hbl with weak serpentine alt. 0.5% anhedral plag. 1% bt. 4mm to 1.5cm wide plag/qtz band @ 32.66 with moderate patchy hematite alt and 5mm bleb of py. Few 1mm wide calcite veins. Few 2-3mm wide tonalite/granite bands. 0.5% vf to f-g diss py. End Log		24.42-32.48m 0.5% Disseminated Pyrite			40446673	24.42 - 26.42 (m)	0.0503	130	0.0005	0.0065	0	0	0.21



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07									
						0.14									
24.42	32.48	Hornblende	Varitextured, ~98% blocky hbl with weak serpentine alt. 0.5% anhedral plag. 1% bt. 4mm to 1.5cm wide plag/qtz band @ 32.66 with moderate patchy hematite alt and 5mm bleb of py. Few 1mm wide calcite veins. Few 2-3mm wide tonalite/granite bands. 0.5% vf to fg diss py. End Log		24.42-32.48m 0.5% Disseminated Pyrite		40446673	24.42 - 26.42 (m)	0.0503	130	0.0005	0.0065	0	0	0.21
							40446674	26.42 - 28.42 (m)	0.0517	163	0.0005	0.0066	0	0.001	0.23
							40446675	28.42 - 30.42 (m)	0.0517	167	0.0005	0.0067	0	0	0.19
							40446676	30.42 - 32.48 (m)	0.0525	172	0.0005	0.0067	0	0	0.22

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
24.42	32.48	Hornblendite	Varitextured. ~98% blocky hbl with weak serpentine alt. 0.5% anhedral plag. 1% bt. 4mm to 1.5cm wide plag/qtz band @ 32.66 with moderate patchy hematite alt and 5mm bleb of py. Few 1mm wide calcite veins. Few 2-3mm wide tonalite/granite bands. 0.5% vf to f-g diss py. \End Log		24.42-32.48m 0.5% Disseminated Pyrite			40446676	30.42 - 32.48 (m)	0.0525	172	0.0005	0.0067	0	0	0.22
32.48	33.54	Granite	Varitextured. Finer-grained and bt-rich at contacts. 2-10% bt. Proximal to lower contact in bt-rich area 2% diss/blebby f-g/m-g py. 0.1% vf-g magnetite crystals with py. Feldspar has trace hematite alt at grain boundaries. \End Log		33.38-33.54m 2% Disseminated Pyrite			40446677	32.48 - 33.54 (m)	0.0044	52	0.0005	0.0009	0	0	0.15
33.54	34.8	Hornblendite	Varitextured. 97% blocky hbl with weak serpentine alt. ~1% anhedral f-g plag. 2% bt. 0.1% f-g diss py. Few 1mm wide calcite veins. 2mm and 1.5cm wide feldspar and calcite bands. \End Log		33.54-34.8m 0.1% Disseminated Pyrite			40446678	33.54 - 34.8 (m)	0.0538	153	0.001	0.0065	0	0.001	0.18
34.8	38.09	Granite	0.1% f-g diss py. Near lower contact ~0.5% f-g diss py. @ 35.18m m-g bleb of py within peg section. Feldspar in peg section have myrmekitic texture. ~5% bt. Weak hematite alt of feldspar throughout. <1mm wide bt/chl? black and cal veins. Sharp upper and lower contacts. Few m-g magnetite crystals at lower contact. \End Log		34.8-38.09m 0.1% Disseminated Pyrite			40446679	34.8 - 36.8 (m)	0.0005	10	0.0005	0.0001	0	0	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07									
						0.21									
34.8	38.09	Granite	0.1% f-g diss py. Near lower contact ~0.5% f-g diss py. @ 35.10m m-g bleb of py within peg section. Feldspar in peg section have myrmekitic texture. ~5% bt. Weak hematite alt of feldspar throughout. <1mm wide bychl? black and cal veins. Sharp upper and lower contacts. Few m-g magnetite crystals at lower contact. End Log		34.8-38.09m 0.1% Disseminated Pyrite		40446679	34.8 - 36.8 (m)	0.0005	10	0.0005	0.0001	0	0	0.02
							40446681	36.8 - 38.09 (m)	0.0011	15	0.0005	0.0002	0	0	0.06
							40446682	38.09 - 38.96 (m)	0.0392	39	0.0005	0.005	0	0	0.11
38.09	38.96	Hornblende	Varitextured. 2% subhedral lathic/anhedral plag. M-g hbl are lathic. C-g hbl are stubby. Both weak chl alt. 5% f-g bt. Common 2mm to 1cm wide c-g granitic discontinuous bands with weak patchy hematite. Wider bands surrounded by c-g bt. Few 1mm wide calcite veins discontinuous. Rare hematite alt of calcite veins. 3% f-g diss py within 9cm of upper contact. Sharp upper and lower contacts. End Log		38.09-38.18m 3% Disseminated Pyrite		40446683	38.96 - 39.52 (m)	0.0038	27	0.0005	0.0005	0.001	0	0.09
38.96	39.52	Tonalite	8cm wide zone of c-g bt at upper contact with HBL with 1cm wide m-g qtz-rich and feldspar band. Common m-g magnetite crystals in 8cm wide zone. Lower contact has 1.5cm wide f-g bt and qtz-rich area with sheared mins. Both upper and lower bt-rich zones have ~0.5-1% f-g diss py. ~5-8% c-g bt in TON. Weak hematite alt at grain boundaries of stubby plag crystals. Anhedral qtz. Upper contact sharp. Lower contact more diffuse. End Log		38.96-39.04m 1% Disseminated Pyrite		40446684	39.52 - 40.66 (m)	0.049	180	0.0005	0.0066	0	0	0.21
							40446685	40.66 - 41.81 (m)	0.0481	136	0.0005	0.0063	0	0	0.14
39.52	41.81	Hornblende	Varitextured. 1% vf to f-g diss py throughout. ~0.5% anhedral plag. ~97% blocky subhedral hbl with weak serpentine alt. c/vc-g have irregular grain boundaries. ~2% bt. 1-5mm wide feldspar/calcite/epidote vein with weak hematite alt. Lower contact is diffuse with bt-rich zone. End Log		39.51-39.52m 0.5% Disseminated Pyrite										

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
39.52	41.81	Hornblendite	Varitextured. 1% vf to f-g diss py throughout. ~0.5% anhedral plag. ~97% blocky subhedral hbl with weak serpentine alt. c/vc-g have irregular grain boundaries. ~2% bt. 1-5mm wide feldspar/calcite/epidote vein with weak hematite alt. Lower contact is diffuse with bt-rich zone. End Log		39.52-41.81m 1% Disseminated Pyrite			40446685	40.66 - 41.81 (m)	0.0481	136	0.0005	0.0063	0	0	0.14
41.81	42.55	Tonalite	0.5% f to m-g diss py in TON. Blocky plag with weak hematite alt along grain boundaries. 10-20% m-g bt. Diffuse contacts. Weak calcite alt in TON. End Log					40446686	41.81 - 42.56 (m)	0.0043	46	0.0005	0.0007	0	0	0.09
42.55	42.95	Hornblendite	Varitextured. HBL upper contact sharp. FHB lower contact diffuse. HBL has ~1% f-g diss py throughout. 0.5% f-g anhedral plag and blocky weak serpentine alt hbl with irregular grain boundaries. End Log		41.81-44.04m 0.5% Disseminated Pyrite			40446687	42.56 - 42.94 (m)	0.0491	142	0.0005	0.0063	0	0	0.19
42.95	44.04	Tonalite	0.5% f to m-g diss py in TON. Blocky plag with moderate hematite alt pervasive in crystals. 10-20% m-g bt. Brecciated upper contact with bt-matrix. Brecciation throughout. Lower contact not visible, possibly sharp. Weak calcite alt in TON. End Log					40446688	42.94 - 44.04 (m)	0.0048	45	0.0005	0.0008	0	0	0.14
44.04	44.9	Hornblendite	Weak/moderate calcite alt of blocky hbl with irregular grain boundaries and weak chl alt. ~8% bt. 0.5% vf to f-g diss py. 3cm wide granitic weak calcite alt band. Rare 1mm wide calcite vein. End Log		44.04-44.9m 0.5% Disseminated Pyrite			40446689	44.04 - 44.9 (m)	0.0428	111	0.0005	0.0055	0	0	0.16
44.9	45.8	Tonalite	Sharp upper contact ~1.5cm wide bt-rich zone. Lower contact is diffuse and ~25cm wide bt-rich zone. 0.1 to 3% vf to f-g diss py with accumulation in bt-rich zone proximal to lower contact. Very common 1-2mm wide calcite veins. Chl/bt veins brecciating TON from 45.18-45.37m. Weak patchy sericite alt of feldspar crystals proximal to bt. Moderate hematite alt patchy of feldspar. End Log		44.9-45.8m 0.1% Disseminated Pyrite			40446691	44.9 - 45.8 (m)	0.0099	147	0.0005	0.0014	0	0	0.44
45.8	51.42	Hornblendite	Varitextured. Abundant 1mm sized calcite veins from 45.8-46.39m. Rare for rest of unit. Weak to trace calcite alt of hbl throughout. Trace chl alt of hbl. M-g hbl are lathic. C/vc-g hbl are stubby with irregular grain boundaries. 0.5% f-g anhedral plag. 5-10% bt. 0.5-1.5% vf to f-g diss py. @ 50.48 c-g py cube. HBL is cut by 4mm to 25cm wide m-g to peg tonalite bands with weak/moderate hematite alt. Sharp lower contact. End Log		45.8-51.42m 1.5% Disseminated Pyrite			40446692	45.8 - 46.72 (m)	0.0376	101	0.001	0.0048	0	0	0.18

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
45.8	51.42	Hornblendite	Varitextured. Abundant 1mm sized calcite veins from 45.8-46.39m. Rare for rest of unit. Weak to trace calcite alt of hbl throughout. Trace chl alt of hbl. M-g hbl are lathic. C/vc-g hbl are stubby with irregular grain boundaries. 0.5% f-g anhedral plag. 5-10% bt. 0.5-1.5% vt to f-g diss py. @ 50.48 c-g py cube. HBL is cut by 4mm to 25cm wide m-g to peg tonalite bands with weak/moderate hematite alt. Sharp lower contact. End Log		45.8-51.42m 1.5% Disseminated Pyrite			40446692	45.8 - 46.72 (m)	0.0376	101	0.001	0.0048	0	0	0.18
								40446693	46.72 - 47.75 (m)	0.0444	128	0.001	0.0054	0	0	0.17
								40446694	47.75 - 49.7 (m)	0.0357	114	0.001	0.0046	0	0	0.22
								40446695	49.7 - 51.42 (m)	0.0525	153	0.0005	0.0065	0	0	0.21
51.42	52.07	Tonalite	0.1% f-g diss py. Weak patchy hematite alt of plag barely penetrates crystals. Anhedral Qtz. Sharp lower contact. ~1cm wide accumulation of m-g bt at both contacts. F-g subhedral magnetite crystals accumulated at both contacts. End Log		51.42-52.07m 0.1% Disseminated Pyrite			40446696	51.42 - 52.07 (m)	0.0035	15	0.0005	0.0005	0	0	0.04

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
51.42	52.07	Tonalite	0.1% f-g diss py. Weak patchy hematite alt of plag barely penetrates crystals. Anhedral Qtz. Sharp lower contact. ~1cm wide accumulation of m-g bt at both contacts. F-g subhedral magnetite crystals accumulated at both contacts. End Log		51.42-52.07m 0.1% Disseminated Pyrite			40446696	51.42 - 52.07 (m)	0.0035	15	0.0005	0.0005	0	0	0.04
								40446697	52.07 - 54.07 (m)	0.0522	157	0.0005	0.0066	0	0	0.23
52.07	56.94	Hornblendite	Varitextured. ~0.5% subhedral lathic plag. Trace chl alt of hbl. Hbl has irregular grain boundaries and stubby. ~1% bt. Rare 1mm wide calcite veins. Weak calcite alt of hbl. Two 6 and 9mm wide granitic bands with calcite alt. Diffuse lower contact. 0.5-1.5% vt to f-g diss py. End Log		52.07-56.94m 1.5% Disseminated Pyrite			40446698	54.07 - 55.44 (m)	0.0515	136	0.0005	0.0066	0	0	0.27
								40446699	55.44 - 56.94 (m)	0.0496	108	0.0005	0.0062	0	0	0.18

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21								
						0.07	0.14								
52.07	56.94	Hornblendite	Varitextured. ~0.5% subhedral lathic plag. Trace chl alt of hbl. Hbl has irregular grain boundaries and stubby. ~1% bt. Rare 1mm wide calcite veins. Weak calcite alt of hbl. Two 6 and 9mm wide granitic bands with calcite alt. Diffuse lower contact. 0.5-1.5% vf to f-g diss py. \End Log		52.07-56.94m 1.5% Disseminated Pyrite		40446699	55.44 - 56.94 (m)	0.0496	108	0.0005	0.0062	0	0	0.18
56.94	57.77	Tonalite	Few m-g localized magnetite crystals associated with bt. 0.2-1% vf to v-g diss py with bt. Variable amounts of qtz. In c/vc-g section almost no qtz. In m-g/c-g section ~25% qtz. Trace hematite alt patchy and localized. ~0.5-3cm wide section of HBL with diffuse contacts @57.55. Apparent sharp lower contact. \End Log		56.94-57.77m 0.2% Disseminated Pyrite		40446701	56.94 - 57.77 (m)	0.0051	46	0.0005	0.0007	0	0	0.12
57.77	58.54	Hornblendite	Varitextured. ~1% f-g anhedral plag. Trace cal alt of hbl. Weak serpentine alt of hbl. M-g hbl are lathic. C to vc-g hbl are stubby with irregular grain boundaries. ~94% hbl. ~5% bt. 0.2% vf to f-g diss py. Lower contact not visible. \End Log		57.77-58.54m 0.2% Disseminated Pyrite		40446702	57.77 - 58.54 (m)	0.0486	86	0.0005	0.0065	0	0	0.1
58.54	60.27	Schist	Bt schist mixing with granite to tonalite. @58.54 to 58.78m diffuse zone of intermixed m-g SED and m-g TON. Other contacts are sharp and very irregular. SED foliation wrapping around TON in sections. Some TON bands have been folded. 6.5 x 3.5cm wide HBL fragment @59.15m with sharp contact. M-g anhedral magnetite crystals associated with bt-rich zones proximal to GRT section. c-g GRT section from 58.78 to 59.15m. SED with bands of TON from 59.15 to 60.27m. ~0.5% vf to f-g diss py in SED and diffuse zone. \End Log		58.54-60.27m 0.5% Disseminated Pyrite		40446703	58.54 - 60.27 (m)	0.0077	67	0.0005	0.0015	0	0	0.2
60.27	60.92	Syenite	First 7cm is zone of m to c-g tonalite with weak hematite alt. TON cut by SYN sharp contact. ~3% bt. 0.01-0.5% vf-g diss py with bt. 0.5% py accumulated in bt-rich zone at bottom contact. \End Log		60.27-60.92m 0.01% Disseminated Pyrite		40446704	60.27 - 60.92 (m)	0.001	13	0.0005	0.0001	0	0	0.05
60.92	61.48	Tonalite	At upper contact 2 cm wide bt-rich zone with ~0.5% f-g magnetite crystals. 13cm wide zone of bt partially rimming individual feldspar crystals. 0.3% f-g diss py with bt. At end of unit bt aligned between bands of TON and magnetic. Lower contact not visible. Plag has trace hematite alt. \End Log		60.92-61.48m 0.3% Disseminated Pyrite		40446705	60.92 - 61.48 (m)	0.0039	45	0.0005	0.0008	0	0	0.17
61.48	64.38	Hornblendite	~2% anhedral f-g plag. Lathic to stubby/irregular hbl with trace-weak chl alt. 1-7mm wide qtz/feldspar/calcite bands. Bands from 64-64.38m have calcite alt halos surrounding bands. Diffuse lower contact. 0.1% vf-g diss py throughout. 5% bt. Irregular 7cm wide GRT zone with weak sericite alt and variable amounts of bt. 1cm wide GRT band proximal to lower contact. 1-2mm wide calcite veins from 64-64.38m. Some veins crossing. \End Log		61.48-64.38m 0.1% Disseminated Pyrite		40446706	61.48 - 63 (m)	0.0377	88	0.0005	0.0057	0	0	0.14

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
61.48	64.38	Hornblende	~2% anhedral f-g plag. Lathic to stubby/irregular pl with trace weak chl alt. 1-7mm wide qtz/feldspar/calcite bands. Bands from 64-64.38m have calcite alt halos surrounding bands. Diffuse lower contact. 0.1% vf-g diss py throughout. 5% bt. Irregular 7cm wide GRT zone with weak sericite alt and variable amounts of bt. 1cm wide GRT band proximal to lower contact. 1-2mm wide calcite veins from 64-64.38m. Some veins crossing. End Log		61.48-64.38m 0.1% Disseminated Pyrite			40446706	61.48 - 63 (m)	0.0377	88	0.0005	0.0057	0	0	0.14
								40446707	63 - 64.38 (m)	0.0403	97	0.0005	0.006	0	0	0.15
								40446708	64.38 - 66.38 (m)	0.0028	33	0.0005	0.0004	0	0	0.13
64.38	68.63	Granite	Varying amounts of qtz/plag/k-spar throughout. 1-5% bt. Trace hematite alt of feldspar. 10cm wide zone from 64.48-64.58m of cal/chl veins and weak sericite alt of feldspar and weak hematite alt. From 65.66 to 65.80m aligned bt-rich zone mixed with 1-2mm wide GRT bands with ~0.5% vf to f-g diss py and ~0.5% m-g subhedral magnetite crystals. 0.2% vf-g py in bt-rich zone at lower contact and trace m-g magnetite. Diffuse lower contact. End Log		64.38-68.63m 0.2% Disseminated Pyrite			40446709	66.38 - 67.5 (m)	0.0008	11	0.0005	0.0002	0	0	0.04



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07									
						0.14									
						0.21									
							40446709	66.38 - 67.5 (m)	0.0008	11	0.0005	0.0002	0	0	0.04
64.38	68.63	Granite	Varying amounts of qtz/plag/k-spar throughout. 1-5% bt. Trace hematite alt of feldspar. 10cm wide zone from 64.48-64.58m of cal/chl veins and weak sericite alt of feldspar and weak hematite alt. From 65.66 to 65.80m aligned bt-rich zone mixed with 1-2mm wide GRT bands with ~0.5% vf to f-g diss py and ~0.5% m-g subhedral magnetite crystals. 0.2% vf-g py in bt-rich zone at lower contact and trace m-g magnetite. Diffuse lower contact. End Log		64.38-68.63m 0.2% Disseminated Pyrite		40446711	67.5 - 68.63 (m)	0.0006	11	0.0005	0.0001	0	0	0.03
							40446712	68.63 - 70.63 (m)	0.0047	92	0.0005	0.0021	0	0	0.4
68.63	90.76	Schist	1-5mm wide calcite/hematite alt plag veins common in first 5m of unit. With more intense hematite alt wider zone of alt surrounding vein. Few 5mm to 46cm wide m-g to peg granite bands rarely with m-g magnetite and 1 to m-g diss py. From ~82-89m weak hematite alt of plag in SED. From 88.05-88.12m Weak epidote alt. @88.92m 1mm wide calcite/epidote vein. Substantial core loss between 85-87m. 1-2mm wide calcite vein in core loss section. Sharp lower contact. SED has 0.1% vf-g diss py from 68.63 to ~72m. End Log		68.63-72m 0.1% Disseminated Pyrite		40446713	70.63 - 72.63 (m)	0.0091	53	0.0005	0.0021	0	0	0.13
							40417171	72.63 - 75.63 (m)	0.00587	12.2	0.001	0.0016	0.001	0.002	0.03

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
68.63	90.76	Schist	1-5mm wide calcite/hematite alt plag veins common in first 5m of unit. With more intense hematite alt wider zone of alt surrounding vein. Few 5mm to 46cm wide m-g to peg granite bands rarely with m-g magnetite and f to m-g diss py. From ~82-89m weak hematite alt of plag in SED. From 88.05-88.12m Weak epidote alt. @88.92m 1mm wide calcite/epidote vein. Substantial core loss between 85-87m. 1-2mm wide calcite vein in core loss section. Sharp lower contact. SED has 0.1% vf-g diss py from 68.63 to ~72m. End Log					40417171	72.63 - 75.63 (m)	0.00587	12.2	0.001	0.0016	0.001	0.002	0.03
								40417172	75.63 - 78.63 (m)	0.00562	12.5	0.001	0.0016	0.001	0.006	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
68.63	90.76	Schist	<p>1-5mm wide calcite/hematite alt plag veins common in first 5m of unit. With more intense hematite alt wider zone of alt surrounding vein. Few 5mm to 46cm wide m-g to peg granite bands rarely with m-g magnetite and f to m-g diss py. From ~82-89m weak hematite alt of plag in SED. From 88.05-88.12m Weak epidote alt. @88.92m 1mm wide calcite/epidote vein. Substantial core loss between 85-87m. 1-2mm wide calcite vein in core loss section. Sharp lower contact. SED has 0.1% vf-g diss py from 68.63 to ~72m. End Log</p>	80.7-81.11m 0.3% Blebby Pyrite				40417172	75.63 - 78.63 (m)	0.00562	12.5	0.001	0.0016	0.001	0.006	0.01
								40417173	78.63 - 81.63 (m)	0.0043	34.7	0.001	0.0012	0.001	0.006	0.1
								40417174	81.63 - 84.63 (m)	0.00302	7.4	0.001	0.0012	0.001	0.005	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
68.63	90.76	Schist	1-5mm wide calcite/hematite alt plag veins common in first 5m of unit. With more intense hematite alt wider zone of alt surrounding vein. Few 5mm to 46cm wide m-g to peg granite bands rarely with m-g magnetite and f to m-g diss py. From ~82-89m weak hematite alt of plag in SED. From 88.05-88.12m Weak epidote alt. @88.92m 1mm wide calcite/epidote vein. Substantial core loss between 85-87m. 1-2mm wide calcite vein in core loss section. Sharp lower contact. SED has 0.1% vf-g diss py from 68.63 to ~72m. End Log					4041714	81.63 - 84.63 (m)	0.00302	7.4	0.001	0.0012	0.001	0.005	0.02
								4041715	84.63 - 87.63 (m)	0.0029	20.9	0.001	0.0011	0.001	0.007	0.04
								4041716	87.63 - 90.76 (m)	0.00318	11.2	0.0005	0.0013	0.001	0.006	0.12

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
68.63	90.76	Schist	1-5mm wide calcite/hematite alt plag veins common in first 5m of unit. With more intense hematite alt wider zone of alt surrounding vein. Few 5mm to 46cm wide m-g to peg granite bands rarely with m-g magnetite and f to m-g diss py. From ~82-89m weak hematite alt of plag in SED. From 88.05-88.12m Weak epidote alt. @88.92m 1mm wide calcite/epidote vein. Substantial core loss between 85-87m. 1-2mm wide calcite vein in core loss section. Sharp lower contact. SED has 0.1% vt-g diss py from 68.63 to ~72m. End Log					40417176	87.63 - 90.76 (m)	0.00318	11.2	0.0005	0.0013	0.001	0.006	0.12
90.76	95.88	Granite	0.2% localized m to c-g subhedral to anhedral magnetite crystals throughout. Variable grain size and mineral abundances. Patchy weak hematite alt of feldspar. ~2% bt. From 92.15 to 92.46m and 92.73 to 93.06m bt schist sections with 0.5% vt-g diss py. Sharp contacts along fol with SED. End Log		92.15-92.46m 0.5% Disseminated Pyrite			40417177	90.76 - 93.76 (m)	0.000988	16.9	0.001	0.0004	0.001	0.004	0.1
					92.73-93.06m 0.5% Disseminated Pyrite											
					93.06-98.52m 0.5% Disseminated Pyrite											
								40417178	93.76 - 95.88 (m)	0.000438	4	0.0005	0.0001	0.001	0.002	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
90.76	95.88	Granite	0.2% localized m to c-g subhedral to anhedral magnetite crystals throughout. Variable grain size and mineral abundances. Patchy weak hematite alt of feldspar. ~2% bt. From 92.15 to 92.46m and 92.73 to 93.06m bt schist sections with 0.5% vf-g diss py. Sharp contacts along fol with SED. \End Log					40417178	93.76 - 95.88 (m)	0.000438	4	0.0005	0.0001	0.001	0.002	0.02
95.88	97.15	Schist	Sharp contacts. 0.5% vf-g diss py. \End Log		93.06-98.52m 0.5% Disseminated Pyrite			40417179	95.88 - 97.15 (m)	0.00304	45.5	0.001	0.0012	0.001	0.006	0.38
97.15	98.52	Granite	From 97.16 to 97.65m continuous GRT band. 97.65 to 98.21m GRT band irregular sharp contact with SED. GRT has localized m-g anhedral magnetite crystals. 98.21-98.52 all SED. 0.1% vf-g diss py in SED. \End Log					40417181	97.15 - 98.52 (m)	0.00185	37.9	0.001	0.0008	0.001	0.004	0.24
98.52	100.36	Granite	M to vc-g localized anhedral/subhedral magnetite crystals. Blocky feldspar crystals with some pervasive moderate hematite alt in m-g. Hematite alt around grain boundaries in vc-g. Very common 1mm wide calcite/chlorite veins. ~0.5cm apart. 0.1 f-g diss py. 2cm wide qtz vein. \End Log		98.52-100.36m 0.1% Disseminated Pyrite			40417182	98.52 - 100.36 (m)	0.000442	10.8	0.001	0.0002	0.001	0.005	0.05

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
98.52	100.36	Granite	M to vc-g localized anhedral/subhedral magnetite crystals. Blocky feldspar crystals with some pervasive moderate hematite alt in m-g. Hematite alt around grain boundaries in vc-g. Very common 1mm wide calcite/chlorite veins. ~0.5cm apart. 0.1 f-g diss py. 2cm wide qtz vein. \End Log		98.52-100.36m 0.1% Disseminated Pyrite			40417182	98.52 - 100.36 (m)	0.000442	10.8	0.001	0.0002	0.001	0.005	0.05
								40417183	100.36 - 102.36 (m)	0.00308	11.2	0.001	0.0013	0.001	0.007	0.07
100.36	106.34	Granite	~25% lathic subhedral bt. ~25% anhedral qtz. ~15% anhedral k-spar. ~35 anhedral plag. 1.5-3cm wide patches of coarser-grained qtz/plag/k-spar/calcite. Cut by 5mm wide qtz/k-spar/plag band (no bt) and 2-5mm wide qtz/calcite vein. Sharp upper and lower contacts. Weak calcite alt (some have rusty coloured pits) near bottom of unit. \End Log					40417184	102.36 - 104.36 (m)	0.00279	1.7	0.002	0.0011	0.001	0.009	0.01
								40417185	104.36 - 106.34 (m)	0.00283	2.1	0.001	0.0012	0.001	0.01	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
100.36	106.34	Granite	~25% lathic subhedral bt. ~25% anhedral qtz. ~15% anhedral k-spar. ~35% anhedral plag. 1.5-3cm wide patches of coarser-grained qtz/plag/k-spar/calcite. Cut by 5mm wide qtz/k-spar/plag band (no bt) and 2-5mm wide qtz/calcite vein. Sharp upper and lower contacts. Weak calcite alt (some have rusty coloured pits) near bottom of unit. \End Log					40417185	104.36 - 106.34 (m)	0.00283	2.1	0.001	0.0012	0.001	0.01	0.01
106.34	107.38	Schist	19cm wide m-g GRT band same as prev. GRT unit with bt. Common 1mm wide veins with alt halo. 0.2% f to m-g diss py present from 107.14 to 107.38. \End Log		107.14-107.38m 0.2% Disseminated Pyrite			40417186	106.34 - 107.38 (m)	0.00343	29	0.002	0.0018	0.001	0.005	0.04
107.38	114.29	Granite	White to pink in colour with depth. 10-20% f-g lathic subhedral bt decreasing with depth. ~25% anhedral qtz. ~10-? anhedral plag. ~0-55% anhedral k-spar. ~0.5% vf to f-g rare m-g diss py throughout. With depth py becomes blebby and m-g. @ 113.88-114.24m two pegmatitic qtz veins 1 and 4cm wide with m to vc-g py blebs and 1.5 and 3cm long stringers of py in GRT above qtz veins. Sharp upper and lower contacts. Near upper contact 5mm wide qtz vein with diss py. <1mm wide calcite veins rare. \End Log		107.38-114.29m 0.5% Disseminated Pyrite			40446714	107.38 - 108.68 (m)	0.0018	153	0.001	0.0007	0	0	0.27
								40446715	108.68 - 110.29 (m)	0.0011	23	0.0005	0.0005	0	0	0.09



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
107.38	114.29	Granite	White to pink in colour with depth. 10-20% f-g lathic subhedral bt decreasing with depth. ~25% anhedral Qtz. ~10% anhedral plag. ~0-55% anhedral k-spar. ~0.5% vf to f-g rare m-g diss py throughout. With depth py becomes blebby and m-g. @ 113.88-114.24m two pegmatitic Qtz veins 1 and 4cm wide with m to vc-g py blebs and 1.5 and 3cm long stringers of py in GRT above Qtz veins. Sharp upper and lower contacts. Near upper contact 5mm wide Qtz vein with diss py. <1mm wide calcite veins rare. End Log		107.38-114.29m 0.5% Disseminated Pyrite			40446715	108.68 - 110.29 (m)	0.0011	23	0.0005	0.0005	0	0	0.09
								40446716	110.29 - 112.29 (m)	0.0009	17	0.0005	0.0004	0	0	0.06
								40446717	112.29 - 114.29 (m)	0.0005	38	0.0005	0.0002	0	0	0.12
114.29	114.9	Schist	Bt schist. Sharp contacts. ~1cm wide granitic band with trace diss py. 2cm wide Qtz vein with rim of green alt. 3cm wide HBL band with patchy green alt. Bands along fol. End Log					40446718	114.29 - 114.9 (m)	0.0087	2	0.0005	0.0024	0	0	0.03
114.9	115.44	Hornblendite	Weak fol only proximal to contacts. Moderate patchy green alt in fol zones. Weak in rest. Rest of unit ~75% lathic subhedral hbl. ~25% subhedral bt. ~0.5% f-g patches of calcite alt. Anhedral patches of m-g granite surrounded by green alt. End Log					40446719	114.9 - 115.44 (m)	0.0448	20	0.0005	0.0065	0.001	0.001	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07									
						0.21									
114.9	115.44	Hornblendite	Weak fol only proximal to contacts. Moderate patchy green alt in fol zones. Weak in rest. Rest of unit ~75% lathic subhedral hbl. ~25% subhedral bt. ~0.5% f-g patches of calcite alt. Anhedral patches of m-g granite surrounded by green alt. \End Log				40446719	114.9 - 115.44 (m)	0.0448	20	0.0005	0.0065	0.001	0.001	0.01
115.44	116.17	Schist	Garnet bt schist intermixed with f-g granite (qtz+feldspar) present as diffuse bands/patches/completely mixed. 2mm wide bands of hematite staining feldspar in SED common in first 20cm of unit. Lower contact has c-g granite with calcite alt. ~1% vf to f-g diss py. 1.5cm wide bt-rich shear zone at contact with intrusion. \End Log		115.44-116.17m 1% Disseminated Pyrite		40446721	115.44 - 116.17 (m)	0.0104	154	0.002	0.0027	0	0	0.28
116.17	117.58	Hornblendite	Equigranular. ~88% lathic hbl with trace chl alt. ~2% anhedral plag. ~10% anhedral/subhedral lathic bt. Rare granular epidote alt. Last ~15cm of unit weakly fol. Patchy weak calcite alt of hbl. Weak patchy green alt. Lower contact not visible. 0.1% vf to f-g diss py cpy and po. \End Log		116.17-117.58m 0.1% Disseminated Pyrite 0.1% Disseminated Chalcopyrite 0.1% Disseminated Pyrrhotite		40446722	116.17 - 117.58 (m)	0.0359	86	0.0005	0.0056	0	0	0.03
117.58	117.92	Schist	Weak to moderate patchy hematite alt of plag in bt schist. 1mm wide calcite vein. 0.5% vf-g diss py. \End Log		117.58-117.92m 0.5% Disseminated Pyrite		40446723	117.58 - 117.92 (m)	0.0154	177	0.0005	0.0032	0	0	0.32
117.92	122.48	Hornblendite	~2-3% anhedral feldspar. Subhedral lathic/blocky hbl with weak serpentine alt. Common 1-5mm wide calcite and calcite/hematite veins. 0.2% vf to f-g diss py and 0.01% cpy. 5mm wide feldspar/qtz/calcite band. \End Log		117.92-122.48m 0.2% Disseminated Pyrite 0.01% Disseminated Chalcopyrite		40446724	117.92 - 119.92 (m)	0.0355	112	0.0005	0.0056	0	0	0.09
							40446725	119.92 - 121.2 (m)	0.039	132	0.0005	0.006	0	0	0.13

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
117.92	122.48	Hornblendite	~2-3% anhedral feldspar. Subhedral lathic/blocky hbl with weak serpentine alt. Common 1-5mm wide calcite and calcite/hematite veins. 0.2% vf to f-g diss py and 0.01% cpy. 5mm wide feldspar/qtz/calcite band. \End Log		117.92-122.48m 0.2% Disseminated Pyrite 0.01% Disseminated Chalcopyrite			40446725	119.92 - 121.2 (m)	0.039	132	0.0005	0.006	0	0	0.13
								40446726	121.2 - 122.48 (m)	0.0372	99	0.0005	0.0063	0	0	0.11
122.48	124.13	FeldspatHornblendite	~10% anhedral feldspar some pink. Blocky to lathic hbl with moderate serpentine alt and weak cal alt. ~3% bt. @122.48-122.58m and 123.66 - 123.71m anhedral plag/k-spar/calcite and euheral m to c-g hbl with mod serpentine alt bands. 0.1% vf to f-g diss py. \End Log		122.48-124.13m 0.1% Disseminated Pyrite			40446727	122.48 - 124.13 (m)	0.0328	155	0.001	0.0056	0	0	0.19
124.13	124.65	Gabbro	Sharp contacts. ~20% anhedral plag. ~20% anhedral k-spar. ~5% anhedral calcite. ~5% anhedral qtz. ~50% euheral hbl with mod serpentine alt. ~1% vf to f-g diss some cubic py. \End Log		124.13-124.65m 1% Disseminated Pyrite			40446728	124.13 - 124.65 (m)	0.0079	380	0.002	0.0031	0	0	0.67
124.65	132	FeldspatHornblendite	Varitextured. ~5-10% f-g anhedral plag. Lathic to blocky hbl with weak to mod serpentine alt. Rare 1mm wide calcite veins. @130.02-130.35m granitic band. Near upper contact 3cm wide feldspar/calcite band. Throughout patches of coarser-grained anhedral feldspar. @131.74-131.80m and 131.94-132m anhedral feldspar/calcite and euheral c-g hbl with mod serpentine alt. ~2% bt. 0.2% f-g diss py. \End Log		124.65-132m 0.2% Disseminated Pyrite			40446729	124.65 - 126.65 (m)	0.0231	85	0.0005	0.0051	0	0	0.12

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
124.65	132	FeldspatHornblendite	Varitextured, ~5-10% f-g anhedral plag. Lathic to blocky hbl with weak to mod serpentine alt. Rare 1mm wide calcite veins. @130.02-130.35m granitic band. Near upper contact 3cm wide feldspar/calcite band. Throughout patches of coarser-grained anhedral feldspar. @131.74-131.80m and 131.94-132m anhedral feldspar/calcite and euhedral c-g hbl with mod serpentine alt. ~2% bt. 0.2% f-g diss py. \End Log		124.65-132m 0.2% Disseminated Pyrite			40446729	124.65 - 126.65 (m)	0.0231	85	0.0005	0.0051	0	0	0.12
								40446731	126.65 - 128.65 (m)	0.0281	90	0.0005	0.0059	0	0	0.1
								40446732	128.65 - 130 (m)	0.0268	145	0.0005	0.0057	0	0.001	0.23
								40446733	130 - 132 (m)	0.0278	148	0.001	0.0053	0	0	0.12

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
124.65	132	FeldspatHornblendite	Varitextured. ~5-10% f-g anhedral plag. Lathic to blocky hbl with weak to mod serpentine alt. Rare 1mm wide calcite veins. @ 130.02-130.35m granitic band. Near upper contact 3cm wide feldspar/calcite band. Throughout patches of coarser-grained anhedral feldspar. @ 131.74-131.80m and 131.94-132m anhedral feldspar/calcite and anhedral c-g hbl with mod serpentine alt. ~2% bt. 0.2% f-g diss py. \End Log		124.65-132m 0.2% Disseminated Pyrite			40446733	130 - 132 (m)	0.0278	148	0.001	0.0053	0	0	0.12
								40446734	132 - 134.09 (m)	0.026	174	0.0005	0.0054	0	0	0.21
132	140.49	FeldspatHornblendite	Varitextured. Gradational textural changes throughout with variable plag content. ~77-92% m to c-g lathic/blocky hbl with ~5-20% f to c-g anhedral plag throughout to plag patches (feldspathic hbl to melanogabbro). ~3% bt. Other texture is 87-92% m to c-g blocky hbl with irregular grain boundaries and 5-10% f-g anhedral plag in aggregates around hbl crystals. Weak calcite alt. Weak serpentine alt throughout. @ 133.73-134.09m qtz-fich bt schist SED with 0.3% vf-g diss py. From 132-136.52m 0.01% vf-g diss py/cpy/po. From 136.52-137.75m m to c-g blebs and f-g diss of py (0.1%)cpy(0.1%)po(0.1%) c-g bleb associated with epi alt. From 137.75-140.49m vf to f-g diss/ f-g bleb localized py(0.05%)cpy(0.05%). \End Log		132-136.52m 0.01% Disseminated Pyrite 0.01% Disseminated Chalcopyrite			40446735	134.09 - 135.53 (m)	0.0296	132	0.0005	0.006	0	0	0.09
								40203795	135.53 - 136.53 (m)	0.0264	192	0.0005	0.0064	0.001	0.002	0.12

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
132	140.49	FeldspatHornblendite	Varitextured. Gradational textural changes throughout with variable plag content. ~77-92% m to c-g lathic/blocky hbl with ~5-20% f to c-g anhedral plag throughout to plag patches (feldspathic hbl to melanogabbro). ~3% bt. Other texture is 87-92% m to c-g blocky hbl with irregular grain boundaries and 5-10% f-g anhedral plag in aggregates around hbl crystals. Weak calcite alt. Weak serpentine alt throughout. @133.73-134.09m qtz-rich bt schist SED with 0.3% vf-g diss py. From 132-136.52m 0.01% vf-g diss py/cpy/po. From 136.52-137.75m m to c-g blebs and f-g diss of py (0.1%)/cpy(0.1%)/po(0.1%). c-g bleb associated with epi alt. From 137.75-140.49m vf to f-g diss/ f-g bleb localized py(0.05%)/cpy(0.05%). End Log		132-136.52m 0.01% Disseminated Pyrite 0.01% Disseminated Chalcopyrite			40203795	135.53 - 136.53 (m)	0.0264	192	0.0005	0.0064	0.001	0.002	0.12
					40203796			136.53 - 137.53 (m)	0.0342	258	0.0005	0.0071	0.001	0.004	0.2	
					40203798			137.53 - 138.52 (m)	0.0546	403	0.0005	0.0071	0.002	0.002	0.32	
					40446736			138.52 - 140.49 (m)	0.121	525	0.002	0.0094	0.002	0.002	0.44	
140.49	143.77	Melagabbro	Texture dominantly 84% m to c-g blocky hbl with irregular grain boundaries and ~15% f-g anhedral plag and weak calcite in aggregates around hbl crystals. ~1% bt. Hbl has weak serpentine. Some m-g anhedral patches of plag localized near upper contact. Upper contact gradational. 2mm wide plag/Qtz vein. Two ~4.5cm wide granite/tonalite bands with rare 2mm wide py bleb in granite. Sharp contacts. 0.1% f-g diss py and 0.01% vf-g diss cpy. Weak sericite alt of plag in tonalite/granite bands. End Log		140.49-143.77m 0.1% Disseminated Pyrite 0.01% Disseminated Chalcopyrite			40446737	140.49 - 141.7 (m)	0.0978	146	0.001	0.0061	0.004	0.004	0.13

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
140.49	143.77	Melagabbro	Texture dominantly 84% m to c-g blocky hbl with irregular grain boundaries and ~15% f-g anhedral plag and weak calcite in aggregates around hbl crystals. ~1% bt. Hbl has weak serpentine. Some m-g anhedral patches of plag localized near upper contact. Upper contact gradational. 2mm wide plag/Qtz vein. Two ~45cm wide granite/tonalite bands with rare 2mm wide py bleb in granite. Sharp contacts. 0.1% f-g diss py and 0.01% vf-g diss cpy. Weak sericite alt of plag in tonalite/granite bands. \End Log		140.49-143.77m 0.1% Disseminated Pyrite 0.01% Disseminated Chalcopyrite			40446737	140.49 - 141.7 (m)	0.0978	146	0.001	0.0061	0.004	0.004	0.13
								40446738	141.7 - 143.77 (m)	0.0343	45	0.001	0.0028	0.002	0.001	0.07
143.77	144.49	Granite	Weak sericite alt of plag, aligned bt bands ~5% bt. fragments of FHB with sharp contacts. \End Log					40446739	143.77 - 144.49 (m)	0.0086	26	0.0005	0.0007	0	0	0.03
								40446741	144.49 - 145.8 (m)	0.0508	26	0.0005	0.0041	0.002	0.002	0.04
144.49	147.08	Melagabbro	Texture dominantly 84% m to c-g blocky hbl with irregular grain boundaries and ~15% f-g anhedral plag and weak calcite in aggregates around hbl crystals. ~1% bt. Hbl has weak serpentine alt. 1mm wide plag/Qtz veins. 1.5-10cm wide granitic bands. 1mm wide wispy calcite veins. 0.01% vf-g diss py. \End Log		144.49-147.08m 0.01% Disseminated Pyrite			40446742	145.8 - 147.08 (m)	0.0454	8	0.0005	0.0035	0.002	0.002	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07	0.14								
144.49	147.08	Melagabbro	Texture dominantly 84% m to c-g blocky hbl with irregular grain boundaries and ~15% f-g anhedral plag and weak calcite in aggregates around hbl crystals. ~1% bt. Hbl has weak serpentine alt. 1mm wide plag/gtz veins. 1.5-10cm wide granitic bands. 1mm wide wispy calcite veins. 0.01% vf-g diss py. \End Log		144.49-147.08m 0.01% Disseminated Pyrite		40446742	145.8 - 147.08 (m)	0.0454	8	0.0005	0.0035	0.002	0.002	0.02
147.08	147.95	Granite	Mod hematite staining of m-g feldspar. Weak sericite alt of c-g plag. ~2% blebby py associated with bt. ~5-10% bt. Weak brecciation at lower contact. Trace epidote alt. 1mm wide chl veins common. \End Log		147.08-147.95m 2% Blebby Pyrite		40446743	147.08 - 147.95 (m)	0.0045	270	0.003	0.0011	0.001	0	1.2
147.95	149.92	Melagabbro	Texture dominantly 85% m to c-g blocky hbl with irregular grain boundaries and ~15% f-g anhedral plag and weak calcite in aggregates around hbl crystals. Hbl has weak serpentine alt. 0.01% f-g diss py. 10 and 32cm wide granite/tonalite bands with rare c-g blebby py. Common 1mm wide calcite veins. \End Log		147.95-149.92m 0.01% Disseminated Pyrite		40446744	147.95 - 149.92 (m)	0.0455	31	0.001	0.0036	0.005	0.003	0.14
149.92	158.22	Melagabbro	C-g tonalite to granite bands/anhedral patches fragments of MGB and m-g blebby py. Switches between MGB and SED commonly. Some sharp contacts some diffuse very irregular. MGB has 20-40% anhedral plag and 55-75% subhedral lathic hbl. ~5% bt. Rare 1mm wide calcite veins. ~0.75% vf to f-g diss py in SED. MGB has 0.01-0.5% vf to f-g diss py. Weak calcite alt. Trace serpentine alt. \End Log		149.92-158.22m 0.5% Disseminated Pyrite		40446745	149.92 - 151.92 (m)	0.0267	134	0.0005	0.0041	0.002	0.002	0.26
							40446746	151.92 - 153.92 (m)	0.0322	104	0.002	0.004	0.001	0.001	0.13



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
149.92	158.22	Melagabbro	C-g tonalite to granite bands/anhedral patches fragments of MGB and m-g blebby py. Switches between MGB and SED commonly. Some sharp contacts some diffuse very irregular. MGB has 20-40% anhedral plagi and 55-75% subhedral lathic hbl. ~5% bt. Rare 1mm wide calcite veins. ~0.75% vf to f-g diss py in SED. MGB has 0.01-0.5% vf to f-g diss py. Weak calcite alt. Trace serpentine alt. End Log		149.92-158.22m 0.5% Disseminated Pyrite			40446746	151.92 - 153.92 (m)	0.0322	104	0.002	0.004	0.001	0.001	0.13
								40446747	153.92 - 155.34 (m)	0.043	13	0.0005	0.0041	0.001	0.002	0.03
								40446748	155.34 - 156.22 (m)	0.0169	197	0.0005	0.0027	0.001	0.001	0.23
								40446749	156.22 - 158.22 (m)	0.041	18	0.002	0.004	0.001	0.001	0.04

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07	0.14								
149.92	158.22	Melagabbro	C-g tonalite to granite bands/anhedral patches fragments of MGB and m-g blebby py. Switches between MGB and SED commonly. Some sharp contacts some diffuse very irregular. MGB has 20-40% anhedral plag and 55-75% subhedral lathic hbl. ~5% bt. Rare 1mm wide calcite veins. ~0.75% vf to f-g diss py in SED. MGB has 0.01-0.5% vf to f-g diss py. Weak calcite alt. Trace serpentine alt. \End Log		149.92-158.22m 0.5% Disseminated Pyrite		40446749	156.22 - 158.22 (m)	0.041	18	0.002	0.004	0.001	0.001	0.04
							40446126	158.22 - 160.22 (m)	0.0109	70	0.0005	0.0027	0.001	0.001	0.75
158.22	162.07	Schist	~15cm wide band of MGB @160m. Pegmatitic bleb of Qtz and c-g feldspar with c-g blebby py @159.95m. 1-5mm wide tonalite bands along fol. Some anhedral tonalite patches. 1mm wide epidote vein. Sharp lower contact. 0.01 to 0.5% vf-g diss py. \End Log		158.22-162.07m 0.01% Disseminated Pyrite		40417187	160.22 - 162.07 (m)	0.0066	49.2	0.001	0.0022	0.001	0.005	0.25
162.07	164.2	Schist	Strongly foliated bt schist with common bands of granitic to tonalitic intrusive, comparatively low bt to other schist ~10%. 0.5% diss po associated with magnetic patches and low amounts of magnetite. 0.5% py Sharp contct with overlying sed. \End Log		162.07-164.2m 0.5% Disseminated Pyrite 0.5% Disseminated Pyrrhotite		40417188	162.07 - 164.2 (m)	0.00454	16.1	0.001	0.0014	0.001	0.002	0.2

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
162.07	164.2	Schist	Strongly foliated bt schist with common bands of granitic to tonalitic intrusive, comparatively low bt to other schist ~10%. 0.5% diss po associated with magnetic patches and low amounts of magnetite. 0.5% py Sharp contct with overlying sed. \End Log		162.07-164.2m 0.5% Disseminated Pyrite 0.5% Disseminated Pyrrhotite			40417188	162.07 - 164.2 (m)	0.00454	16.1	0.001	0.0014	0.001	0.002	0.2
								40417189	164.2 - 167 (m)	0.00609	40.8	0.001	0.0019	0.001	0.006	0.21
164.2	188.32	Schist	Biotite schist primarily quartz and ~30%bt variable. Common foliation parallel tonalitic bands.No apparrent sulphide. Bt rich bands up to 40cm wide show weak chlorite. Increased by proximal to felsic bands. Few bands boudinaged. Weak chlorite alt of bio. \End Log					40417191	167 - 170 (m)	0.00649	47.9	0.001	0.002	0.001	0.005	0.24

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
164.2	188.32	Schist	Biotite schist primarily quartz and ~30%bt variable. Common foliation parallel tonalitic bands.No apparrent sulphide. Bt rich bands up to 40cm wide show weak chlorite. Increased by proximal to felsic bands. Few bands boudinaged. Weak chlorite alt of bio. \End Log					40417191	167 - 170 (m)	0.00649	47.9	0.001	0.002	0.001	0.005	0.24
								40417192	170 - 173 (m)	0.00757	50.8	0.001	0.0024	0.001	0.009	0.24
								40417193	173 - 176 (m)	0.00633	46.3	0.001	0.002	0.001	0.007	0.29

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
164.2	188.32	Schist	Biotite schist primarily quartz and ~30%bt variable. Common foliation parallel tonalitic bands. No apparrent sulphide. Bt rich bands up to 40cm wide show weak chlorite. Increased by proximal to felsic bands. Few bands boudinaged. Weak chlorite alt of bio. \End Log					40417193	173 - 176 (m)	0.00633	46.3	0.001	0.002	0.001	0.007	0.29
								40417194	176 - 179 (m)	0.00607	53.2	0.001	0.0021	0.001	0.002	0.31

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
164.2	188.32	Schist	Biotite schist primarily quartz and ~30%bt variable. Common foliation parallel tonalitic bands.No apparrent sulphide. Bt rich bands up to 40cm wide show weak chlorite. Increased by proximal to felsic bands. Few bands boudinaged. Weak chlorite alt of bio. \End Log					40417194	176 - 179 (m)	0.00607	53.2	0.001	0.0021	0.001	0.002	0.31
								40417195	179 - 182 (m)	0.006	46.9	0.001	0.002	0.008	0.006	0.24
								40417196	182 - 185 (m)	0.00809	44.8	0.001	0.0021	0.001	0.004	0.22

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
164.2	188.32	Schist	Biotite schist primarily quartz and ~30%bt variable. Common foliation parallel tonalitic bands. No apparant sulphide. Bt rich bands up to 40cm wide show weak chlorite. Increased by proximal to felsic bands. Few bands boudinaged. Weak chlorite alt of bio. \End Log					40417196	182 - 185 (m)	0.00809	44.8	0.001	0.0021	0.001	0.004	0.22
								40417197	185 - 188.32 (m)	0.0143	34.2	0.001	0.0023	0.001	0.002	0.16
188.32	194	Tonalite	Tonalite has variable crystal size from med grained bt to peg plag&qtz. No apparant mineralization. Compositionally homogeneous. 3%bt interstitial. Weak saussurization. Plag nearly euhedral. Sharp contacts with neighboring unts. \End Log					40417198	188.32 - 191 (m)	0.000232	1.7	0.001	0.0001	0.006	0.005	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
188.32	194	Tonalite	Tonalite has variable crystal size from med grained bt to peg plag&qtz. No apparent mineralization. Compositionally homogeneous, 3%bt interstitial. Weak saussuritization. Plag nearly euhedral. Sharp contacts with neighboring units. End Log					40417198	188.32 - 191 (m)	0.000232	1.7	0.001	0.0001	0.006	0.005	0.01
								40417199	191 - 194 (m)	0.000234	1.2	0.001	0.0001	0.001	0.004	0.01
194	198.52	Schist	40% bt schist. No apparrent mineralization. Thin 0.5mm bands of tonalitic intrusive uncommon and 0.5mm chlorite bands rare. Chlorite veinlets rare. Sharp contacts with neighboring units. End Log					40417201	194 - 196 (m)	0.015	60.1	0.001	0.0032	0.001	0.005	0.27



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
194	198.52	Schist	40% bt schist. No apparrent mineralization. Thin 0.5mm bands of tonalitic intrusive uncommon and 0.5mm chlorite bands rare. Chlorite veinlets rare. Sharp contacts with neighboring units. \End Log					40417201	194 - 196 (m)	0.015	60.1	0.001	0.0032	0.001	0.005	0.27
								40417202	196 - 198.52 (m)	0.0073	49.7	0.001	0.0021	0.001	0.002	0.25
198.52	217	Tonalite	Mineralized zone from 206.16-206.39 with 1.5% po and 5% cp. Variable reflectance in po crystals. Potential pn. Trace py. Low bt in unit other than association with mineralized interval and few brecciated zones. ~5% bt throughout. Breccia zone 200.23-200.59. Weak saussuritization \End Log					40417203	198.52 - 201 (m)	0.000572	4.2	0.001	0.0002	0.001	0.002	0.04

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
198.52	217	Tonalite	Mineralized zone from 206.16-206.39 with 1.5% po and 5% cp. Variable reflectance in po crystals. Potential bn. Trace py. Low bt in unit other than association with mineralized interval and few brecciated zones ~5% bt throughout. Breccia zone 200.23-200.59. Weak saussuritization (End Log					40417203	198.52 - 201 (m)	0.000572	4.2	0.001	0.0002	0.001	0.002	0.04
								40417204	201 - 203 (m)	0.000223	2.8	0.001	0.0001	0.001	0.002	0.02
								40417205	203 - 205 (m)	0.000321	6.9	0.001	0.0001	0.001	0.002	0.03
								40417206	205 - 207 (m)	0.000202	7.3	0.001	0.0001	0.001	0.004	0.03

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.07									
						0.14									
						0.21									
198.52	217	Tonalite	Mineralized zone from 206.16-206.39 with 1.5% po and 5% cp. Variable reflectance in po crystals. Potential bn. Trace py. Low bt in unit other than association with mineralized interval and few brecciated zones ~5% bt throughout. Breccia zone 200.23-200.59. Weak saussuritization (End Log		206.16-206.39m 0.01% Disseminated Pyrite 1.5% Interstitial Pyrrhotite 0.5% Interstitial Chalcopyrite		40417206	205 - 207 (m)	0.000202	7.3	0.001	0.0001	0.001	0.004	0.03
							40417207	207 - 209 (m)	0.000186	5.6	0.001	0.0001	0.001	0.002	0.03
							40417208	209 - 211 (m)	0.000189	2.9	0.001	0.0001	0.001	0.002	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
198.52	217	Tonalite	Mineralized zone from 206.16-206.39 with 1.5% po and 5% cp. Variable reflectance in po crystals. Potential bn. Trace py. Low bt in unit other than association with mineralized interval and few brecciated zones ~5% bt throughout. Breccia zone 200.23-200.59. Weak saussuritization (End Log					40417208	209 - 211 (m)	0.000189	2.9	0.001	0.0001	0.001	0.002	0.02
								40417209	211 - 214 (m)	0.000132	3.6	0.001	0.0001	0.001	0.004	0.02
								40417211	214 - 217 (m)	0.000218	1.7	0.0005	0.0001	0.001	0.004	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
198.52	217	Tonalite	Mineralized zone from 206.16-206.39 with 1.5% po and 5% cp. Variable reflectance in po crystals. Potential pn. Trace py. Low bt in unit other than association with mineralized interval and few brecciated zones. ~5% bt throughout. Breccia zone 200.23-200.59. Weak saussuritization \End Log					40417211	214 - 217 (m)	0.000218	1.7	0.0005	0.0001	0.001	0.004	0.01
								40417212	217 - 219 (m)	0.00675	42.9	0.001	0.0021	0.001	0.002	0.2
217	223.7	Schist	Pegmatitic Tonalite unit from 219.63-220.13. Trace interstitial diss pyrrhotite related to tonalite unit and rare in metased. Cube of pyrite visible in pyrrhotite patch at 222.97 rare pyrite bearing veinlets. Schist has variable bt comp ranging from 5% to 75%. 40% avg. Common calcite veins especially along fracture surfaces. \End Log		217-223.7m 0.01% Disseminated Pyrite 0.01% Interstitial Pyrrhotite			40417213	219 - 221 (m)	0.00319	37.8	0.001	0.0011	0.004	0.002	0.19
								40417214	221 - 223.7 (m)	0.00794	46.4	0.001	0.0027	0.001	0.002	0.18

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
217	223.7	Schist	Pegmatitic Tonalite unit from 219.63-220.13. Trace interstitial diss pyrrhotite related to tonalite unit and rare in metased. Cube of pyrite visible in pyrrhotite patch at 222.97 rare pyrite bearing veinlets. Schist has variable bt comp ranging from 5% to 75%. 40% avg. Common calcite veins especially along fracture surfaces. End Log		217-223.7m 0.01% Disseminated Pyrite 0.01% Interstitial Pyrrhotite			40417214	221 - 223.7 (m)	0.00794	46.4	0.001	0.0027	0.001	0.002	0.18
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2% avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417215	223.7 - 227 (m)	0.000152	5.1	0.001	0.0001	0.003	0.005	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2% avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. \End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417215	223.7 - 227 (m)	0.000152	5.1	0.001	0.0001	0.003	0.005	0.02
								40417216	227 - 230 (m)	0.00023	3	0.001	0.0001	0.001	0.002	0.02
								40417217	230 - 233 (m)	0.000295	6.4	0.001	0.0002	0.004	0.002	0.03

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2% avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. \End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417217	230 - 233 (m)	0.000295	6.4	0.001	0.0002	0.004	0.002	0.03
								40417218	233 - 236 (m)	0.000172	4.8	0.0005	0.0001	0.001	0.004	0.01
								40417219	236 - 239 (m)	0.000175	1.1	0.001	0.0001	0.001	0.002	0.01



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2% avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. \End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417219	236 - 239 (m)	0.000175	1.1	0.001	0.0001	0.001	0.002	0.01
								40417221	239 - 242 (m)	0.000154	1.2	0.0005	0.0001	0.001	0.004	0.01
								40417222	242 - 245 (m)	0.000144	3.1	0.0005	0.0001	0.001	0.002	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2% avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. \End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417222	242 - 245 (m)	0.000144	3.1	0.0005	0.0001	0.001	0.002	0.02
								40417223	245 - 248 (m)	0.000113	1.1	0.0005	0.0001	0.001	0.002	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2%, avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417223	245 - 248 (m)	0.000113	1.1	0.0005	0.0001	0.001	0.002	0.01
								40417224	248 - 252.16 (m)	0.000144	2.4	0.0005	0.0001	0.001	0.002	0.02

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.21									
						0.07	0.14									
223.7	252.16	Tonalite	Variable degrees of saussuritized tonalite until EOH. Trace pyrite. Calcite veins common, visible along fractures in the core. Bt composition variable from 30% to 2%, avg 5%. Bt occurs interstitially and forms two 20cm breccia zones. End Log		223.7-252.16m 0.01% Disseminated Pyrite			40417223	245 - 248 (m)	0.000113	1.1	0.0005	0.0001	0.001	0.002	0.01
								40417224	248 - 252.16 (m)	0.000144	2.4	0.0005	0.0001	0.001	0.002	0.02



HoleID **QTBL0014**

Claim #	311979	Hole Type	Diamond	Sampled By	Greg Galloway
Project	QUETICO	SurveyType	Compass	Hole Status	Abandoned
Easting	667424.81	Hole Diameter	NQ	Casing Depth (m)	3
Northing	5401525.55	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	170.6405	Drill Rig	NW	Sample Count	46
Dip	65	Start Date	06-Jul-2022	Assay Count	46
Total Length (m)	64.3	End Date	07-Jul-2022	Overburden (m)	0.2
Location	311979	Log Date	01-Aug-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Greg Galloway	Hole Condition	Dry

Scale 1:100

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.02 0.03									
0	0.2	OVB	Mixed cobbles \End Log												
							40417225	0.2 - 2 (m)	0.00566	42.7	0.0005	0.0018	0.001	0.004	0.14
							40417226	2 - 4 (m)	0.00807	50.2	0.0005	0.0025	0.001	0.004	0.22
							40417227	4 - 6 (m)	0.00753	53	0.0005	0.0023	0.003	0.002	0.21
							40417228	6 - 8 (m)	0.00772	46.9	0.0005	0.0023	0.001	0.002	0.17
							40417229	8 - 10 (m)	0.00573	52.1	0.0005	0.002	0.005	0.002	0.21
0.2	20.03	Schist	Fine to medium grained well foliated biotite schist (90%). This unit is cut by 5-50cm bleached granitic bands at a low angle to the core axis. Some of the felsic bands have localized migmatitic textures indicating potential partial melting. There is a substantial zone of the partial melting from 11.16-12.84. \End Log		0.2-39.4m 0.1% Blebby Pyrite										
							40417231	10 - 12 (m)	0.00437	36.1	0.0005	0.0015	0.007	0.002	0.17
							40417232	12 - 14 (m)	0.00378	42.2	0.0005	0.0014	0.002	0.002	0.23
							40417233	14 - 16 (m)	0.00516	50.3	0.0005	0.0018	0.001	0.006	0.25
							40417234	16 - 18 (m)	0.00579	47.4	0.0005	0.002	0.001	0.005	0.24
							40417235	18 - 20.03 (m)	0.00671	32.5	0.0005	0.002	0.001	0.002	0.15

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.02									
						0.05									
0.2	20.03	Schist	Fine to medium grained well foliated biotite schist (90%). This unit is cut by 5-50cm bleached granitic bands at a low angle to the core axis. Some of the felsic bands have localized migmatitic textures indicating potential partial melting. There is a substantial zone of the partial melting from 11.16-12.84. \End Log				40417235	18 - 20.03 (m)	0.00671	32.5	0.0005	0.002	0.001	0.002	0.15
20.03	21.36	Granite	Band of felsic intrusive cutting the biotite schist country rock. Irregular contacts at a low angle to core axis. Zones of variation in grain size. There is a 21cm xenolith of the surrounding biotite schist \End Log				40417236	20.03 - 21.36 (m)	0.0021	11.1	0.0005	0.0007	0.001	0.002	0.06
							40417237	21.36 - 23 (m)	0.00701	52.2	0.0005	0.0023	0.001	0.004	0.22
							40417238	23 - 25 (m)	0.00798	39.1	0.0005	0.0021	0.006	0.008	0.29
21.36	31.52	Schist	Fine to medium grained well foliated biotite schist (90%). This unit is cut by 5-50cm bleached granitic bands at a low angle to the core axis (10%). Some of the felsic bands have localized migmatitic textures indicating potential partial melting. \End Log				40417239	25 - 27 (m)	0.0057	45.1	0.0005	0.002	0.001	0.011	0.24
							40417241	27 - 29 (m)	0.00475	41.6	0.0005	0.0017	0.012	0.009	0.24
					0.2-39.4m 0.1% Blebby Pyrite		40417242	29 - 30.25 (m)	0.00473	39.8	0.0005	0.0018	0.006	0.004	0.23
							40417243	30.25 - 31.52 (m)	0.0053	55.1	0.0005	0.0016	0.001	0.002	0.28
31.52	33.26	Granite	Weakly bleached granite. 10%biotite most of which looks secondary near the lower contact. Graphitic texture in the larger Kspar crystals. Deformed fragments of biotite schist country rock 5-10cm \End Log				40417244	31.52 - 33.26 (m)	0.00192	9.8	0.0005	0.0005	0.001	0.002	0.05
33.26	34.17	Schist	Medium grained well foliated biotite schist (90%). This unit is cut by a bleached granitic band. Coarser grain size near intrusives. \End Log				40417245	33.26 - 34.17 (m)	0.00989	47.4	0.0005	0.0025	0.003	0.002	0.21
34.17	35.66	Granite	Weakly bleached pegmatitic granite. 20% biotite. There are large fragments of the country rock included in this unit. Graphitic texture of Kspar \End Log				40417246	34.17 - 35.66 (m)	0.0029	23.2	0.0005	0.001	0.004	0.006	0.12
							40417247	35.66 - 37.25 (m)	0.00604	40.6	0.0005	0.0021	0.001	0.002	0.19
35.66	40.07	Schist	Medium grained biotite schist. There are a couple of <5cm mafic bands. Increasing alteration in the 2-3m near the contact with the mafic intrusive below including increased grain size and more mafic alteration. \End Log				40203799	37.25 - 38.25 (m)	0.00792	55.5	0.0005	0.0021	0.001	0.004	0.2
					39.4-40.07m 1% Disseminated Pyrite 0.5% Vein Pyrrhotite 0.25% Vein Chalcopyrite		40203801	38.25 - 39.25 (m)	0.0232	94.3	0.0005	0.0036	0.001	0.004	0.47
							40203802	39.25 - 40.07 (m)	0.0125	256	0.001	0.0044	0.005	0.005	0.75
							40203803	40.07 - 41.5 (m)	0.0423	142	0.0005	0.0058	0.001	0.002	0.3
					40.07-43m 1% Blebby Pyrite 0.5% Blebby Pyrrhotite 0.2% Blebby Chalcopyrite		40203804	41.5 - 43 (m)	0.0346	227	0.0005	0.0069	0.001	0.005	0.46
40.07	45.28	HornblendeGabbro	Hornblende rich gabbro. 55% euhedral to subhedral hornblende with 45% interstitial plagioclase. The hornblende is locally altered to biotite. \End Log				40203805	43 - 44.25 (m)	0.0334	132	0.0005	0.0059	0.001	0.002	0.35
					43-45.28m 0.5% Blebby Pyrite 0.1% Blebby Pyrrhotite 0.1% Blebby Chalcopyrite		40203806	44.25 - 45.28 (m)	0.0314	142	0.0005	0.0058	0.001	0.004	0.3
45.28	47.22	Granite	Weakly bleached pegmatitic granite. 20% biotite. The basal contact has rounded feldspar crystals in a coarse biotite matrix that appears to be secondary. There was likely some movement on this structure \End Log				40203807	45.28 - 46.28 (m)	0.00223	33.4	0.002	0.0005	0.001	0.002	0.08
					45.28-47.22m 0.1% Blebby Pyrite		40203808	46.28 - 47.22 (m)	0.00617	25.3	0.0005	0.0011	0.001	0.002	0.09

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.02									
						0.05									
45.28	47.22	Granite	Weakly bleached pegmatitic granite. 20% biotite. The basal contact has rounded feldspar crystals in a coarse biotite matrix that appears to be secondary. There was likely some movement on this structure. \End Log		45.28-47.22m 0.1% Blebby Pyrite		40203808	46.28 - 47.22 (m)	0.00617	25.3	0.0005	0.0011	0.001	0.002	0.09
							40203809	47.22 - 48 (m)	0.0342	124	0.0005	0.0055	0.001	0.004	0.17
47.22	49.96	FeldspatHornblendite	Gradational from the gabbro unit above. 85% euhedral to subhedral hornblende crystals with interstitial plagioclase. Locally there are traces of the very coarse poikilictic hornblende crystals but they are very rare. \End Log		47.22-49.96m 0.75% Blebby Pyrite 0.25% Blebby Chalcopyrite 0.1% Diffuse Pyrrhotite		40203811	48 - 49 (m)	0.0414	185.5	0.0005	0.007	0.001	0.004	0.34
							40203812	49 - 49.96 (m)	0.0416	107	0.0005	0.0061	0.001	0.004	0.19
49.96	50.52	Granite	A short mixed zone of felsic intrusive with altered fragments of biotite schist country rock. \End Log		49.96-50.52m 0.5% Blebby Pyrite 0.5% Blebby Pyrrhotite 0.5% Blebby Chalcopyrite		40203813	49.96 - 50.52 (m)	0.00996	366	0.001	0.0025	0.017	0.002	0.66
							40203814	50.52 - 51.5 (m)	0.0489	218	0.002	0.0066	0.001	0.005	0.19
50.52	53.09	FeldspatHornblendite	Gradational from ultramafic unit above. 85% fine to medium grained euhedral to subhedral hornblende crystals in a plagioclase groundmass. Gradually decreasing plagioclase abundance and increasing of hornblende grain size. \End Log		50.52-54.98m 1% Blebby Pyrite 0.25% Blebby Pyrrhotite 0.1% Blebby Chalcopyrite		40203815	51.5 - 52.5 (m)	0.0441	166	0.0005	0.0057	0.001	0.002	0.12
							40203816	52.5 - 53.09 (m)	0.0556	204	0.0005	0.0065	0.006	0.005	0.18
53.09	54.98	Hornblendite	Very coarse poikilictic hornblende crystal make up 0.5% of this rock with rare interstitial plagioclase. \End Log				40203817	53.09 - 54.25 (m)	0.0591	432	0.002	0.0077	0.005	0.002	0.35
							40203818	54.25 - 54.98 (m)	0.0656	468	0.001	0.0072	0.001	0.002	0.32
54.98	57.34	Granite	Coarse bleached granite. Biotite schist xenoliths 5%. 10% biotite some of which looks secondary. \End Log		54.98-57.34m 0.25% Blebby Pyrite		40203819	54.98 - 56 (m)	0.00637	124	0.0005	0.001	0.001	0.005	0.19
							40203821	56 - 57.34 (m)	0.001685	23.2	0.0005	0.0003	0.001	0.002	0.05
57.34	59.56	Hornblendite	Very coarse poikilictic hornblende crystals make up 95% of the rock with rare interstitial plagioclase. \End Log		57.34-60.02m 0.75% Blebby Pyrite 0.25% Blebby Pyrrhotite 0.25% Blebby Chalcopyrite		40203822	57.34 - 58.5 (m)	0.0529	263	0.0005	0.0067	0.001	0.002	0.28
							40203823	58.5 - 59.56 (m)	0.0459	187.5	0.0005	0.0063	0.001	0.005	0.19
59.56	60.02	FeldspatHornblendite	Contact zone between HBL and lower granite. consists mostly of altered very coarse hornblendite cut by the 10cm zone of felsic intrsive and calcite veins. \End Log				40203824	59.56 - 60.02 (m)	0.0305	67.2	0.0005	0.004	0.001	0.005	0.15
							40203825	60.02 - 61 (m)	0.000922	48.3	0.001	0.0003	0.001	0.002	0.11
60.02	64.3	Granite	Fine to medium and locally coarse granite. 10%biotite. Grain size is more uniform than usual felsic intrusives. \End Log		60.02-64.3m 0.01% Diffuse Pyrite		40417248	61 - 64.3 (m)	0.000352	2.6	0.0005	0.0002	0.023	0.006	0.01



HoleID **QTBL0015**

Claim #	311979	Hole Type	Diamond	Sampled By	Conner Arts
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	667425.34	Hole Diameter	NQ	Casing Depth (m)	12
Northing	5401526.05	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	170.6405	Drill Rig	NW	Sample Count	68
Dip	75	Start Date	07-Jul-2022	Assay Count	68
Total Length (m)	177	End Date	09-Jul-2022	Overburden (m)	3.05
Location	311979	Log Date	21-Nov-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Greg Galloway	Hole Condition	Dry

Scale 1:200

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0 0									
0	3.05	Overburden	OVB \End Log												
3.05	6.66	Schist	~30% bt schist with 0.1% pyrite localized to felsic bands in the unit. Irregular felsic bands up to 2cm-4cm wide feature the pyrite along rims with biotite. Common carbonate veinlets with chloritic alteration halos. Natural fractures healed by carbonate, saussurization and sericitization of felsic bands. Unit is nonmagnetic. \End Log		3.05-6.66m 0.1% Patchy Pyrite		40417500	3.05 - 5 (m)	0.00448	39.1	0.0005	0.0017	0.001	0.005	0.21
							40417501	5 - 6.66 (m)	0.00511	40.2	0.0005	0.0018	0.001	0.005	0.22
6.66	7.39	Granite	Bleached granite with very weak foliation defined by biotite. 0.1% pyrite localized to interstitial biotite patches. 10cm band of partially melted schist from 6.75-6.85. Weakly magnetic, localized to very fine magnetite patches. Saussuritized+sericite alt \End Log		6.66-7.39m 0.1% Patchy Pyrite		40417502	6.66 - 7.39 (m)	0.001085	11.7	0.0005	0.0004	0.001	0.002	0.07
							40417503	7.39 - 10 (m)	0.00733	50.7	0.0005	0.0023	0.002	0.002	0.24
							40417504	10 - 13 (m)	0.00777	53.4	0.0005	0.0025	0.001	0.004	0.24
7.39	22.93	Schist	Foliated ~25%bt schist with 0.5% pyrite associated with irregular felsic intrusions and uncommon thin 1-2cm mafic bands. These bands are very weakly magnetic. Chlorite alteration weakly pervasive and concentrated around carbonate veins. Common felsic bands 2-5cm host weak pyrite. 42cm felsic intrusive from 16.78- 17.20. This intrusion is coarse-pegmatitic and is weakly sericitized. A partially melted metased zone exists adjacent to this intrusive \End Log		7.39-22.93m 0.5% Patchy Pyrite		40417505	13 - 16 (m)	0.00581	46.3	0.0005	0.002	0.001	0.002	0.23
							40417506	16 - 19 (m)	0.00513	33	0.0005	0.0016	0.001	0.005	0.17
							40417507	19 - 21 (m)	0.0068	49.4	0.0005	0.0022	0.005	0.002	0.23
22.93	23.61	Granodiorite	Medium-to coarse grained granodiorite with coarse grained elongate euhedral biotite laths. No apparent sulphides. Few pegmatitic feldspars. Irregular carbonate veins are common. Bt around the margins of the unit appear weakly chloritized. \End Log				40417508	21 - 22.93 (m)	0.00646	44.4	0.0005	0.0022	0.001	0.006	0.21
							40417509	22.93 - 23.61 (m)	0.000589	7.1	0.0005	0.0003	0.001	0.004	0.04
							40417511	23.61 - 26 (m)	0.00695	51.7	0.0005	0.0025	0.001	0.005	0.26
							40417512	26 - 29 (m)	0.00656	46.1	0.0005	0.0023	0.001	0.008	0.23
23.61	42.29	Schist	Foliated ~30%bt schist with trace diss pyrite in the metased. Strongly chloritized band from 38.40-38.70 with increased diss. pyrite but still trace. Rare 1cm mafic bands towards bottom of unit. moderate to high pervasive chloritization. Nonmagnetic. Increasing quantity of carbonate veining towards the bottom of the unit. Carbonate veins have a uniform orientation whereas felsic bands are irregular. Nonmagnetic. Felsic bands are granitic to tonalitic very shallowly dipping potentially intrusion related fold of weakly migmatized schist at 40.22. \End Log		22.93-42.29m 0.01% Disseminated Pyrite 0.01% Patchy Pyrite		40417513	29 - 32 (m)	0.00659	41.5	0.0005	0.0022	0.001	0.006	0.21
							40417514	32 - 35 (m)	0.00694	57.2	0.0005	0.0022	0.001	0.007	0.28
							40417515	35 - 38 (m)	0.0066	58.4	0.0005	0.0022	0.007	0.002	0.28
							40417516	38 - 41 (m)	0.0064	46.9	0.0005	0.0022	0.001	0.006	0.24



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0									
23.61	42.29	Schist	chloritization. Nonmagnetic. Increasing quantity of carbonate veining towards the bottom of the unit. Carbonate veins have a uniform orientation whereas felsic bands are irregular. Nonmagnetic. Felsic bands are granitic to tonalitic. Very shallowly dipping potentially intrusion related fold of weakly migmatized schist at 40.22. \End Log		22.93-42.29m 0.01% Disseminated Pyrite 0.01% Patchy Pyrite		40417516	38 - 41 (m)	0.0064	46.9	0.0005	0.0022	0.001	0.006	0.24
42.29	43	Granite			42.29-43m 0.1% Patchy Pyrite		40417517	41 - 42.29 (m)	0.00596	43.1	0.0005	0.0018	0.002	0.002	0.2
43	43.59	Schist			43-43.59m 0.1% Patchy Pyrite		40417518	42.29 - 43 (m)	0.00347	23.4	0.0005	0.001	0.001	0.002	0.2
43.59	45.8	Granite	Bleached granite extensively intergrown with neighboring biotite schist unit. Strong interstitial bt. 0.1% pyrite associated with intergrown schist and intrusion. Few pegmatitic quartz crystals. \End Log				40417519	43 - 43.59 (m)	0.00571	42.3	0.0005	0.002	0.001	0.005	0.26
							40417521	43.59 - 45.8 (m)	0.000897	4.8	0.0005	0.0003	0.001	0.004	0.03
							40417522	45.8 - 48 (m)	0.0078	47.6	0.0005	0.0024	0.01	0.002	0.19
							40417523	48 - 51 (m)	0.00734	43.6	0.0005	0.0023	0.018	0.002	0.24
45.8	56.91	Schist	Variably grainsized granite with interstitial bt hosting 0.25%py increased proximal to neighboring schist. Pegmatitic portion 44.41-44.79 features euhedral feldspar and anhedral pegmatitic quartz with low bt and no mineralization. Kspar mostly bleached. \End Log		45.8-56.91m 0.01% Patchy Pyrite 0.01% Patchy Pyrrhotite		40417524	51 - 54 (m)	0.00743	51.4	0.0005	0.0024	0.001	0.005	0.27
							40417525	54 - 56.91 (m)	0.00462	36.8	0.0005	0.0017	0.001	0.005	0.19
56.91	59.59	Granite	Partially melted bt schist with ~20%bt. Trace pyrite and potential pyrrhotite in weakly magnetic patches. Overall nonmagnetic. Common calcite veins with similar orientations and chloritic haloes. Rare felsic bands. Uncommon felsic bands 2-5cm wide parallel to foliation. \End Log				40417526	56.91 - 59.59 (m)	0.000882	6.7	0.0005	0.0004	0.001	0.002	0.05
							40417527	59.59 - 62 (m)	0.00484	43.1	0.0005	0.0019	0.005	0.002	0.23
							40417528	62 - 65 (m)	0.00594	43.9	0.0005	0.0022	0.001	0.006	0.21
59.59	71.09	Schist	Bleached granite with ~10% bt and 1% pyrite. Mineralization is disseminated in the metased and interstitial with bt in the granite. Unit is Moderately intergrown with the neighboring bt schist 80:20 ratio. Pegmatitic quartz bands 3-6cm thick cut the grt Moderate sericitization weak saussuritization. \End Log		59.59-71.09m 0.5% Blebby Pyrite		40417529	65 - 68 (m)	0.0065	36.8	0.0005	0.002	0.001	0.007	0.17
							40417531	68 - 71.09 (m)	0.00506	46.3	0.0005	0.0018	0.001	0.01	0.19
71.09	72.31	Granite	30%bt schist with common .5mm-1mm calcite veins throughout the unit. Common 2-5cm wide felsic intrusions in unit with blebby 0.5%py proximal in the schist. Felsic intrusives are irregular sharp and commonly boudinaged. Nonmagnetic unit. Saussuritic and sericitic alteration weak. Calcite vein frequency increases significantly in the last 1.5m of the unit. \End Log				40417532	71.09 - 72.31 (m)	0.000329	3.9	0.0005	0.0002	0.002	0.002	0.02
							40417533	72.31 - 75 (m)	0.00527	61.9	0.0005	0.0019	0.001	0.009	0.27
							40417534	75 - 78 (m)	0.00654	49.9	0.0005	0.0021	0.001	0.011	0.24
							40417535	78 - 81 (m)	0.00763	54	0.0005	0.0024	0.009	0.008	0.24
72.31	131.04	Schist	Variably grainsized medium-grained to pegmatitic bleached granite with weakly saussuritized plagioclase crystals. Nonmagnetic. 15%bt in unit. bt has been moderately chloritized. No apparent sulphides. Sharp and irregular contacts with metased \End Log		71.31-101.34m 0.01% Disseminated Pyrite		40417536	81 - 84 (m)	0.00423	40.6	0.0005	0.0015	0.001	0.009	0.2
							40417537	84 - 87 (m)	0.0069	55.7	0.0005	0.0023	0.001	0.009	0.33
							40417538	87 - 90 (m)	0.00777	54.1	0.0005	0.0022	0.001	0.004	0.26
							40417539	90 - 93 (m)	0.00697	43.2	0.0005	0.0021	0.007	0.002	0.21



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0									
132.09	150.24	Schist	30% bt schist with a medium- coarse-grained mafic band from 136.85-137.05 with no associated mineralization. 0.5cm to 2cm mafic bands common. Trace disseminated pyrite. Felsic bands range from 2-15cm width and vary from coarse to pegmatitic and are bleached granitic to tonalitic. Felsic bands rimmed by bt. Calcite veining is rare. Nonmagnetic. Partial melt zones common and up to 1.5m thick Diorite band identical to previous unit present from 132.67-133.10 \End Log		132.09-150.24m 0.01% Disseminated Pyrite		40417561	144 - 147 (m)	0.00584	52.9	0.0005	0.0022	0.012	0.005	0.28
							40417562	147 - 150.24 (m)	0.00578	38.7	0.0005	0.0016	0.01	0.009	0.37
150.24	151.52	Granite	Moderately magnetic granite with preserved K-feldspar intergrown with the surrounding bt schist. 1% py localized in bt and mt rich patches. A lens of medium grained bt, mt, qtz and py is present from 150.66-150.85. Contacts are sharp and the bottom contact of the unit follows foliation. \End Log		150.24-151.52m 1% Patchy Pyrite		40417563	150.24 - 151.52 (m)	0.00237	38.2	0.0005	0.0008	0.013	0.013	0.15
							40417564	151.52 - 153 (m)	0.00546	2.9	0.0005	0.0016	0.001	0.016	0.03
151.52	160.94	Schist	Partially melted bt schist with 25% medium to coarse bt. 1% diss pyrite in the unit with common euhedral pyrite cubes. Chlorite alteration in unit variable from strong pervasive to absent. Chlorite alteration zones have common calciteveins. Few 2-4cm felsic bands in unit. Calcite veins are up to 1cm thick. \End Log		151.52-160.94m 1% Disseminated Pyrite		40417565	153 - 156 (m)	0.00421	42.8	0.0005	0.0014	0.001	0.005	0.23
							40417566	156 - 159 (m)	0.00333	155.5	0.003	0.0013	0.001	0.007	0.32
160.94	162.26	Granite	Variably grainsized granite with weak interstitial bt and 0.1% pyrite associated with the interstitial bt. Moderate degree of saussurization and weak sericitization. Few pegmatitic kspar crystals. Sharp irregular contacts with the bt schist. Nonmagnetic \End Log		160.94-162.26m 0.1% Disseminated Pyrite		40417567	159 - 160.94 (m)	0.00407	169.5	0.001	0.0015	0.001	0.004	0.52
							40417568	160.94 - 162.21 (m)	0.000684	11.9	0.0005	0.0003	0.001	0.009	0.08
							40417569	162.21 - 165 (m)	0.00392	47.8	0.0005	0.0013	0.001	0.004	0.36
							40417571	165 - 168 (m)	0.00591	1.3	0.0005	0.0015	0.001	0.007	0.14
162.26	177	Schist	Medium grained bt schist with pegmatitic saussuritized granite from 162.9-163.60 featuring 2%py, 0.5% pyrite overall with few zones of elevated pyrite in the metased from 172.91-174 with 2% py. Calcite veining is common with no preferred orientation. Felsic bands average 1-2cm wide. Felsic zones are also present with coarse grained granitic rock is intergrown with the metased. \End Log		163.6-172.91m 0.1% Disseminated Pyrite		40417572	168 - 171 (m)	0.00435	1.7	0.007	0.0015	0.001	0.006	0.16
							40417573	171 - 174 (m)	0.00343	119.5	0.001	0.0012	0.003	0.004	0.41
							40417574	174 - 177 (m)	0.00435	27.6	0.0005	0.0015	0.001	0.005	0.11



HoleID **QTBL0016**

Claim # 228330 Hole Type Diamond

Project QUETICO SurveyType

Easting 666935 Hole Diameter NQ

Northing 5401348 Drill Company Downing Drilling

Azimuth 337.1405 Drill Rig NW

Dip -63 Start Date 19-Jul-2022

Total Length (m) 24 End Date 20-Jul-2022

Location 228330 Log Date 21-Nov-2022

CRS NAD83\_UTM\_15N Logged By Conner Arts

Sampled By

Hole Status Completed

Casing Depth (m) 9

Casing Left No

Sample Count 0

Assay Count 0

Overburden (m) 7.28

CoreLocation

Hole Condition

Scale 1:200

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0 0 0									
0	7.28	Overburden	OVB \End Log												
7.28	12.03	Schist	Bt schist with 35%bt and common calcite veins with chloritic vein haloes. 0.1%pyrite. Thin felsic bands 1-3cm wide common. This interval is somewhat fractured and altered by surface processes. Very rare 1cm mafic band at 8.68m. Nonmagnetic unit. \End Log												
12.03	12.64	Granite	Bleached granite pegmatite with a sharp upper contact and a brecciated bottom contact with the metasediment. No apparent sulphides. Coarse interstitial biotite and fine to medium grained apatites present. \End Log												
12.64	24	Schist	Bt schist with 35%bt and common felsic bands. Calcite veins common with chloritic vein haloes. No apparent sulphides. Rare 0.5cm to 3cm mafic bands. Coarse, chloritized zone from 20.81 to 21.05. 10cm meium grained felsic band at 21.17. \End Log												



HoleID **QTBL0017**

Claim #	228330	Hole Type	Diamond	Sampled By	Conner Arts
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	666934.96	Hole Diameter	NQ	Casing Depth (m)	12
Northing	5401351.83	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	338.6405	Drill Rig	NW	Sample Count	58
Dip	-54	Start Date	20-Jul-2022	Assay Count	58
Total Length (m)	135	End Date	22-Jul-2022	Overburden (m)	
Location	228330	Log Date	18-Aug-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Conner Arts	Hole Condition	Dry

Scale 1:150

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.04									
						0.01 0.03									
10.67	20.53	Schist	Medium grained 35%bt schist with 0.1% diss py and patchy py in felsic bands. Garnets present in schist. Multiple types of felsic bands (peg grt and coarse tonalite). Rare up to 9cm mafic bands in unit with no associated mineralization. \End Log		10.67-20.53m 0.075% Disseminated Pyrite 0.025% Patchy Pyrite		40417640	10.67 - 13 (m)	0.00601	53.3	0.002	0.0026	0.001	0.002	0.35
							40417642	13 - 16 (m)	0.00865	70.3	0.0005	0.003	0.001	0.007	0.36
							40417643	16 - 19 (m)	0.00616	48.9	0.002	0.0021	0.001	0.008	0.26
							40417644	19 - 20.53 (m)	0.00563	37.2	0.002	0.0018	0.001	0.005	0.19
							40417645	20.53 - 22 (m)	0.000557	19.9	0.002	0.0003	0.001	0.002	0.11
20.53	26.79	Granite	Variable textured granite with two distinctive textures. Pegmatitic textured GRT dominated by k-spar low alt and interstitial 10%bt. 2nd texture is med grained 50%bt rich GRT. 0.2% interstitial pyrite in unit associated with the bt occurrences. Contacts sharp between textural variances and neighboring units. \End Log		20.53-26.79m 0.2% Interstitial Pyrite		40417646	22 - 24 (m)	0.000547	13.3	0.002	0.0003	0.001	0.007	0.07
							40417647	24 - 26.79 (m)	0.000546	10.2	0.001	0.0002	0.006	0.002	0.05
26.79	30.74	Diabase	Diabase with 1% diss and vein hosted py/po. Vein related mineralization up to 0.5mm in size and disseminations 1mm in size. Potential subophitic texture in the diabase. Diabase is magnetic averaging 40-44x10^-3SI. Granitic band from 28.49-28.83m with abundant epidote proximal to the diabase in the granitic band. Upper contact lost and lower contact of the DIAB has an epidote alteration halo. \End Log		26.79-30.74m 0.5% Disseminated Pyrite 0.25% Vein Pyrrhotite 0.25% Vein Pyrite		40446134	26.79 - 28.79 (m)	0.0005	14	0.0005	0.0028	0	0	0.19
							40446135	28.79 - 30.74 (m)	0.0004	20	0.0005	0.0029	0	0	0.13
30.74	33.28	Granodiorite	Medium- to coarse- grained granodiorite with 40%bt that has been extensively fractured into rubble by the drill from 32.02 to 32.92. The granodiorite is weakly foliated denoted by bt. The GRD is more rusted closer to the DIAB contact. Trace diss pyrite. \End Log				40417648	30.74 - 33.28 (m)	0.001885	14.4	0.002	0.0009	0.001	0.005	0.11
							40417649	33.28 - 36 (m)	0.0075	45	0.002	0.0022	0.001	0.005	0.29
33.28	46.37	Schist	Medium- coarse- grained 40% bt schist with patchy 1% pyrite and common 3cm to 20cm felsic bands in the schist. Bands range from pegmatitic granitic to coarse granodioritic composition. Bt rich patches proximal to the bands. Rare thin 0.5cm mafic bands \End Log		33.28-46.37m 0.1% Patchy Pyrite		40417651	36 - 39 (m)	0.00803	52.3	0.003	0.0024	0.001	0.005	0.3
							40417652	39 - 42 (m)	0.00657	45.9	0.002	0.0023	0.001	0.004	0.25

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.04									
						0.01	0.03									
33.28	46.37	Schist	Medium- coarse- grained 40% bt schist with patchy 1% pyrite and common 3cm to 20cm felsic bands in the schist. Bands range from pegmatitic granitic to coarse granodioritic composition. Bt rich patches proximal to the bands. Rare thin 0.5cm mafic bands \End Log		33.28-46.37m 0.1% Patchy Pyrite			40417652	39 - 42 (m)	0.00657	45.9	0.002	0.0023	0.001	0.004	0.25
								40417653	42 - 45 (m)	0.0069	54	0.0005	0.0024	0.001	0.007	0.32
46.37	47	Granite	Bleached granite irregularly intergrown with neighboring schist. 0.5% interstitial pyrite. Granite contains 5%bt and sharply contacts neighboring units. Sericite all of bleached granite. \End Log		46.37-47m 0.5% Interstitial Pyrite			40417654	45 - 46.37 (m)	0.00597	45.6	0.002	0.0021	0.001	0.002	0.18
								40417655	46.37 - 47 (m)	0.00237	14.3	0.0005	0.0007	0.001	0.002	0.06
								40417656	47 - 50 (m)	0.00609	49.2	0.0005	0.0022	0.001	0.004	0.21
47	55.18	Schist	Foliated bt schist with variable bt content 25%-40%. Common qtz and felsic bands with with rare thin 1-3cm mafic bands intergrown with the bt schist. Trace diss py in the felsic bands. Sharp contacts with the neighboring units. \End Log					40417657	50 - 53 (m)	0.00476	42.4	0.0005	0.0017	0.001	0.004	0.18
								40417658	53 - 55.18 (m)	0.00712	51.5	0.0005	0.0024	0.001	0.005	0.23
55.18	58.81	Granite	10%bt pegmatitic granite with interstitial bt. No apparrent sulphides. Moderate degree of saussurization and sericitization. No apparrent mineralization. 40%kspar. Rare calcite veins. \End Log					40417659	55.18 - 57 (m)	0.000267	5.9	0.0005	0.0001	0.001	0.002	0.01
								40417661	57 - 58.81 (m)	0.000268	1.3	0.0005	0.0002	0.004	0.004	0.01
								40417662	58.81 - 61 (m)	0.00494	34.8	0.0005	0.0016	0.001	0.005	0.16
								40417663	61 - 64 (m)	0.00708	44.4	0.0005	0.0021	0.004	0.005	0.21
58.81	69.93	Schist	Varible bt content 25%-35% schist with common thick felsic bands up to 40cm thick. Trace 0.01%py felsic bands vary from pegmatitic to coarse grained with uniform granitic composition. Partially melted schist zones proximal to the felsic intrusions Sharp contacts. \End Log					40417664	64 - 67 (m)	0.00424	32.9	0.0005	0.0014	0.007	0.004	0.17
								40417665	67 - 69.93 (m)	0.00652	47.5	0.0005	0.002	0.001	0.002	0.26
69.93	71.05	Granite	Medium-grained to pegmatitic granite with equigranular zones. Moderately intergrown with neighboring schist. 5% bt. Nonmagnetic. No apparrent sulphides. Moderate sericitization of k-spar and weak patchy saussurization. Sharp contacts follow foliation. \End Log					40417666	69.93 - 71.05 (m)	0.000879	7.1	0.0005	0.0003	0.001	0.004	0.03
								40417667	71.05 - 74 (m)	0.00524	44	0.0005	0.0017	0.006	0.004	0.21
71.05	79.25	Schist	Varible bt content 25%-35% schist with common thick felsic bands up to 20cm thick. Trace 0.01%py felsic bands vary from pegmatitic to coarse grained with uniform granitic composition. Few quartz rich bands boudinaged. Nonmagnetic. Partially melted schist zones with coarser bt proximal to the felsic intrusions. 4cm mafic band at 75. Uncommon foliation subparallel calcite veins. \End Log		71.05-79.05m 0.01% Disseminated Pyrite			40417668	74 - 77 (m)	0.00681	46.5	0.0005	0.0021	0.008	0.002	0.21
								40417669	77 - 79.25 (m)	0.00962	42.2	0.0005	0.0022	0.001	0.005	0.2
79.25	81.93	Schist	Partially melted zone intergrown with felsic intrusive bands up to 22cm thick. 1% sulphide with patchy-disseminated to foliation parallel po and cp occurring together. Mineralization localized to the partially melted schist. Rare chloritized veinlets. \End Log		79.25-81.93m 0.5% Patchy Pyrrhotite 0.5% Patchy Chalcopyrite			40417671	79.25 - 81.93 (m)	0.00103	39.1	0.0005	0.0005	0.001	0.005	0.2

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.01									
						0.03									
79.25	81.93	Schist	Partially melted zone intergrown with felsic intrusive bands up to 22cm thick. 1% sulphide with patchy-disseminated to foliation parallel po and cp occurring together. Mineralization localized to the partially melted schist. Rare chloritized veinlets. \End Log		79.25-81.93m 0.5% Patchy Pyrrhotite 0.5% Patchy Chalcopyrite		40417671	79.25 - 81.93 (m)	0.00103	39.1	0.0005	0.0005	0.001	0.005	0.2
							40417672	81.93 - 84.5 (m)	0.000213	1.7	0.0005	0.0002	0.004	0.002	0.02
81.93	87.15	Granite	Variably textured granite with 5-20% interstitial bt. Well preserved euhedral K-feldspar crystals. No apparent sulphides. Moderate patchy saussuritization of plag. sharp foliation subparallel contacts with schist. Nonmagnetic. \End Log				40417673	84.5 - 87.15 (m)	0.000682	7	0.0005	0.0003	0.001	0.002	0.04
							40417674	87.15 - 89 (m)	0.00398	37	0.0005	0.0015	0.001	0.002	0.18
87.15	91.36	Schist	30%bt schist with uncommon mafic bands and common irregular calcite veins. Trace diss pyrite. with no association to the mafic bands. Weak chlorite vein haloes. Rare felsic bands of coarse grt have been boudinaged. Sharp irregular contacts. \End Log		87.15-91.36m 0.01% Disseminated Pyrite		40417675	89 - 91.36 (m)	0.00646	51.6	0.0005	0.002	0.001	0.002	0.26
							40417676	91.36 - 91.92 (m)	0.000825	9.2	0.0005	0.0003	0.002	0.002	0.04
91.36	91.92	Granite	medium-grained to pegmatitic granite with bleached ksp and increasing grain size towards the bottom contact. No apparent sulphide. Variable interstitial bt content. 1%-10%. Rare patches of saussuritization. \End Log				40417677	91.92 - 93.25 (m)	0.00631	47.5	0.0005	0.002	0.001	0.005	0.25
							40446136	93.25 - 95.25 (m)	0.0059	44	0.0005	0.002	0.004	0.001	0.23
							40203834	95.25 - 96.25 (m)	0.00658	54.5	0.0005	0.0021	0.001	0.007	0.18
							40203835	96.25 - 97.25 (m)	0.00492	84	0.0005	0.0016	0.001	0.004	0.13
							40203836	97.25 - 97.75 (m)	0.0314	5,150	0.421	0.0049	0.016	0.02	0.95
							40203838	97.75 - 98.75 (m)	0.00834	742	0.177	0.0022	0.001	0.005	0.31
							40203839	98.75 - 99.75 (m)	0.00702	66.2	0.001	0.0023	0.006	0.002	0.24
							40446137	99.75 - 101.75 (m)	0.0066	43	0.0005	0.002	0.001	0.001	0.3
91.92	113.49	Schist	Garnet rich 35% bt schist with partially melted zones from 111m to 113.49m. 0.1% disseminated and contact proximal sulphides in the unit except for a mineralized zone of 5%cp 97.33-97.72. Common felsic bands in unit averaging 4cm up to 27cm. Sharp foliation subparallel contacts \End Log		91.92-97.33m 0.1% Disseminated Pyrite		40446138	101.75 - 103.75 (m)	0.0057	43	0.0005	0.0019	0.001	0.001	0.22
							40446139	103.75 - 105.75 (m)	0.0068	40	0.0005	0.0019	0.001	0.001	0.15
							40446140	105.75 - 107.75 (m)	0.0063	46	0.002	0.0021	0.001	0.001	0.27
							40417678	107.75 - 110.75 (m)	0.00835	55.6	0.0005	0.0025	0.003	0.005	0.27
							40417679	110.75 - 113.49 (m)	0.00615	48.9	0.0005	0.0021	0.001	0.002	0.25
113.49	116.96	Granite	Varibaly grainsized granite with few granodioritic zones up to 10cm. No apparent sulphides. Rare pegmatitic zones. Weakly intergrown with partially melted schist at both upper and bottom contacts. Moderate sericitization and weak saussuritization. \End Log				40417681	113.49 - 115 (m)	0.000233	2.9	0.0005	0.0002	0.001	0.006	0.01
							40417682	115 - 116.96 (m)	0.000512	5.7	0.0005	0.0002	0.001	0.008	0.03
116.96	117.98	Schist	35%bt schist with rare 2mm mafic bands common irregular calcite veins and trace 0.01% diss pyrite. Common chlorite haloes around calcite veins. Irregular sharp contact at bottom and sharp foliation parallel contact at top. 1.6cm felsic band in unit. \End Log		116.96-117.98m 0.01% Disseminated Pyrite		40417683	116.96 - 117.98 (m)	0.0058	46.8	0.0005	0.002	0.007	0.005	0.22
117.98	131.05	Granite	Coarse-grained to pegmatitic variably textured granite with zones of bleached K-spar and high saussuritization and zones of well-preserved k-spar and low saussuritization. Weak intergrowth with schist in unit. No apparent sulphides. Sharp foliation parallel contacts. \End Log				40417684	117.98 - 120 (m)	0.000212	2.6	0.0005	0.0001	0.001	0.004	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.04									
						0.01	0.03									
117.98	131.05	Granite	Coarse-grained to pegmatitic variably textured granite with zones of bleached K-spar and high saussuritization and zones of well-preserved k-spar and low saussuritization. Weak intergrowth with schist in unit. No apparent sulphides. Sharp foliation parallel contacts. End Log					40417684	117.98 - 120 (m)	0.000212	2.6	0.0005	0.0001	0.001	0.004	0.01
								40417685	120 - 123 (m)	0.000899	8.7	0.0005	0.0003	0.001	0.005	0.03
								40417686	123 - 126 (m)	0.00014	0.9	0.0005	0.0001	0.002	0.005	0.01
								40417687	126 - 129 (m)	0.000221	1.4	0.0005	0.0001	0.001	0.005	0.01
								40417688	129 - 131.05 (m)	0.000221	1.6	0.0005	0.0001	0.001	0.006	0.01
131.05	135	Schist	35%bt schist with no apparent sulphides. Few 0.3-1.5cm mafic bands. Common calcite veining and banding of multiple generations cross-cutting and foliation parallel. Sharp contacts with felsic intrusive and common felsic bands up to 15cm thick. EOH End Log					40417689	131.05 - 133 (m)	0.00744	43.9	0.0005	0.0021	0.001	0.005	0.2
								40417691	133 - 135 (m)	0.00645	49.9	0.0005	0.0023	0.002	0.006	0.25





HoleID **QTBL0018**

Claim #	275544	Hole Type	Diamond	Sampled By	Nina Buchanan
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	666754.69	Hole Diameter	NQ	Casing Depth (m)	3
Northing	5401314.77	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	340.6405	Drill Rig	NW	Sample Count	167
Dip	-60	Start Date	22-Jul-2022	Assay Count	167
Total Length (m)	345	End Date	28-Jul-2022	Overburden (m)	2.33
Location	275544	Log Date	26-Aug-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Nina Buchanan	Hole Condition	Dry

Scale 1:110

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.05									
						0.02 0.03									
0	2.33	OVB													
2.33	13.15	Schist	Biotite schist +/- f-g subhedral garnet. @ 3.90-3.99m sheared zone with accumulated m-g garnets throughout and at base m-g diss py. @ 4.88-5.04m mod-foliated green hbl mafic band. @ 11.40m 5cm wide zone of c-g garnets. 2mm to 27cm wide tonalite bands with sharp contacts. F-g diss py associated with tonalite bands. Sharp lower contact. 1mm wide veins with orange rust. End Log		2.33-13.15m 0.01% Disseminated Pyrite		40417693	2.33 - 5.33 (m)	0.0104	62.1	0.0005	0.0031	0.001	0.006	0.24
							40417694	5.33 - 8.33 (m)	0.00722	54.2	0.0005	0.0025	0.001	0.005	0.24
							40417695	8.33 - 11.33 (m)	0.00751	48.6	0.0005	0.0024	0.001	0.005	0.18
							40417696	11.33 - 13.12 (m)	0.01015	66.4	0.0005	0.0031	0.001	0.007	0.22
13.15	13.71	Tonalite	~10 cm wide irregular section of bt garnet schist with sharp contacts with TON. Trace f-g diss py at lower contact of TON. ~5% f-g subhedral bt aligned. End Log		13.15-13.71m 0.01% Disseminated Pyrite		40417697	13.12 - 13.71 (m)	0.00541	26.7	0.0005	0.0017	0.001	0.004	0.07
							40417698	13.71 - 16.71 (m)	0.00747	50.6	0.0005	0.0023	0.002	0.007	0.17
13.71	20.4	Schist	@ 15.60-16m band of quartzolite. Throughout 1mm to 14cm wide tonalite bands along fol with sharp contacts. Few 1mm wide calcite veins. @ 18.91-19.11m band of f-g diabase with vf-g chill margin with cal veins. C-g bleb of py @ 19.25m within TON band. @ 19.58-19.66m wispy green hbl mafic bands. Trace f-g diss py associated with TON/quartzolite bands. End Log		13.71-20.4m 0.01% Disseminated Pyrite		40417699	16.71 - 18.71 (m)	0.00865	54.7	0.0005	0.0028	0.009	0.005	0.23
							40417701	18.71 - 20.4 (m)	0.00832	76.3	0.0005	0.0029	0.002	0.007	0.21
20.4	25.68	Granite	Weak sericite alt of plag. 1-5% f to m-g subhedral bt. Sharp upper and lower contacts. Lower contact irregular. End Log				40417702	20.4 - 21.68 (m)	0.000394	13	0.0005	0.0002	0.001	0.004	0.03

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05								
						0.02	0.03								
20.4	25.68	Granite	Weak sericite alt of plag. 1-5% f to m-g subhedral bt. Sharp upper and lower contacts. Lower contact irregular. \End Log				40446142	21.68 - 23.68 (m)	0.0006	8	0.0005	0.0002	0	0	0.02
							40203840	23.68 - 24.68 (m)	0.000262	7.1	0.0005	0.0001	0.001	0.002	0.03
							40203841	24.68 - 25.68 (m)	0.000723	10.8	0.0005	0.0001	0.009	0.002	0.04
25.68	26.78	Hornblendite	~1-5% m-g anhedral plag. 1mm wide plag vein. ~2% f-g interstitial bt. ~1% vf to f-g diss and m to c-g blebs of py. Trace f-g diss cpy with py/along margins. ~92-96% subhedral lathic hbl with weak serpentine alt. 35cm wide granitic band with 0.3% m/c-g blebs of py and cpy. Somewhat sharp irregular contacts. \End Log		25.68-26.78m 1% Blebbly Pyrite 0.1% Disseminated Chalcopyrite		40203842	25.68 - 26.11 (m)	0.0279	553	0.002	0.0026	0.086	0.059	0.3
							40203843	26.11 - 26.78 (m)	0.0757	385	0.001	0.0087	0.134	0.118	0.17
							40203845	26.78 - 27.78 (m)	0.00706	77.7	0.0005	0.0016	0.001	0.005	0.12
26.78	30.52	Schist	Bt schist. Common 1-5mm wide calcite veins some along fol. 4-41cm wide granite bands with sharp irregular grain boundaries. Vf to f-g trace diss py associated with margins of GRT bands. Trace vf-g diss py not throughout. GRT band proximal to lower contact has moderate patchy hematite alt of feldspar and 1mm wide epidote/cal vein. \End Log		26.78-30.52m 0.1% Disseminated Pyrite		40203846	27.78 - 28.78 (m)	0.00579	68.8	0.0005	0.0017	0.012	0.005	0.18
							40446143	28.78 - 30.52 (m)	0.0063	61	0.0005	0.0022	0.001	0.001	0.24
30.52	31.1	Diabase	Few 1mm wide calcite veins. 2cm wide chill margin at upper contact. Moderately magnetic. F-g anhedral/subhedral plag with weak hematite alt. No visible mineralization. Lower contact not visible. \End Log				40446144	30.52 - 31.1 (m)	0.0005	20	0.0005	0.0031	0	0	0.13
							40446145	31.1 - 33.1 (m)	0.0073	50	0.0005	0.0025	0.001	0.001	0.37
31.1	34.67	Schist	Bt schist. Common 1-3mm wide calcite veins some crosscutting. Some mixing with DIAB. 1-40cm wide m-g to peg granite bands with rare brecciation at contact. ~0.2% f-g diss py throughout. \End Log		31.1-34.67m 0.2% Disseminated Pyrite		40446146	33.1 - 34.7 (m)	0.0034	40	0.0005	0.0013	0	0.001	0.33
							40417703	34.7 - 37.7 (m)	0.0045	50.1	0.0005	0.0022	0.002	0.006	1.1
34.67	42.29	Schist	Bt schist. @36.77-36.81m vf-g DIAB band with sharp contacts crosscutting GRT band. From 34.67-39.90m ~1% f-g diss py and patchy mod epidote alt. From 39.90-39.97m strongly foliated bt-rich sheared zone. From 39.97-42.29m trace vf-g diss py and c-g plag porphyroblasts? Few 1mm wide calcite veins throughout. 5mm to 20cm wide granite bands with rare c-g py blebs. Sharp contacts. \End Log		34.67-39.9m 1% Disseminated Pyrite		40417704	37.7 - 40.7 (m)	0.00611	47.9	0.0005	0.0024	0.001	0.007	1.09
							40417705	40.7 - 42.26 (m)	0.00553	37.5	0.0005	0.0022	0.005	0.005	0.24
42.29	44.06	Granite	Bt-rich m-g GRT intermixed between peg GRT. F to m-g trace diss cubic py associated with bt. Few 1mm wide calcite veins with hematite alt. Sharp contacts. M-g GRT has ~15% aligned bt. Peg GRT has ~3% interstitial bt. \End Log		39.97-42.29m 0.1% Disseminated Pyrite		40417706	42.26 - 44.12 (m)	0.00084	15.3	0.0005	0.0005	0.001	0.004	0.11
							40417707	44.12 - 46.12 (m)	0.00131	13.3	0.0005	0.0006	0.001	0.004	0.08
44.06	48.65	Granite	17 to 30cm wide c-g to peg granite bands with sharp contacts. Accumulation of c-g bt along margins of one peg band associated with accumulation of 0.5% f-g diss py. \End Log		42.29-48.65m 0.5% Disseminated Pyrite		40417708	46.12 - 48.64 (m)	0.001475	15.3	0.0005	0.0008	0.001	0.004	0.08
48.65	49.64	Granite	1-5% interstitial bt. Weak sericite alt of feldspar. Few 1mm wide calcite veins. @49.52-49.61m bt-rich sheared zone. Trace f-g diss py. Sharp contacts. \End Log		48.65-49.64m 0.1% Disseminated Pyrite		40417709	48.64 - 49.64 (m)	0.001955	22.1	0.0005	0.0006	0.002	0.002	0.11
49.64	51.68	Granite	1-6mm wide greyish brown calcite veins. Trace diss f-g py. ~1cm wide c-g GRT bands. ~15% interstitial bt. \End Log		49.64-51.68m 0.1% Disseminated Pyrite		40417711	49.64 - 51.65 (m)	0.001335	9.7	0.0005	0.0007	0.001	0.002	0.06

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
49.64	51.68	Granite	1-6mm wide greyish brown calcite veins. Trace diss f-g py. ~1cm wide c-g GRT bands. ~15% interstitial bt. \End Log		49.64-51.68m 0.1% Disseminated Pyrite			40417711	49.64 - 51.65 (m)	0.001335	9.7	0.0005	0.0007	0.001	0.002	0.06
								40417712	51.65 - 53.65 (m)	0.000299	9.9	0.0005	0.0002	0.001	0.002	0.06
								40417713	53.65 - 56.38 (m)	0.00035	4.2	0.0005	0.0002	0.002	0.002	0.02
51.68	62.38	Granite	3-41cm wide m-g bt-rich GRT. 34cm wide m-g k-spar rich GRT band. Moderate hematite staining of feldspar proximal to lower contact. Weak sericite alt of feldspar. Localized 1mm wide calcite veins ~57.5m. Trace f-g diss py. \End Log		51.68-62.38m 0.01% Disseminated Pyrite			40446147	56.38 - 58.38 (m)	0.0008	5	0.0005	0.0003	0	0	0.05
								40446148	58.38 - 60.38 (m)	0.0004	1	0.0005	0.0001	0	0	0.02
								40203847	60.38 - 61.38 (m)	0.000158	1.9	0.0005	0.0001	0.003	0.002	0.005
								40203848	61.38 - 62.38 (m)	0.000194	2.2	0.0005	0.0001	0.01	0.002	0.01
62.38	64.24	Diabase	1-2mm wide anhedral black pyroxene? phenocrysts with mod calcite alt. 1mm wide calcite veins. ~1% m-g anhedral round diss py. Sharp contacts. Fragment of GRT at lower contact. \End Log		62.38-64.24m 1% Disseminated Pyrite			40203849	62.38 - 63.38 (m)	0.000314	12.7	0.0005	0.0033	0.01	0.006	0.14
								40203852	63.38 - 64.2 (m)	0.000286	13.9	0.0005	0.0033	0.014	0.008	0.13
								40203854	64.2 - 65.2 (m)	0.000237	5.6	0.0005	0.0001	0.008	0.007	0.03
								40203855	65.2 - 66.2 (m)	0.000188	1.5	0.0005	0.0001	0.001	0.004	0.02
								40446149	66.2 - 68.2 (m)	0.0004	2	0.0005	0.0001	0	0	0.01
64.24	71.88	Granite	Sharp irregular lower contact. 16cm wide m-g bt-rich GRT band. Few 1mm wide calcite veins. Weak sericite alt of feldspar. No visible mineralization. \End Log					40446151	68.2 - 70.2 (m)	0.0004	5	0.0005	0.0002	0	0	0.03
								40446152	70.2 - 71.88 (m)	0.0002	6	0.0005	0.0001	0	0	0.03
71.88	74.09	Granite	~10% subhedral aligned bt. 3-11 cm wide c to vc-g granite bands. 0.1% vf to f-g diss py. Sharp contacts. \End Log		71.88-74.09m 0.1% Disseminated Pyrite			40417714	71.88 - 74.09 (m)	0.00119	8	0.0005	0.0006	0.002	0.002	0.05
74.09	75.21	Granite	~1% interstitial bt. Sharp contacts. 0.01% vf-g diss py. \End Log		74.09-75.21m 0.01% Disseminated Pyrite			40417715	74.09 - 75.21 (m)	0.000247	5.6	0.0005	0.0002	0.001	0.002	0.03
								40417716	75.21 - 77 (m)	0.001235	8.9	0.0005	0.0006	0.001	0.002	0.05
75.21	79.11	Granite	~10% subhedral aligned bt. Rare 1mm wide calcite veins. 6-35cm wide vc-g GRT bands. 17 and 27cm wide SED bands within GRT. 0.05% vf-g diss py. Lower contact somewhat sharp and irregular. \End Log		75.21-79.11m 0.05% Disseminated Pyrite			40417717	77 - 79.11 (m)	0.00561	16.4	0.0005	0.0012	0.001	0.002	0.13
79.11	80.12	Granite	~2-5% interstitial bt. M-g bt and f-g diss py at upper contact. Anhedral ~0.1 magnetite also at/hear upper contact. Lower contact weakly brecciated and sharp. ~0.05% f-g diss py throughout. Common 1mm wide grey calcite veins. \End Log		79.11-80.12m 0.05% Disseminated Pyrite			40417718	79.11 - 80.12 (m)	0.000718	3.9	0.0005	0.0003	0.001	0.002	0.06

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
79.11	80.12	Granite	~2-5% interstitial bt. M-g bt and f-g diss py at upper contact. Anhedral ~0.1 magnetite also at/hear upper contact. Lower contact weakly brecciated and sharp. ~0.05% f-g diss py throughout. Common 1mm wide grey calcite veins. \End Log		79.11-80.12m 0.05% Disseminated Pyrite			40417718	79.11 - 80.12 (m)	0.000718	3.9	0.0005	0.0003	0.001	0.002	0.06
80.12	83.8	Schist	Bt schist. Rare 1mm wide calcite vein. 0.5% f-g diss py. 0.5-2cm wide m to c-g GRT bands/pods. \End Log		80.12-83.8m 0.5% Disseminated Pyrite			40417719	80.12 - 82.96 (m)	0.00743	38.3	0.0005	0.0022	0.001	0.004	0.46
83.8	84.71	Granite	1mm wide calcite vein. 2.5cm wide c-g granite bands. Feldspar has weak epi alt. 0.5% vf-g diss py with rare m-g blebs. Sharp upper contact. Gradational lower contact. \End Log		83.8-84.71m 0.5% Disseminated Pyrite			40417721	82.96 - 84.71 (m)	0.00481	31.7	0.0005	0.0018	0.001	0.002	0.21
84.71	87.06	Schist	Bt schist. Few 1m wide calcite veins with alt halos light grey/greenish. Irregular c-g GRT bands/pods some bands folded. 0.2% vf-g diss py. Sharp lower contact. \End Log		84.71-87.06m 0.2% Disseminated Pyrite			40417722	84.71 - 87.06 (m)	0.00915	45.4	0.0005	0.0025	0.001	0.007	0.27
87.06	89.88	Granite	Variable amounts of bt from ~1-10% in sections. Lower contact is somewhat gradational. 0.1% f-g diss py at lower contact. Weak green sericite alt of plag and weak bleaching of k-spar. \End Log		89.78-89.88m 0.1% Disseminated Pyrite			40417723	87.06 - 89.88 (m)	0.000283	3.4	0.0005	0.0001	0.001	0.002	0.02
89.88	92.84	Schist	Variable amounts of plag/qtz in bt schist. Few 1mm wide calcite veins. 0.5-22cm wide m to c-g GRT bands some sharp contacts some gradational. Sharp irregular lower contact. 0.05% vf-g diss py with f-g accumulation proximal to lower contact. \End Log		89.88-92.84m 0.05% Disseminated Pyrite			40417724	89.88 - 92.84 (m)	0.00595	48.7	0.0005	0.002	0.001	0.007	0.25
92.84	95.8	Granite	3-10% subhedral bt. Few <1mm wide calcite veins with hematite alt. Sharp contacts. Sharp contact btwn c-g and m-g GRT. C-g GRT has weak sericite alt of plag. \End Log					40417725	92.84 - 95.8 (m)	0.000225	1.4	0.0005	0.0002	0.001	0.004	0.01
95.8	97.4	Schist	Bt schist. <1mm wide calcite veins with alt halo. 1-20cm wide m to c-g GRT bands. ~0.5% vf-g diss py. Sharp contacts. \End Log		95.8-97.4m 0.5% Disseminated Pyrite			40417726	95.8 - 97.4 (m)	0.00646	52.3	0.0005	0.0021	0.001	0.002	0.23
								40417727	97.4 - 99 (m)	0.000147	1.4	0.0005	0.0001	0.001	0.009	0.01
97.4	104.51	Granite	~1-5% interstitial bt. k-spar weakly bleached in some sections. Plag has weak sericite alt. Sharp contacts. Rare 1mm wide calcite veins. \End Log					40417728	99 - 102 (m)	0.000126	1	0.0005	0.0001	0.001	0.006	0.01
								40417729	102 - 104.51 (m)	0.000115	1.1	0.0005	0.0001	0.001	0.002	0.01
104.51	107.32	Schist	Bt schist. Few 1-2mm wide calcite veins. 1-35 cm wide c-g GRT irregular bands few with brecciated contacts and weak sericite alt. Sharp contacts. 0.1% f-g diss py associated with bt in GRT bands or margins. \End Log		104.51-107.32m 0.1% Disseminated Pyrite			40417731	104.51 - 107.32 (m)	0.00548	39.1	0.001	0.0019	0.001	0.006	0.19
107.32	110.87	Granite	~2-5% bt. From 107.32-107.91m bt is elongate. 107.91-108.04m f-g bt schist. After 108.04m in GRT bt is lathic/interstitial. Plag has weak sericite alt. Sharp contacts. \End Log					40417732	107.32 - 109.53 (m)	0.000252	2.8	0.0005	0.0002	0.001	0.002	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
107.32	110.87	Granite	~2-5% bt. From 107.32-107.91m bt is elongate. 107.91-108.04m f-g bt schist. After 108.04m in GRT bt is lathic/interstitial. Plag has weak sericite alt. Sharp contacts. \End Log					40417732	107.32 - 109.53 (m)	0.000252	2.8	0.0005	0.0002	0.001	0.002	0.01
								40417733	109.53 - 110.87 (m)	0.000197	1.5	0.0005	0.0001	0.001	0.002	0.01
110.87	112.59	Schist	Bt schist. 1mm wide calcite veins with alt halos. 0.5-17 cm wide c-g GRT bands. Lower contact has gradational banded contact. \End Log					40417734	110.87 - 112.59 (m)	0.00664	54.1	0.003	0.0023	0.001	0.004	0.27
112.59	113.22	Granite	Bleached k-spar. Sharp lower contact. M-g garnets proximal to lower contact in GRT. \End Log					40417735	112.59 - 113.22 (m)	0.001165	9.7	0.0005	0.0004	0.001	0.006	0.06
113.22	114	Schist	Bt schist. Few 1mm wide calcite veins. 0.1% vf-g diss py. Sharp contacts. \End Log		113.22-114m 0.1% Disseminated Pyrite			40417736	113.22 - 114 (m)	0.00745	63	0.0005	0.0025	0.001	0.006	0.29
114	114.63	Granite	Bleached k-spar. M-g garnets within bt-rich zone near upper contact with 0.05% f-g diss py also present localized within unit with bt. 1mm wide calcite and radial chlorite veins. \End Log		114-114.63m 0.05% Disseminated Pyrite			40417737	114 - 114.63 (m)	0.000581	3	0.0005	0.0003	0.001	0.004	0.04
								40417738	114.63 - 117.63 (m)	0.00715	51.7	0.0005	0.0024	0.001	0.008	0.29
								40417739	117.63 - 120.63 (m)	0.0046	42.8	0.0005	0.0018	0.001	0.005	0.21
114.63	127.69	Schist	Bt schist with rare garnet. 0.5-33cm wide m to c-g GRT bands. Sharp contacts. Rare 1mm wide chlorite veins. From 125.24-125.38m in SED chl altered lathic hbl? green. 0.01% vf-g diss py not throughout. \End Log		114.63-130.45m 0.01% Disseminated Pyrite			40417741	120.63 - 123.63 (m)	0.00463	40.6	0.0005	0.0016	0.001	0.004	0.17
								40417742	123.63 - 125.61 (m)	0.00381	33.2	0.0005	0.0016	0.001	0.005	0.14
								40417743	125.61 - 127.69 (m)	0.0038	43.1	0.001	0.0017	0.001	0.008	0.2
127.69	128.16	Schist	Bt schist with m-g subhedral chl altered amphiboles. Sharp contacts. \End Log					40417744	127.69 - 128.21 (m)	0.0013	32.4	0.0005	0.0021	0.001	0.002	0.16
128.16	130.45	Schist	Bt schist. 0.5-33cm wide m to c-g GRT bands. Sharp contacts. 0.01% vf-g diss py not throughout. \End Log					40417745	128.21 - 130.45 (m)	0.00515	40.3	0.001	0.0017	0.001	0.008	0.16
								40417746	130.45 - 133.45 (m)	0.00119	8.3	0.0005	0.0005	0.001	0.005	0.03
130.45	157.91	Granite	~1-5% interstitial bt. Weak sericite alt of some plag crystals. From 132.85-133.25m f-g bt schist. Sharp contacts. \End Log		130.45-159.59m 0.25% Disseminated Pyrite			40417747	133.45 - 136.45 (m)	0.000124	0.8	0.0005	0.0001	0.001	0.005	0.005
								40417748	136.45 - 139.45 (m)	0.00014	0.7	0.0005	0.0002	0.001	0.002	0.01

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
130.45	157.91	Granite	~1-5% interstitial bt. Weak sericite alt of some plag crystals. From 132.85-133.25m f-g bt schist. Sharp contacts. \End Log		130.45-159.59m 0.25% Disseminated Pyrite			40417748	136.45 - 139.45 (m)	0.00014	0.7	0.0005	0.0002	0.001	0.002	0.01
								40417749	139.45 - 142.45 (m)	0.000157	1.3	0.0005	0.0001	0.001	0.002	0.01
								40417751	142.45 - 145.45 (m)	0.000137	1.1	0.0005	0.0001	0.001	0.002	0.01
								40417752	145.45 - 148.45 (m)	0.000113	1.3	0.0005	0.0001	0.001	0.002	0.01
								40417753	148.45 - 151.45 (m)	0.000152	1.1	0.0005	0.0001	0.001	0.002	0.01
								40417754	151.45 - 154.45 (m)	0.000112	0.8	0.0005	0.0001	0.001	0.007	0.005
								40417755	154.45 - 156.45 (m)	0.00015	1.2	0.0005	0.0001	0.001	0.002	0.01
								40417756	156.45 - 158 (m)	0.000251	2.1	0.0005	0.0001	0.001	0.002	0.01
157.91	158.95	Schist	Bt schist. Few 1mm wide calcite veins crosscut by 1mm wide qtz veins. From 158.95-159.55m SED with m-g lathic chl altered amphibole. 0.025% vf-g diss py. Rare c-g bleb of py. \End Log					40417757	158 - 158.95 (m)	0.00503	45.6	0.0005	0.0021	0.001	0.006	0.22
158.95	159.59	Schist	Bt schist with m-g lathic chl altered amphibole. Bt crystals grown over/in amph. 1mm wide calcite and chlorite veins. Regular bt schist from 159.55-159.59. \End Log					40446153	158.95 - 159.59 (m)	0.0024	40	0.0005	0.0029	0	0	0.19
159.59	160.15	Granite	~1-5% interstitial bt. Sharp contacts. Weak brecciation at lower contact. \End Log					40417758	159.59 - 160.15 (m)	0.000583	6.2	0.0005	0.0004	0.001	0.002	0.05
160.15	162.64	Schist	Some partial melting and mixing between SED and GRT bands. Sharp lower contact. 1-27cm wide GRT bands. 0.1% vf-g diss py. Rare 1mm wide calcite vein. \End Log		160.15-162.64m 0.1% Disseminated Pyrite			40417759	160.15 - 162.64 (m)	0.00505	35.2	0.0005	0.0017	0.009	0.005	0.16
162.64	166.7	Granite	Sharp contacts. ~2% interstitial bt. \End Log					40417761	162.64 - 164.64 (m)	0.000152	40.5	0.0005	0.0001	0.001	0.002	0.02
								40417762	164.64 - 166.7 (m)	0.00015	1.2	0.0005	0.0001	0.004	0.005	0.01
166.7	183.63	Schist	Bt schist. 0.5-22cm wide m-g to peg GRT bands. 8cm wide qtz band. Few 1mm wide calcite veins. Few 1mm wide qtz veins. Between 179.90-180.28m and 180.81-181.84m 2-35cm wide lathic chl alt amphibole SED bands present. 0.1% vf-g diss py. \End Log		166.7-183.63m 0.1% Disseminated Pyrite			40417763	166.7 - 169.7 (m)	0.0055	44.7	0.0005	0.0018	0.001	0.004	0.23

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
166.7	183.63	Schist	Bt schist. 0.5-22cm wide m-g to peg GRT bands. 8cm wide qtz band. Few 1mm wide calcite veins. Few 1mm wide qtz veins. Between 179.90-180.28m and 180.81-181.84m 2-35cm wide lathic chl alt amphibole SED bands present. 0.1% vf-g diss py. End Log		166.7-183.63m 0.1% Disseminated Pyrite			40417763	166.7 - 169.7 (m)	0.0055	44.7	0.0005	0.0018	0.001	0.004	0.23
								40417764	169.7 - 172.7 (m)	0.00546	42.9	0.0005	0.0019	0.001	0.002	0.18
								40417765	172.7 - 175.7 (m)	0.00621	49.1	0.0005	0.0021	0.001	0.004	0.21
								40417766	175.7 - 178.7 (m)	0.00849	57.3	0.0005	0.0027	0.001	0.004	0.22
								40417767	178.7 - 180.7 (m)	0.00693	44	0.0005	0.0022	0.001	0.004	0.23
								40417768	180.7 - 183.63 (m)	0.00953	39.6	0.0005	0.0021	0.001	0.006	0.19
183.63	185.87	Granite	Bleaches k-spar. Few 1mm wide chlorite veins. 0.5% f-g diss py some in clusters. 1-30 cm wide c-g GRT bands some sharp contacts some diffuse. Variable amounts of bt from ~2-20% in different bands. Few 1mm wide calcite veins. Sharp contacts. End Log		183.63-185.87m 0.5% Disseminated Pyrite			40417769	183.63 - 185.87 (m)	0.00103	41.2	0.0005	0.0005	0.001	0.005	0.29
185.87	187.43	Schist	Bt schist. Rare 1mm wide calcite veins some with py. 2-4 cm wide c-g GRT bands/pods. Sharp lower contact. 0.25% f-g diss py. End Log		185.87-187.43m 0.25% Disseminated Pyrite			40417771	185.87 - 187.43 (m)	0.00574	37.4	0.0005	0.0019	0.001	0.002	0.31
187.43	190.19	Granite	~20% interstitial bt. Sharp contacts. Few 1mm wide calcite veins. 0.5% f-g diss py. Few qtz/calcite veins. Few ~1cm wide c-g GRT bands with diffuse contacts. End Log		187.43-190.19m 0.5% Disseminated Pyrite			40417772	187.43 - 190.19 (m)	0.0028	11.8	0.0005	0.001	0.001	0.002	0.22
								40417773	190.19 - 193.19 (m)	0.0066	50.6	0.0005	0.0023	0.001	0.006	0.27
190.19	196.16	Schist	Garnet bt schist. Common 1mm wide calcite veins. Common 1mm wide calcite veins. 1-7cm wide m to c-g GRT bands mostly with irregular boundaries. 2mm to 10cm wide mod foliated green mafic bands present within 193.70-194m and 194.50-194.55m and 195.50-195.65m. End Log					40417774	193.19 - 196.19 (m)	0.00797	54.4	0.001	0.0025	0.001	0.007	0.25
								40417775	196.19 - 199.19 (m)	0.01065	168	0.001	0.0029	0.001	0.008	0.28
196.16	227.95	Schist	Bt schist. Few 1mm wide calcite veins cutting fol. 1-49cm wide m to c-g GRT bands. 1-7cm wide mod foliated green mafic bands dominantly tabular hbl. Wispy 1-2mm wide grey/green chl/qtz veins cross-cutting GRT bands and SED fol @203.25-203.40m. Grey/green chl/qtz veins present throughout unit some displaying offsets of GRT bands. Rare 1mm wide qtz veins. Weak chl alt of bt schist in sections- light grey in colour. 0.1% f to m-g diss py associated with GRT bands and some SED sections. End Log		196.16-227.95m 0.1% Disseminated Pyrite											

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
196.16	227.95	Schist	Bt schist. Few 1mm wide calcite veins cutting fol. 1-49cm wide m to c-g GRT bands. 1-7cm wide mod foliated green mafic bands dominantly tabular hbl. Wispy 1-2mm wide grey/green chl/qtz veins cross-cutting GRT bands and SED fol @203.25-203.40m. Grey/green chl/qtz veins present throughout unit some displaying offsets of GRT bands. Rare 1mm wide qtz veins. Weak chl alt of bt schist in sections- light grey in colour. 0.1% f to m-g diss py associated with GRT bands and some SED sections. End Log		196.16-227.95m 0.1% Disseminated Pyrite			40417775	196.19 - 199.19 (m)	0.01065	168	0.001	0.0029	0.001	0.008	0.28
								40417828	199.19 - 202.19 (m)	0.00816	46.5	0.0005	0.0022	0.001	0.007	0.23
								40417829	202.19 - 205.19 (m)	0.00739	54.2	0.0005	0.0024	0.003	0.002	0.29
								40417831	205.19 - 208.19 (m)	0.00733	64.3	0.0005	0.0024	0.001	0.004	0.25
								40417832	208.19 - 211.19 (m)	0.00613	56.8	0.0005	0.0023	0.001	0.002	0.26
								40417833	211.19 - 214.19 (m)	0.00728	49.3	0.001	0.0023	0.001	0.002	0.25
								40417834	214.19 - 217.19 (m)	0.00787	50.5	0.0005	0.0021	0.001	0.002	0.25
								40417835	217.19 - 220.19 (m)	0.0061	46.3	0.0005	0.0019	0.001	0.005	0.21
								40417836	220.19 - 223.19 (m)	0.00936	42.7	0.0005	0.0022	0.001	0.004	0.26
								40417837	223.19 - 226.19 (m)	0.00682	51.1	0.001	0.0021	0.001	0.005	0.21



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.05									
						0.02 0.03									
196.16	227.95	Schist	Bt schist. Few 1mm wide calcite veins cutting fol. 1-40cm wide m to c-g GRD bands. 1-7cm wide mod foliated green mafic bands dominantly tabular hbl. Wispy 1-2mm wide grey/green chl/qtz veins cross-cutting GRT bands and SED fol @203.25-203.40m. Grey/green chl/qtz veins present throughout unit some displaying offsets of GRT bands. Rare 1mm wide qtz veins. Weak chl alt of bt schist in sections- light grey in colour. 0.1% f to m-g diss py associated with GRT bands and some SED sections. \End Log		196.16-227.95m 0.1% Disseminated Pyrite		40417837	223.19 - 226.19 (m)	0.00682	51.1	0.001	0.0021	0.001	0.005	0.21
							40417838	226.19 - 227.95 (m)	0.00646	43.7	0.0005	0.0021	0.001	0.004	0.22
227.95	229.59	Granodiorite	Weak brecciation at upper contact and in bt-rich zone. Offset of fragment bt qtz vein. Few 1mm wide calcite veins. Lower contact sharp. ~0.5-10% interstitial bt. ~0.1% f-g diss py with bt. Bleached k-spar. \End Log		227.95-229.59m 0.1% Disseminated Pyrite		40417839	227.95 - 229.59 (m)	0.000708	5.8	0.001	0.0003	0.001	0.002	0.04
229.59	231.17	Schist	Bt schist. 2mm to 15cm wide m to c-g GRD bands along fol. <1mm wide calcite veins against fol. Diffuse lower contact. 0.1% v-f-g diss py. \End Log		229.59-231.17m 0.1% Disseminated Pyrite		40417841	229.59 - 231.17 (m)	0.00585	39.5	0.0005	0.0019	0.001	0.002	0.18
231.17	232.88	Granodiorite	~0.5-2% interstitial bt. Diffuse lower contact with m-g bt. Few 1mm wide calcite veins. \End Log				40417842	231.17 - 232.88 (m)	0.000214	2.5	0.0005	0.0001	0.001	0.002	0.01
232.88	233.86	Schist	Bt schist. Weak chl alt in sections of bt-light grey and higher % of qtz/plag. Localized 1mm wide band of f-g diss py @ 233.28m. 0.5-2cm wide bands of m-g GRD. 10cm wide pod of c-g GRD. Diffuse lower contact- partial melting and mixing? \End Log		233.28-233.28m 0.5% Disseminated Pyrite		40417843	232.88 - 233.86 (m)	0.00488	51.1	0.0005	0.0017	0.001	0.002	0.26
233.86	235.47	Granodiorite	Bleached k-spar. Diffuse lower contact- partial melting and mixing? .1-1% interstitial bt. ~0.25% f-g diss py in upper and lower contact zones. \End Log		233.86-235.47m 0.25% Disseminated Pyrite		40417844	233.86 - 235.47 (m)	0.000354	4.8	0.0005	0.0001	0.001	0.002	0.02
235.47	236.5	Schist	Bt schist. Sharp lower contact. 7mm to 2cm wide m/c-g GRD bands. Few bleached alt halo veins 1mm wide. Zone of weak chl altered bt ~45 cm wide with slightly coarser-grained qtz/plag SED. C-g anhedral calcite blebs. 0.1% f-g diss py. \End Log		235.47-236.5m 0.1% Disseminated Pyrite		40417845	235.47 - 236.5 (m)	0.00537	39	0.0005	0.0019	0.001	0.002	0.22
236.5	237.14	Granodiorite	Bleached k-spar. ~0.5% interstitial bt. Sharp contacts. Rare 1mm wide calcite vein. \End Log				40417846	236.5 - 237.14 (m)	0.000358	7.3	0.0005	0.0001	0.001	0.002	0.02
							40417847	237.14 - 240.14 (m)	0.00663	39.7	0.002	0.0021	0.001	0.002	0.21
237.14	242.02	Schist	Bt schist. 1mm wide bleached alt halos against fol. Few 1mm wide chl veins against fol. 1-2cm wide calcite veins. 0.5-27cm wide m to c-g GRD bands. Variable % of bt in SED from 30-55%. Coarser-grained section associated with weak chl alt of bt. 0.01% f-g diss py associated with GRD bands. \End Log		237.14-242.02m 0.01% Disseminated Pyrite		40417848	240.14 - 242.02 (m)	0.00533	29.9	0.0005	0.0017	0.001	0.004	0.15
242.02	243.06	Granodiorite	Sharp contacts. ~1-10% interstitial bt. Bleached k-spar. Weak sericite alt of c-g plag. \End Log				40417849	242.02 - 243.06 (m)	0.000554	2.7	0.0005	0.0002	0.001	0.002	0.01
243.06	244.18	Schist	Bt schist. 3mm to 3.5 cm wide GRD bands along fol some sharp contacts some diffuse. Rare 1mm wide calcite vein. Bleached alt halo veins 1mm wide. \End Log				40417851	243.06 - 244.18 (m)	0.00625	43.8	0.0005	0.0021	0.001	0.004	0.21
							40417852	244.18 - 246.85 (m)	0.00472	8.6	0.0005	0.001	0.001	0.005	0.05
244.18	249.4	Granodiorite	Sharp lower contact. 1-10% interstitial bt. Few areas of bt-rich bands. @245.54-245.77m mod fol SED section. @246.65-246.85m mixing btwn GRD and SED in irregular interchanging bands. Few 1mm wide qtz/chl veins. Bleached k-spar. Patches of weak sericite altered plag. \End Log				40417853	246.85 - 249.4 (m)	0.000672	5.1	0.0005	0.0003	0.001	0.002	0.02
249.4	253.62	Schist	Bt schist. Sharp contacts. Rare 1mm wide qtz veins with 5mm of offset. 5mm to 30cm wide m to c-g GRD bands along fol. @250.25-250.45m zone of 1-5mm wide SED and green hbl-rich green mafic bands and weak green chl alt GRD bands with ~1% f-g diss py. Common zones of weak chl alt bt SED-light grey. 1-5mm wide bleached alt halos against fol. Most prevalent in m-g GRD bands being apparently being cross-cut by chl-alt SED bands @252.33-252.53m. \End Log		250.25-250.45m 1% Disseminated Pyrite		40417854	249.4 - 251.33 (m)	0.00817	64.6	0.0005	0.0025	0.001	0.002	0.25
							40417855	251.33 - 253.62 (m)	0.00441	29.3	0.0005	0.0015	0.001	0.002	0.17
253.62	254.45	Granodiorite	M-g blue/green anhedral trace fluorite? ~2-3% interstitial bt. 0.25% f-g diss py. \End Log		253.62-254.45m 0.25% Disseminated Pyrite		40417856	253.62 - 254.45 (m)	0.001065	15.3	0.0005	0.0005	0.001	0.002	0.08
254.45	263.38	Schist	Bt schist +/- m-g garnet. 1cm wide green hbl-rich mafic band @258.67m. 5mm to 38cm GRD bands along fol. Rare 1mm wide calcite veins. 0.1% f-g diss py. Few 1mm wide qtz veins with offset. Zones of chl altered bt SED. \End Log		254.45-263.38m 0.1% Disseminated Pyrite		40417857	254.45 - 257.45 (m)	0.0061	41.1	0.0005	0.002	0.001	0.004	0.19

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
254.45	263.38	Schist	Bt schist +/- m-g garnet. 1cm wide green hbl-rich mafic band @258.67m. 5mm to 38cm GRD bands along fol. Rare 1mm wide calcite veins. 0.1% f-g diss py. Few 1mm wide qtz veins with offset. Zones of chl altered bt SED. \End Log		254.45-263.38m 0.1% Disseminated Pyrite			40417857	254.45 - 257.45 (m)	0.0061	41.1	0.0005	0.002	0.001	0.004	0.19
								40417858	257.45 - 260.45 (m)	0.00541	34.3	0.0005	0.0017	0.001	0.004	0.17
								40417859	260.45 - 263.38 (m)	0.00787	55.7	0.0005	0.0025	0.001	0.004	0.26
263.38	265.3	Granodiorite	~10-20% subhedral m-g hbl aligned with fol decreasing with depth. Hbl less well formed with depth and weak chl alt. ~ 5-20% lathic bt increasing with depth. 1-5mm wide irregular qtz veins cutting fol. 1mm wide chl vein cutting fol. @264.10-264.20m mod fol hbl-rich mafic band and @264.61-264.62m. 0.5% f-g diss py. Weak sericite alt of plag. @264.73-265.03 and 265.18-265.30 ~1-2% interstitial bt. \End Log		263.38-265.3m 0.5% Disseminated Pyrite			40446161	263.38 - 265.3 (m)	0.0044	42	0.0005	0.0015	0.001	0.001	0.24
								40417861	265.3 - 268.3 (m)	0.00703	52.6	0.0005	0.0023	0.001	0.004	0.27
								40417862	268.3 - 271.3 (m)	0.00808	53.7	0.001	0.0024	0.001	0.005	0.24
265.3	277.62	Schist	Bt schist. 3mm to 40cm wide m to c-g GRD bands along fol. Zones of chl altered bt SED. Sharp irregular upper and lower contact. Few 1mm wide calcite veins some with py. Few 1-2mm wide wispy qtz veins. 0.5-4.5cm wide green hbl-rich mafic bands mod fol. 0.25% vf to f-g diss py. \End Log		265.3-277.62m 0.25% Disseminated Pyrite			40417863	271.3 - 274.3 (m)	0.00707	37.5	0.0005	0.0021	0.001	0.002	0.24
								40417864	274.3 - 276 (m)	0.00721	53.6	0.0005	0.0024	0.001	0.004	0.27
								40417865	276 - 277.62 (m)	0.00688	42.8	0.0005	0.0021	0.001	0.002	0.2
277.62	278.27	Granodiorite	Lower contact sharp along fol. ~0.5-8% interstitial bt. Bleached k-spar. \End Log					40417866	277.62 - 278.27 (m)	0.000318	10.8	0.0005	0.0002	0.001	0.002	0.05
								40417867	278.27 - 281.27 (m)	0.00905	53.7	0.0005	0.0026	0.001	0.002	0.28
278.27	284	Schist	Bt schist +/- m-g garnet. Few 1mm wide calcite veins. 2mm wide qtz vein with 7mm of offset. <1mm wide qtz veins with green alt halos in GRT band and bleached halo in SED. Few 2mm to 1.5 cm wide mod fol green hbl-rich mafic bands. 1mm to 17cm wide m to c-g GRD bands. C-g bands have irregular boundaries. M-g along fol. Lower contact somewhat diffuse. \End Log					40417868	281.27 - 284 (m)	0.00891	58.9	0.0005	0.0027	0.001	0.004	0.27

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.02	0.03								
278.27	284	Schist	Bt schist +/- m-g garnet. Few 1mm wide calcite veins. 2mm wide qtz vein with 7mm of offset.				40417868	281.27 - 284 (m)	0.00891	58.9	0.0005	0.0027	0.001	0.004	0.27
284	285.67	Granodiorite	<1mm wide qtz veins with green alt halos in GRT band and bleached halo in SED. Few 2mm to 1.5 cm wide mod fol green hbl-rich mafic bands. 1mm to 1cm wide m to c-g GRD bands. M-g bands have irregular boundaries. M-g along fol. Lower contact somewhat diffuse.				40417869	284 - 285.67 (m)	0.000564	3.5	0.0005	0.0002	0.001	0.004	0.02
285.67	286.75	Schist	Bt schist @ 286.28-286.50m and 286.54-286.58m mod fol green hbl-rich mafic bands. 0.1% f-g diss py. 0.5-3cm wide m-g GRD bands. Diffuse lower contact. \End Log	285.67-286.75m 0.1% Disseminated Pyrite			40417871	285.67 - 286.75 (m)	0.01835	49.5	0.001	0.0032	0.001	0.005	0.23
286.75	287.4	Schist	Bt schist with ~25% chl altered hbl. ~25% lathic bt. Anhedral patches of m/c-g qtz/plag. Few 1-2mm wide calcite veins. 0.1% f-g diss py.	286.75-287.4m 0.1% Disseminated Pyrite			40446162	286.75 - 287.4 (m)	0.0296	21	0.001	0.0041	0.004	0.003	0.07
287.4	288	Schist	Bt schist. 1mm wide calcite veins against fol. Sharp lower contact. \End Log				40417872	287.4 - 288 (m)	0.00952	55.2	0.001	0.0028	0.001	0.005	0.25
288	289.49	Granodiorite	Few 1-7mm wide wispy qtz veins some with calcite. Sharp lower contact along fol. Some plag crystals have weak sericite alt. 0.01% f-g diss py with bt-rich zone. ~3% interstitial bt. \End Log	288-289.49m 0.01% Disseminated Pyrite			40417873	288 - 289.49 (m)	0.00051	13	0.0005	0.0002	0.001	0.006	0.03
289.49	292.48	Schist	Bt schist. Sharp irregular lower contact. 0.5-22cm wide m to c-g GRD bands. \End Log				40417874	289.49 - 292.48 (m)	0.0069	45.6	0.0005	0.0021	0.002	0.004	0.23
292.48	294	Granodiorite	Lower contact sharp along fol. ~2% interstitial bt. Bleached k-spar. \End Log				40417875	292.48 - 294 (m)	0.000285	2	0.0005	0.0001	0.001	0.002	0.02
					289.49-305.61m 0.01% Disseminated Pyrite										
294	305.61	Schist	Bt schist +/- m-g garnet. @303.26-303.28m discontinuous band of qtz/plag/bt and euhedral c-g hbl crystals. @299.80-300.35m zone of chl alt bt SED. 3mm to 8cm wide m to c-g GRD bands. M-g bands along fol. C-g bands irregular and discontinuous. Few 1mm wide calcite veins some with alt halos. Few 1-5mm wide green hbl-rich mafic bands. Cross-cutting bleached alt halos. 2mm wide qtz/feldspar vein. Trace f-g diss py associated with c-g GRD bands. \End Log				40417876	294 - 297 (m)	0.00877	58.5	0.0005	0.0026	0.001	0.008	0.3
							40417877	297 - 300 (m)	0.00887	59.7	0.001	0.0027	0.001	0.007	0.28
							40417878	300 - 303 (m)	0.0083	55.2	0.0005	0.0024	0.001	0.002	0.31
							40417879	303 - 305.61 (m)	0.00776	50.3	0.0005	0.0024	0.001	0.002	0.3
305.61	306.34	Granodiorite	~2% bt in clusters. Sharp irregular upper and lower contacts. 1mm wide wispy calcite veins. \End Log				40417881	305.61 - 306.34 (m)	0.000938	7.7	0.0005	0.0004	0.001	0.002	0.03
							40417882	306.34 - 309.34 (m)	0.00871	52.2	0.0005	0.0027	0.001	0.004	0.19
306.34	314.03	Schist	Bt schist +/- f to m-g garnets rare c-g. Some sections are ~20% garnet. 1mm to 1cm wide m to c-g GRD bands. Rare amethyst in c-g bands. Rare cross-cutting 1mm wide bleached alt halos. 2mm to 4cm wide green mod fol hbl-rich mafic bands near upper contact. Few 2mm wide wispy calcite veins. \End Log				40417883	309.34 - 312.34 (m)	0.00939	68.1	0.0005	0.003	0.001	0.004	0.25
							40417884	312.34 - 314.03 (m)	0.00836	56.8	0.0005	0.0026	0.001	0.005	0.29

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.02	0.03								
306.34	314.03	Schist	Bt schist +/- f to m-g garnets rare c-g. Some sections are ~20% garnet. 1mm to 11cm wide m to c-g GRD bands. Rare amethyst in c-g bands. Rare cross-cutting 1mm wide bleached alt halos. 2mm to 4cm wide green mod fol hbl-rich mafic bands near upper contact. Few 2mm wide wispy calcite veins. \End Log				40417884	312.34 - 314.03 (m)	0.00836	56.8	0.0005	0.0026	0.001	0.005	0.29
314.03	316.32	Granodiorite	@314.66-314.72m weak fol bt-rich zone with m-g qtz/feldspar with trace f-g diss py. ~0.5-3% interstitial bt. Bleached k-spar. Sharp contacts somewhat along fol. \End Log		314.03-316.32m 0.01% Disseminated Pyrite		40417885	314.03 - 316.32 (m)	0.00062	5.3	0.0005	0.0002	0.001	0.002	0.04
316.32	319.67	Schist	Bt schist with localized bands of m to c-g garnet. 0.5-11cm wide GRD/Qtz bands some with irregular boundaries. Garnet at margin of some GRD band. Rare trace f-g diss py with GRD band. Few 1mm wide calcite veins against fol. Irregular sharp lower contact. \End Log		316.32-319.67m 0.01% Disseminated Pyrite		40417886	316.32 - 318 (m)	0.00645	47.5	0.0005	0.0022	0.001	0.002	0.21
							40417887	318 - 319.67 (m)	0.00646	43.5	0.0005	0.0022	0.001	0.004	0.17
319.67	320.66	Granodiorite	1cm wide band of garnet bt schist near upper contact. ~1-2% interstitial bt. Rare 1mm wide calcite vein. Somewhat sharp irregular lower contact with ~0.1% f-g diss py. \End Log		319.67-320.66m 0.1% Disseminated Pyrite		40417888	319.67 - 320.66 (m)	0.00104	10.2	0.0005	0.0004	0.001	0.006	0.06
320.66	321.14	Schist	Bt schist. 1mm wide chl vein along fol. 10 cm wide diffuse zone of partial mixing btwn GRD and SED with trace f-g diss py. Irregular sharp lower contact. \End Log		320.66-321.14m 0.1% Disseminated Pyrite		40417889	320.66 - 321.14 (m)	0.00589	39.5	0.0005	0.002	0.001	0.005	0.17
321.14	322.68	Granodiorite	GRD with ~1% interstitial bt. Sharp contacts with zones of partial melting and mixing btwn SED and GRD- m-g feldspar/Qtz rich area. Few 1mm wide calcite veins. Few 1mm wide irregular chl veins with offset. 0.01% f-g diss py. \End Log		321.14-322.68m 0.01% Disseminated Pyrite		40417891	321.14 - 322.68 (m)	0.00426	16.7	0.0005	0.0008	0.001	0.002	0.09
							40417892	322.68 - 325.68 (m)	0.00677	52.4	0.0005	0.0022	0.001	0.007	0.23
322.68	332.72	Schist	Bt schist +/- f to m-g garnet. ~5% garnet in sections. Common cross-cutting fol 1-3mm wide bleached alt halos. Few 1mm wide calcite veins some with alt halos. 1mm to 30cm wide m to c-g GRD bands. 0.1% f-g diss py not throughout unit. Zones of chl alt of bt SED-light grey. Sharp contacts. \End Log		322.68-332.72m 0.1% Disseminated Pyrite		40417893	325.68 - 328.68 (m)	0.00785	53.2	0.001	0.0025	0.001	0.004	0.27
							40417894	328.68 - 330.68 (m)	0.00861	56.4	0.0005	0.0027	0.001	0.002	0.28
							40417895	330.68 - 332.72 (m)	0.00581	54.1	0.0005	0.0021	0.001	0.002	0.21
332.72	333.54	Granodiorite	Bleached k-spar. ~3% interstitial bt. Few 1mm wide Qtz veins. Rare <1mm wide calcite vein. Sharp contacts. Trace vf-g diss py. 7cm wide pod of bt schist. \End Log		332.72-333.54m 0.01% Disseminated Pyrite		40417896	332.72 - 333.54 (m)	0.001025	17.1	0.0005	0.0005	0.001	0.002	0.08
333.54	338.14	Schist	Bt schist +/- f to m-g garnet. sections have 2-10% garnet. Few 1mm wide Qtz veins with ~5mm of offset. Rare 1mm wide calcite veins. 0.5-8cm wide m to c-g GRD bands. Sharp contacts. @334.78-334.87m mod fol green hbl-rich mafic band. ~0.5% f-g diss py proximal to c-g GRD bands within SED. @336.27-336.33m m-g blebs of py and vc-g patches of chl with vc-g GRD. \End Log		333.54-338.14m 0.5% Disseminated Pyrite		40417897	333.54 - 336.54 (m)	0.00741	53.5	0.0005	0.0026	0.001	0.004	0.23
							40417898	336.54 - 338.14 (m)	0.00846	57.1	0.001	0.0027	0.001	0.004	0.26
338.14	339.92	Granodiorite	Few 1mm wide calcite veins. In c-g section in bt clusters m-g garnets present. Sharp lower contact. Few 1mm wide Qtz veins. ~8% bt in m-g section. In c-g section ~1% bt. \End Log		338.14-345m 0.1% Disseminated Pyrite		40417899	338.14 - 339.92 (m)	0.000254	4.4	0.0005	0.0002	0.001	0.002	0.01
339.92	345	Schist	Bt schist. Common 1mm wide calcite. Few 1mm to 2cm wide Qtz/chl veins. 0.1% f-g diss py. 2mm to 2cm wide c-g GRD bands. EOH. \End Log				40417901	339.92 - 342.92 (m)	0.00759	71.6	0.001	0.0025	0.001	0.005	0.27

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
339.92	345	Schist	Bt schist. Common 1mm wide calcite. Few 1mm to 2cm wide qtz/chl veins. 0.1% f-g diss py. 2mm to 2cm wide c-g GRD bands. EOH. End Log		338.14-345m 0.1% Disseminated Pyrite			40417901	339.92 - 342.92 (m)	0.00759	71.6	0.001	0.0025	0.001	0.005	0.27
								40417902	342.92 - 345 (m)	0.00832	57	0.0005	0.0026	0.001	0.006	0.26



HoleID **QTBL0019**

Claim #	228330	Hole Type	Diamond	Sampled By	Greg Galloway
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	667034.26	Hole Diameter	NQ3	Casing Depth (m)	9
Northing	5401460.21	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	180.6405	Drill Rig	NW	Sample Count	69
Dip	-45	Start Date	28-Jul-2022	Assay Count	69
Total Length (m)	134.1	End Date	30-Jul-2022	Overburden (m)	8.46
Location	228330	Log Date	04-Aug-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Greg Galloway	Hole Condition	Dry

Scale 1:150

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.2									
						0.39									
						0.59									
0	8.46	OVB	Not recovered \End Log												
8.46	9.78	Granite	Moderately bleached granite. Variable grain size in different zones. <10% biotite. Very weak sericite alteration locally. Rare py veinlettes and local py blebs. Non magnetic. \End Log		8.46-9.78m 0.5% Vein Pyrite		40417575	8.46 - 9.78 (m)	0.000204	7.4	0.0005	0.0001	0.001	0.002	0.02
9.78	12.03	Schist	Fine to med biotite schist. Moderate foliation. Cut by several 1-5cm bands of felsic intrusive along foliation. Rare disseminated py \End Log				40417576	9.78 - 12.03 (m)	0.00719	52.2	0.0005	0.0023	0.001	0.006	0.24
12.03	15.02	Granodiorite	Medium grained weakly foliated granodiorite. 15% biotite. 25% Quartz. 50% plagioclase. Patches of moderate sericite alteration. Non magnetic. \End Log		9.78-15.02m 0.2% Blebby Pyrite		40417577	12.03 - 15.02 (m)	0.001525	9.8	0.0005	0.0006	0.002	0.004	0.05
							40417578	15.02 - 18 (m)	0.000246	2.1	0.0005	0.0001	0.001	0.002	0.01
							40417579	18 - 21 (m)	0.00016	0.7	0.0005	0.0001	0.001	0.002	0.01
15.02	37.91	Granite	Coarse to very coarse granite. Locally pegmatitic. 5% Biotite. 35%Kspar. 25%Plag. 35%Quartz. Graphitic texture of the kspar in pegmatitic area. Non magnetic. Rare blebs of pyrite \End Log		15.02-37.91m 0.1% Blebby Pyrite		40417581	21 - 24 (m)	0.000193	1.4	0.0005	0.0001	0.001	0.002	0.01
							40417582	24 - 27 (m)	0.000091	0.8	0.0005	0.0001	0.001	0.002	0.01
							40417583	27 - 30 (m)	0.000147	0.9	0.0005	0.0001	0.001	0.005	0.005

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.2									
						0.59									
15.02	37.91	Granite	Coarse to very coarse granite. Locally pegmatitic. 5% Biotite. 35%Kspr. 25%Plag. 35%Quartz. Graphitic texture of the kspar in pegmatitic area. Non magnetic. Rare blebs of pyrite \End Log		15.02-37.91m 0.1% Blebby Pyrite		40417583	27 - 30 (m)	0.000147	0.9	0.0005	0.0001	0.001	0.005	0.005
							40417584	30 - 33 (m)	0.000109	0.7	0.0005	0.0001	0.001	0.002	0.01
							40417585	33 - 36 (m)	0.00012	1	0.0005	0.0001	0.001	0.002	0.005
							40417586	36 - 37.91 (m)	0.000145	0.9	0.0005	0.0001	0.001	0.002	0.01
							40417587	37.91 - 40 (m)	0.00823	41.1	0.0005	0.0021	0.001	0.006	0.16
37.91	45.87	Schist	Fine to medium well foliated biotite schist. Includes 1-5cm hornblende rich bands along foliation. Cut by several 5-20 cm felsic intrusives bands. Rare blebby py associated with felsic intrusives. Fine disseminated py. Non magnetic \End Log		37.91-45.87m 0.2% Blebby Pyrite		40417588	40 - 42 (m)	0.0081	57.4	0.0005	0.0026	0.001	0.005	0.27
							40417589	42 - 43.5 (m)	0.00765	50.4	0.0005	0.0023	0.006	0.008	0.25
							40417591	43.5 - 44.87 (m)	0.0056	52.3	0.0005	0.0022	0.001	0.008	0.23
							40203827	44.87 - 45.87 (m)	0.00686	68.3	0.0005	0.0023	0.001	0.004	0.13
45.87	47.16	HornblendeGabbro	Zone with fine grained well foliated mafic material mixed with metasediments and boudined ultramafic and quartz. Cpy and Po along foliation and wrapping around boudins. Top 20cm is brecciated - Sub angular to sub rounded quartz clasts and ultramafic boudins in a sulphide groundmass. Matrix supported. Mineralization contact at the top is sharp and diffuse at the bottom. \End Log		45.87-46.07m 15% SemiMassive Pyrrhotite 10% SemiMassive Chalcopyrite 5% SemiMassive Pyrite 46.07-47.16m 3% Foliated Pyrrhotite 5% Foliated Chalcopyrite 3% Foliated Pyrite 47.16-47.5m 1% Foliated Pyrrhotite 1% Foliated Chalcopyrite 0.5% Foliated Pyrite		40203828	45.87 - 46.37 (m)	1.4	19,200	0.223	0.028	0.101	0.131	6.9
							40203830	46.37 - 47.16 (m)	0.517	11,050	0.133	0.012	0.03	0.002	2.72
							40203832	47.16 - 48.16 (m)	0.01425	257	0.0005	0.0021	0.001	0.004	0.25
							40417592	48.16 - 50 (m)	0.00636	51.7	0.0005	0.0022	0.001	0.005	0.19
							40417593	50 - 52 (m)	0.00628	52.7	0.0005	0.0025	0.001	0.005	0.21
47.16	57.18	Schist	Fine to medium biotite schist. Well foliated. Cut by 1-10cm felsic intrusives along foliation. Cut by <1mm carbonate veins taht have a local chlorite halo. Rare disseminated sulphides. The top 20-30cm has some CPY and Po along foliation form the mineralizaed unit above \End Log		47.5-57.18m 0.1% Blebby Pyrite		40417594	52 - 54 (m)	0.01165	63	0.0005	0.003	0.001	0.006	0.33
							40417595	54 - 56 (m)	0.0112	47.6	0.0005	0.0028	0.001	0.004	0.24
							40417596	56 - 57.18 (m)	0.00737	53.9	0.0005	0.0022	0.001	0.005	0.18
57.18	59.78	Granodiorite	Fine to medium weakly foliated granodiorite. Rare zones of sulphide blebs along foliation including py and po. Increasing kspar with depth and proximity to granite below. 15-20% mafics. 35%Qtz. 35%Plag \End Log		57.18-59.78m 0.5% Blebby Pyrrhotite 0.25% Blebby Pyrite		40446127	57.18 - 59.78 (m)	0.0016	47	0.002	0.0005	0	0	0.34
59.78	62	Granite	Medium to very coarse graite. Locally pegmatitic. Megacrystic magnetite. 30% Kspr. 30%Plag. 30%Qz. 10%biotite and magnetite. Blebby pyrite with biotite. Very magnetic \End Log		59.78-62m 0.75% Blebby Pyrite		40417597	59.78 - 62 (m)	0.000403	17.9	0.0005	0.0002	0.001	0.008	0.15
							40417598	62 - 64 (m)	0.01515	64.4	0.0005	0.0028	0.001	0.004	0.3
							40417599	64 - 66 (m)	0.0065	47.4	0.0005	0.0022	0.001	0.006	0.22
62	78	Schist	Fine to medium well foliated biotite schist. Some bands are very biotite rich and weakly chloritized. Cut by several felsic intrusive bands along foliation. Blebby py associated with the felsic intrusives. Non magnetic \End Log		62-80.79m 0.1% Blebby Pyrite		40417601	66 - 68 (m)	0.00568	44	0.0005	0.002	0.002	0.005	0.23
							40417602	68 - 70 (m)	0.00548	36	0.0005	0.0019	0.002	0.01	0.17

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.2									
						0.59									
62	78	Schist	Fine to medium well foliated biotite schist. Some bands are very biotite rich and weakly chloritized. Cut by several felsic intrusive bands along foliation. Blebby py associated with the felsic intrusives. Non magnetic \End Log		62-80.79m 0.1% Blebby Pyrite		40417602	68 - 70 (m)	0.00548	36	0.0005	0.0019	0.002	0.01	0.17
							40417603	70 - 72 (m)	0.00536	40	0.0005	0.0018	0.001	0.005	0.2
							40417604	72 - 74 (m)	0.00725	55.8	0.0005	0.0024	0.003	0.009	0.26
							40417605	74 - 76 (m)	0.00459	29.8	0.0005	0.0015	0.004	0.005	0.21
							40417606	76 - 78 (m)	0.00822	53.5	0.0005	0.0025	0.001	0.005	0.23
78	80.48	Granite	Very coarse granite. Locally pegmatitic. Well developed graphitic exsolution in larger Kspar. 25%Kspar. 35%Plag. 10%Biotite. 30%Quartz. Non magnetic. No sulphides \End Log				40417607	78 - 80.48 (m)	0.000334	1.5	0.0005	0.0001	0.001	0.004	0.01
80.48	80.79	Schist	Short band of well foliated biotite schist identical to the schist unit above. \End Log				40417608	80.48 - 80.79 (m)	0.00682	26.8	0.0005	0.0019	0.001	0.007	0.09
80.79	81.6	MetaGabbro	Fine to medium grained well foliated biotite and chlorite rich band in metasediments that is likely an early metamorphosed gabbro. Moderate blebby pyrite. Non magnetic. Hornblende 15%. Biotite and chlorite 40%. plagioclase35%. Qz 10%. \End Log		80.79-81.6m 0.5% Blebby Pyrite		40446128	80.79 - 81.6 (m)	0.0034	78	0.0005	0.0045	0	0	0.42
							40417609	81.6 - 83 (m)	0.007	51.2	0.0005	0.0023	0.001	0.008	0.2
							40417611	83 - 85 (m)	0.00506	52.2	0.0005	0.0023	0.001	0.007	0.27
							40417612	85 - 87 (m)	0.00794	58.3	0.0005	0.0026	0.005	0.007	0.27
81.6	92.32	Schist	Fine grained weakly leached biotite schist. Cut by carbonate veins that have minor blebby Cpy and possibly sphalerite associated. Rare more mafic bands have discrete hornblende crystals along foliation. non magnetic \End Log		81.6-88m 0.1% Blebby Pyrite		40417613	87 - 89 (m)	0.00706	51.6	0.0005	0.0025	0.001	0.006	0.23
							40446129	89 - 90 (m)	0.0084	110	0.0005	0.002	0	0.001	0.07
							40446130	90 - 91 (m)	0.0084	52	0.0005	0.0024	0.003	0.001	0.12
							40446131	91 - 92.32 (m)	0.0068	44	0.0005	0.0019	0	0.001	0.24
							40417614	92.32 - 94 (m)	0.000427	6.3	0.0005	0.0002	0.001	0.006	0.03
92.32	95.45	Granodiorite	Fine to medium weakly foliated granodiorite. <5% Biotite. 40% Plag. 40% Qz. 15% Kspar. Kspar is locally sericite altered. Local blebby pyrite. Several xenoliths of the biotite schist country rock. Non magnetic \End Log				40417615	94 - 95.45 (m)	0.00191	22.9	0.0005	0.0007	0.001	0.002	0.13
							40417616	95.45 - 97 (m)	0.01025	51.9	0.0005	0.0025	0.004	0.009	0.31
95.45	98.19	Schist	Well foliated biotite schist similar to the above with carbonate veining. Cut by several 5-25cm felsic intrusives along foliation. Non magnetic. Trace py \End Log		92.33-100.15m 0.1% Blebby Pyrite		40417617	97 - 98.19 (m)	0.00383	26.2	0.0005	0.0013	0.002	0.008	0.18
							40446132	98.19 - 99 (m)	0.0162	29	0.0005	0.003	0.003	0.002	0.18
98.19	100.15	MetaGabbro	Magnetic weakly foliated medium grained metagabbro as seen in the most recent 2022 trench mixed with chloritized well foliated non magnetic unit. Both are cut by felsic intrusive along foliation. \End Log				40446133	99 - 100.15 (m)	0.0041	37	0.0005	0.002	0	0	0.11
							40417618	100.15 - 101 (m)	0.001535	4.5	0.0005	0.0007	0.001	0.005	0.02
							40417619	101 - 103 (m)	0.001355	2.8	0.0005	0.0006	0.001	0.004	0.02
							40417621	103 - 105 (m)	0.000846	10.1	0.0005	0.0004	0.002	0.004	0.03
100.15	111.02	Granodiorite	Medium grained weakly foliated granodiorite. 20% Biotite. 40% Plag. 30% Quartz. 10% Kspar. Very consistent grain size. Cut by 10-20 cm bands of coarser more Kspar rich felsic intrusive that locally contaminate the unit with more kspar. \End Log		100.15-134.1m 0.01% Diffuse Pyrite		40417622	105 - 107 (m)	0.001255	10.1	0.0005	0.0006	0.006	0.007	0.05
							40417623	107 - 109 (m)	0.00121	7.2	0.0005	0.0006	0.001	0.004	0.04
							40417624	109 - 111.02 (m)	0.00141	10.1	0.0005	0.0007	0.001	0.005	0.05



From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0									
						0.2									
						0.59									
100.15	111.02	Granodiorite	Medium grained weakly foliated granodiorite. 20% Biotite. 40% Plag. 30% Quartz. 10% Kspar. Very consistent grain size. Cut by 10-20 cm bands of coarser more Kspar rich felsic intrusive that locally contaminate the unit with more kspar. \End Log				40417624	109 - 111.02 (m)	0.00141	10.1	0.0005	0.0007	0.001	0.005	0.05
111.02	113	Granite	Fine to very coarse granite. 10%biotite. 20%Kspar. 30%Plag. 40%Qz. Local very coarse magnetite. Locally magnetic. No sulphides observed \End Log				40417625	111.02 - 113 (m)	0.000548	4.8	0.0005	0.0002	0.001	0.004	0.02
113	116.17	Granodiorite	Medium grained consistent and weakly foliated granodiorite like the GRD above. \End Log				40417626	113 - 114.5 (m)	0.00141	10.4	0.0005	0.0007	0.003	0.002	0.05
							40417627	114.5 - 116.17 (m)	0.001415	11.4	0.0005	0.0007	0.001	0.005	0.05
116.17	118.69	Granite	Realatively equigranular coarse to very coarse granite. 5%Biotite. 35%Kspar. 30%Plag. 30%Qz. Non magnetic. No sulphides observed \End Log				40417628	116.17 - 118.61 (m)	0.000514	7.6	0.0005	0.0002	0.001	0.005	0.04
118.69	120.87	Schist	Fine grained moderately foliated biotite schist. Cut by several 3-10 cm felsic intrusive bands that are along foliation. Rare blebs of pyrite. non magnetic \End Log				40417629	118.61 - 120.87 (m)	0.00526	45.8	0.0005	0.0019	0.004	0.008	0.23
120.87	121.44	Granite	Fine to coarse granite. <5% Biotite. 25% ksapr. 35%Plag. 35%Qz. Non magnetic. Blebs of Py \End Log		100.15-134.1m 0.01% Diffuse Pyrite		40417631	120.87 - 121.44 (m)	0.000582	24.2	0.0005	0.0003	0.001	0.004	0.1
121.44	123.32	Schist	Fine grained well foliated biotite schist identical to the above biotite schist \End Log				40417632	121.44 - 123.32 (m)	0.0069	53.8	0.0005	0.0025	0.001	0.008	0.28
123.32	124.03	Granite	Short interval of bleached granite identical to the previous granite unit. \End Log				40417633	123.32 - 124.03 (m)	0.000501	7.3	0.0005	0.0002	0.001	0.005	0.03
							40417634	124.03 - 126 (m)	0.00806	56.6	0.001	0.0027	0.005	0.005	0.42
							40417635	126 - 128 (m)	0.00857	55.2	0.0005	0.0025	0.004	0.008	0.26
124.03	134.1	Schist	Fine to medium grained well foliated biotite schist similar to the schist unit above with some more variation in grain size. \End Log				40417636	128 - 130 (m)	0.00903	55.1	0.0005	0.0028	0.001	0.007	0.23
							40417637	130 - 132 (m)	0.0105	64.7	0.0005	0.0031	0.001	0.009	0.22
							40417638	132 - 134.1 (m)	0.00794	58.5	0.0005	0.0026	0.001	0.008	0.22



HoleID **QTBL0021**

Claim #	275544	Hole Type	Diamond	Sampled By	Steve Pham
Project	QUETICO	SurveyType	Compass	Hole Status	CompletedCapped
Easting	666754.53	Hole Diameter	NQ3	Casing Depth (m)	3
Northing	5401315.87	Drill Company	Downing Drilling	Casing Left	Yes
Azimuth	351.6405	Drill Rig	NW	Sample Count	84
Dip	46	Start Date	04-Aug-2022	Assay Count	84
Total Length (m)	168	End Date	07-Aug-2022	Overburden (m)	3.43
Location	275544	Log Date	09-Sep-2022	CoreLocation	
CRS	NAD83_UTM_15N	Logged By	Steve Pham	Hole Condition	Dry

Scale 1:100

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.05									
						0.02 0.03									
0	3.43	Overburden	Not recovered. \End Log												
3.43	15.08	Schist	Fine grained biotite schist. 35% bt. Variable foliation moderate to strong with parallel felsic boudins and bands 2-29cm thick. Biotite accumulates along composition contrast of the bands and country rock. Disseminated fine grained garnet <5% throughout. Trace fg pyrite. Undefined top and bottom contacts. \End Log		3.43-15.08m 0.1% Disseminated Pyrite		40417958	3.43 - 6.43 (m)	0.00772	53.3	0.006	0.0025	0.001	0.006	0.23
							40417959	6.43 - 9.43 (m)	0.00648	46.4	0.0005	0.0021	0.001	0.002	0.19
							40417960	9.43 - 11.08 (m)	0.00954	54.6	0.001	0.0028	0.001	0.007	0.17
							40446164	11.08 - 13.08 (m)	0.0095	62	0.002	0.0028	0.002	0.002	0.21
							40203863	13.08 - 14.08 (m)	0.00658	43.9	0.0005	0.0021	0.021	0.005	0.19
							40203864	14.08 - 15.08 (m)	0.00928	286	0.0005	0.0027	0.006	0.004	0.38
15.08	15.59	Melagabbro	Medium grained melagabbro with a sharp bottom contact that is parallel to the metasediments. Proximal to top and bottom contact biotite abundance 40% and overall unit is <3% biotite. Weak interstitial calcite. Moderate felsic blebs. 2% blebby to vein Py>cpy-po. \End Log	15.08-15.59m Moderate Chloritic Pervasive	15.08-15.59m 1% Blebby Pyrite 0.4% Blebby Chalcopyrite 0.6% Replacement Pyrrhotite		40203865	15.08 - 15.59 (m)	0.0561	5,650	0.004	0.0085	0.091	0.098	1.7
							40203867	15.59 - 16.59 (m)	0.00844	111	0.0005	0.0029	0.012	0.007	0.27
15.59	19.13	Schist	Fine grained strongly foliated biotite schist. 40% biotite. 1-5cm felsic boudin and bands with local parasitic texture parallel to foliation. Rare 1mm green amphibole rich band. Rare weak interstitial calcite. Trace dissem pyrite. \End Log		15.59-19.13m 0.2% Disseminated Pyrite		40203868	16.59 - 17.59 (m)	0.00908	55.8	0.0005	0.0025	0.007	0.004	0.29
							40446165	17.59 - 19.13 (m)	0.0074	56	0.0005	0.0027	0.001	0.001	0.25
19.13	19.53	Melagabbro	Medium grained melanogabbro. 10% biotite. Weak-moderate foliation. Moderate <1mm calcite veinlet. Interstitial feldspar throughout. Sharp contacts top and bottom. Trace disseminated pyrite. \End Log				40446166	19.13 - 19.53 (m)	0.0149	37	0.002	0.0031	0.001	0.001	0.18
19.53	20.49	Schist	Fine grained biotite schist moderately foliated. 40% biotite. 1-8cm felsic bands. Local disseminated pyrite fleck. Rare calcite vein. \End Log	19.13-19.53m Moderate Chloritic Pervasive	19.13-19.53m 0.1% Disseminated Pyrite 19.53-20.49m 0.1% Disseminated Pyrite		40446167	19.53 - 20.49 (m)	0.006	44	0.0005	0.0021	0.001	0.001	0.22

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.05									
						0.02 0.03									
19.53	20.49	Schist	Fine grained biotite schist moderately foliated. 40% biotite. 1-8cm felsic bands. Local disseminated pyrite fleck. Rare calcite vein. \End Log		19.53-20.49m 0.1% Disseminated Pyrite		40446167	19.53 - 20.49 (m)	0.006	44	0.0005	0.0021	0.001	0.001	0.22
20.49	20.78	Diabase	Massive vfg diabase. Subtle vfg euhedral plag laths in a grey groundmass. Weak calcite veinlets. No sulphides. \End Log		20.49-20.78m 0% Absent Pyrite		40446168	20.49 - 20.78 (m)	0.0078	60	0.0005	0.0027	0.001	0.001	0.31
20.78	24	Schist	Fine grained biotite schist. This unit is distinctly weakly foliated compared to the typical sediment. 10% biotite that is chl altered. 0.7% diss-bleb pyrite. Moderate calcite vein with 2cm displacement. \End Log	20.78-25.29m Moderate Chloritic Replacement	20.78-24m 0.7% Disseminated Pyrite		40417961	20.78 - 24 (m)	0.00991	64.6	0.0005	0.003	0.001	0.005	0.43
24	25.29	Schist	Typical moderately foliated biotite schist. 30-40% bt. Abundant 1cm felsic bands parallel to foliation. Trace dissem pyrite. Gradational top and bottom contact. \End Log		24-25.29m 0.1% Disseminated Pyrite		40417962	24 - 25.29 (m)	0.00639	58.7	0.001	0.0024	0.001	0.008	0.71
25.29	26.22	Granite	~0.5% m-g interstitial bt. GRT with ~2% m to vc-g anhedral localized magnetite. ~1% m to vc-g interstitial blebs of po and 0.4% m to c-g py blebs and 0.01% vf-g diss cpy all associated together proximal to lower contact within 14cm. Sharp contacts somewhat along fol with bt schist. \End Log		25.29-26.22m 1% Blebby Pyrrhotite 0.4% Blebby Pyrite 0.01% Disseminated Chalcopyrite		40446176	25.29 - 26.22 (m)	0.0015	45	0.0005	0.0013	0	0	0.51
26.22	29.98	Schist	Main unit is the typical moderately foliated biotite schist with 1cm felsic band parallel to foliation. Rare 1cm biotite rich bands. Local zones of light green chl patches. 0.7% disseminated pyrite throughout. \End Log	25.29-29.98m Moderate Chloritic Patchy	26.22-29.98m 0.7% Disseminated Pyrite		40417964	26.22 - 29.98 (m)	0.0056	48.1	0.001	0.0022	0.001	0.005	0.98
29.98	32.12	Granite	Medium to pegmatitic grained granite. Local 1cm sized discrete magnetite grain. Rare 4cm irregular cuts of metasediments. Moderate chloritic biotite. 0.1% disseminated orange lamished pyrite. Alkali content increases with depth. Sharp top and bottom contacts. \End Log	29.98-32.12m Moderate Chloritic Replacement	29.98-32.12m 0.1% Disseminated Pyrite 0.1% Blebby Magnetite		40417965	29.98 - 32.12 (m)	0.000488	10.4	0.0005	0.0002	0.001	0.002	0.05
32.12	35.27	QuartzDiorite	Medium grained biotite-qtz diorite. 40% bt. Occasional 10-25cm coarse granite intervals with sharp contact. 0.1% disseminated pyrite in both units. Pyrite associated with chl biotite. \End Log	32.12-35.27m Moderate Chloritic Replacement	32.12-35.27m 0.1% Disseminated Pyrite		40417966	32.12 - 35.27 (m)	0.001295	8.8	0.0005	0.0007	0.001	0.002	0.06
35.27	36.19	Diabase	Massive vfg diabase. Subtle vfg euhedral plag laths in a grey groundmass. Weak calcite-epidote veinlets. No sulphides. \End Log	35.27-36.19m Moderate Calcite Vein	35.27-36.19m 0% Absent Pyrite		40446169	35.27 - 36.19 (m)	0.0007	14	0.0005	0.0034	0	0	0.16
36.19	39	QuartzDiorite	Medium grained biotite-qtz diorite. 35% bt. Local chl-biotite. Moderately foliated. Rare 7-10m pegmatitic granite intervals with irregular contact. 0.1% disseminated pyrite. \End Log	36.19-39m Moderate Chloritic Replacement	36.19-39m 0.1% Disseminated Pyrite		40417967	36.19 - 39 (m)	0.001265	7.1	0.0005	0.0006	0.004	0.002	0.07
39	40.53	Granite	Pegmatitic granite. Gradational upper and lower contact. 0.3% dissem-patchy pyrite. Zones of chl-biotite and sericitic alteration. \End Log		39-40.53m Moderate Chloritic Replacement	39-40.53m 0.1% Disseminated Pyrite 0.2% Patchy Pyrite	40417968	39 - 40.53 (m)	0.000206	23.2	0.001	0.0002	0.001	0.004	0.14
40.53	41.33	Diabase	Same pegmatitic granite as above but with a 72cm oblique cut of fine grained magnetic diabase with euhedral phenocryst of plag and 0.5mm chill margin along irregular contact boundary. 0.1% dissem pyrite in the granite. Zones of chl-biotite and sercite. \End Log	40.53-41.33m Moderate Chloritic Replacement	40.53-41.33m 0.1% Disseminated Pyrite		40446171	40.53 - 41.33 (m)	0.0003	6	0.0005	0.0007	0	0	0.05
41.33	41.96	QuartzDiorite	Medium grained biotite-qtz diorite. 35% bt. Local chl-biotite. Moderately foliated. Rare 3-5cm pegmatitic granite intervals with irregular contact. No sulphides. \End Log	41.33-41.96m Weak Chloritic Replacement	41.33-41.96m 0% Absent Pyrite		40417969	41.33 - 41.96 (m)	0.000988	13.1	0.0005	0.0006	0.001	0.004	0.08
41.96	43.52	Diabase	Medium grained biotite-quartz diorite. 4-21cm oblique boudin of fine grained magnetic diabase with euhedral phenocryst of plag and 0.5mm chill margin along irregular contact boundary. Disseminated pyrite in dioritic unit and no sulphides in diabase. 4-40cm interval of coarse grained granite. \End Log	41.96-43.52m Weak Chloritic Replacement	41.96-43.52m 0.1% Disseminated Pyrite		40446172	41.96 - 43.52 (m)	0.0014	26	0.0005	0.0006	0	0	0.12
43.52	44.75	Diabase	Coarse granite. Non magnetic pegmatite. 7-20cm oblique cut and a fold hinge of magnetic diabase with euhedral phenocryst of plag and 0.5mm chill margin along irregular contact boundary. Disseminated-patchy pyrite in both units. \End Log	43.52-44.75m Moderate Chloritic Replacement	43.52-44.75m 0.2% Disseminated Pyrite		40446173	43.52 - 44.75 (m)	0.0004	5	0.0005	0.0001	0	0	0.02
44.75	46.96	Granite	Massive coarse granite. Alkali content is less than previous granite unit. Sharp bottom contact. Rare chl-biotite and sercite. Trace dissem pyrite. \End Log	44.75-46.96m Weak Chloritic Replacement	44.75-46.96m 0.1% Disseminated Pyrite		40417971	44.75 - 46.96 (m)	0.000276	4.4	0.0005	0.0001	0.001	0.002	0.03

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus	SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0 0.05									
						0.02 0.03									
44.75	46.96	Granite	Massive coarse granite. Akali content is less than previous granite unit. Sharp bottom contact. Rare chl-biotite and sericite. Trace disseminated pyrite. \End Log	44.75-46.96m Weak Chloritic Replacement	44.75-46.96m 0.1% Disseminated Pyrite		40417971	44.75 - 46.96 (m)	0.000276	4.4	0.0005	0.0001	0.001	0.002	0.03
							40417972	46.96 - 49.94 (m)	0.00518	41.6	0.0005	0.0019	0.001	0.002	0.37
							40417973	49.94 - 52.94 (m)	0.00605	47	0.001	0.0019	0.001	0.002	0.29
46.96	58.83	Schist	Fine grained biotite schist. Mod-weakly foliated. Typical frequent qtz-plag cuts with irregular boudin morphology and rare 1cm mafic green band. 0.2% disseminated disseminated pyrite associated with felsic units. Rare 2 cm green band and calcite veins. 40cm of coarse-pegmatitic granite and 40cm of medium grained dioritic unit @ 51m. \End Log	46.96-58.83m Moderate Chloritic Replacement	46.96-58.83m 0.2% Disseminated Pyrite		40417974	52.94 - 55.94 (m)	0.00664	42.3	0.0005	0.002	0.006	0.004	0.26
							40417975	55.94 - 58.83 (m)	0.00752	59.1	0.0005	0.0025	0.001	0.002	0.36
58.83	60.32	Granite	Coarse-pegmatitic granite. No sulphides. Ch-biotite books and trace sericite. \End Log	58.83-60.34m Moderate Chloritic Replacement	58.83-60.27m 0% Absent Pyrite		40446174	58.83 - 60.27 (m)	0.0003	2	0.0005	0.0002	0	0	0.01
							40446175	60.27 - 61.77 (m)	0.0088	46	0.005	0.0024	0.002	0.001	0.24
60.32	63.77	Schist	Fine grained biotite schist. Unit is less foliated and slightly green. Occasional calcite veins. 3-70cm of irregular bands-oblique cuts of pegmatitic granite with blades of chloritic biotite. 0.3% disseminated pyrite proximal to felsic boundary. \End Log	60.34-63.77m Moderate Chloritic Replacement	60.27-63.77m 0.3% Disseminated Pyrite		40203869	61.77 - 62.77 (m)	0.00238	15.3	0.0005	0.0007	0.001	0.005	0.05
							40203870	62.77 - 63.77 (m)	0.00727	58.7	0.0005	0.0027	0.004	0.002	0.27
							40203871	63.77 - 64.77 (m)	0.000257	15.4	0.002	0.003	0.001	0.004	0.13
63.77	66	Diabase	Massive fine grained diabase. Occasional calcite-epidote veinlets. Unit has distinct euhedral plag phenocryst and a mottled texture of 1-2mm rounded calcite bleb with a thin green chemical rim. Disseminated pyrite-pyrrhotite? \End Log	63.77-66m Moderate Calcite Mottled	63.77-66m 1% Disseminated Pyrrhotite		40203873	64.77 - 66 (m)	0.000269	14.2	0.001	0.0032	0.001	0.006	0.14
							40203874	66 - 66.3 (m)	0.01005	73.6	0.0005	0.0033	0.001	0.002	0.38
							40417976	66.3 - 69 (m)	0.00605	47.7	0.001	0.0021	0.001	0.004	0.27
66	76.2	Schist	Fine grained biotite schist. Weak-moderately foliated. Frequent 1-24cm band of qtz-plag and irregular boudins with biotite accumulation along boundary. 0.1% disseminated pyrite. \End Log	66-76.2m Moderate Chloritic Replacement	66-76.2m 0.1% Disseminated Pyrite		40417977	69 - 72 (m)	0.00533	39.7	0.0005	0.0019	0.001	0.005	0.18
							40417978	72 - 74 (m)	0.00536	47.1	0.0005	0.0024	0.001	0.004	0.2

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
66	76.2	Schist	Fine grained biotite schist. Weak-moderately foliated. Frequent 1-24cm band of qtz-plag and irregular boudins with biotite accumulation along boundary. 0.1% disseminated pyrite. \End Log	66-76.2m Moderate Chloritic Replacement	66-76.2m 0.1% Disseminated Pyrite			40417978	72 - 74 (m)	0.00536	47.1	0.0005	0.0024	0.001	0.004	0.2
								40417979	74 - 76.2 (m)	0.0057	41.5	0.0005	0.0019	0.002	0.004	0.18
								40417980	76.2 - 79.2 (m)	0.000141	1.9	0.001	0.0001	0.001	0.002	0.01
								40417982	79.2 - 82.2 (m)	0.000122	0.8	0.0005	0.0001	0.001	0.002	0.005
76.2	92.77	Granite	Medium grained-pegmatitic granite. Chloritic biotite and weak sericitic alteration throughout. \End Log	76.2-92.77m Moderate Chloritic Replacement	76.2-92.77m 0% Absent Pyrite			40417983	82.2 - 85.2 (m)	0.000117	0.9	0.0005	0.0001	0.001	0.005	0.005
								40417984	85.2 - 88.2 (m)	0.000137	0.9	0.0005	0.0001	0.001	0.002	0.01
								40417985	88.2 - 91.2 (m)	0.000138	1.1	0.002	0.0001	0.001	0.004	0.005
								40417986	91.2 - 92.77 (m)	0.00017	1	0.0005	0.0001	0.001	0.002	0.01
								40417987	92.77 - 94.77 (m)	0.00509	41.4	0.0005	0.0016	0.001	0.002	0.2
92.77	96.3	Schist	Fine grained biotite schist. 0.1% disseminated pyrrhotite. Typical metasediment texture with moderate foliation and rare 1cm bands of qtz-plag parallel to fabric. 40cm granitic interval. Gradational top contact and sharp bottom. \End Log	92.77-96.3m Moderate Chloritic Replacement	92.77-96.3m 0% Absent Pyrite 0.1% Disseminated Pyrrhotite			40417988	94.77 - 96.3 (m)	0.00464	24.6	0.0005	0.0016	0.004	0.006	0.22
								40417989	96.3 - 98.62 (m)	0.000398	3.1	0.0005	0.0002	0.001	0.004	0.02
96.3	98.62	Granite	Medium to coarse granite. Chloritic biotite and weak sericitic alteration throughout. \End Log	96.3-98.62m Moderate Chloritic Replacement	96.3-98.62m 0% Absent Pyrite			40417991	98.62 - 101.62 (m)	0.0076	49.8	0.0005	0.0023	0.002	0.004	0.25
98.62	105.76	Schist	Fine grained biotite schist. Strongly foliated. 40-60% bt. Typical frequent qtz-plag 1-3cm bands with a halo of biotite accumulation. 20cm band of granite. 0.1% disseminated pyrite. \End Log	98.62-105.76m Moderate Chloritic Replacement	98.62-105.76m 0.1% Disseminated Pyrite											

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
98.62	105.76	Schist	Fine grained biotite schist. Strongly foliated. 40-60% bt. Typical frequent qtz-plag 1-3cm bands with a halo of biotite accumulation. 20cm band of granite. 0.1% disseminated pyrite. \End Log	98.62-105.76m Moderate Chloritic Replacement	98.62-105.76m 0.1% Disseminated Pyrite			40417991	98.62 - 101.62 (m)	0.0076	49.8	0.0005	0.0023	0.002	0.004	0.25
								40417992	101.62 - 103.62 (m)	0.00756	45.2	0.0005	0.0022	0.009	0.006	0.21
								40417993	103.62 - 105.76 (m)	0.017	43.2	0.0005	0.0026	0.005	0.002	0.16
105.76	107.38	QuartzDiorite	Medium foliated quartz diorite. 15-20% bt. 0.1% dissemin pyrite. 5cm thick irregular bands of granitic material. Sharp top and bottom contacts. \End Log	105.76-107.38m Moderate Chloritic Fracture	105.76-107.38m 0.1% Disseminated Pyrite			40417994	105.76 - 107.38 (m)	0.00108	15.2	0.0005	0.0005	0.006	0.006	0.06
								40418042	107.38 - 110 (m)	0.000357	8.7	0.0005	0.0002	0.005	0.002	0.02
107.38	115.2	Granite	Coarse to pegmatitic granite. Local zones of elongated blades of chloritic biotite. 10-15% bt. Alkali abundance decreases with depth. Rare vein. 0.2% disseminated pyrite. \End Log	107.38-115.2m Moderate Chloritic Replacement	107.38-115.2m 0.2% Disseminated Pyrite			40418043	110 - 113 (m)	0.000344	10.7	0.0005	0.0002	0.001	0.002	0.01
								40446177	113 - 114 (m)	0.0005	26	0.011	0.0002	0	0	0.02
								40203875	114 - 115.2 (m)	0.000647	30.1	0.0005	0.0002	0.001	0.002	0.03
115.2	116.28	Schist	Fine grained biotite schist with various foliation from weak to strong. Interval is diluted with 4-22cm band of granite. Sharp top and bottom contact. Aproximal to the bottom contact 0.5% Cpy>Po. \End Log	115.2-116.28m Moderate Chloritic Replacement	115.2-116.28m 0.1% Blebby Chalcopyrite 0.1% Disseminated Pyrrhotite			40203876	115.2 - 116.28 (m)	0.01025	378	0.003	0.0016	0.001	0.002	0.21
116.28	117.63	HornblendeGabbro	Fine to medium grained hornblende gabbro. Interval is intermixed with abundant 1-20cm bands and boudins of green hornblende and the metasediment unit. 10-20% bt. Variable foliation from weakly to moderate. Sulphide-calcite veins parallel to fabric. Local 17cm of semi massive ~65% cpy>po. The overall unit is predominately 2% disseminated-blebby-vein of cpy>po. Local cpy patchy-vein are associated with calcite veins. \End Log	116.28-117.63m Strong Chloritic Replacement	116.28-117m 12% SemiMassive Chalcopyrite 3% Patchy Chalcopyrite 3% SemiMassive Pyrrhotite 117-117.63m 2% Vein Chalcopyrite 0.1% Disseminated Pyrrhotite			40203878	116.28 - 117 (m)	1.3	53,400	0.064	0.01	0.038	0.035	8.63
								40203880	117 - 117.63 (m)	0.132	5,590	0.059	0.0069	0.006	0.002	0.81
								40203882	117.63 - 118.63 (m)	0.0118	389	0.0005	0.0023	0.001	0.005	0.2
								40203883	118.63 - 119.63 (m)	0.00584	137.5	0.0005	0.0015	0.001	0.002	0.19
117.63	122.67	Schist	Fine-medium grained biotite schist. Zones of less foliated metasediments. Occasional 1-5cm qtz-plag parallel to foliation. Gradational top contact and sharp bottom. Rare cpy bleeding from top sulphide rich interval. Calcite vein abundant in less foliated unit. as well as 1mm qtz-feldspar vein with faded alteration halo. 15-40% bt. \End Log	117.63-122.67m Moderate Chloritic Replacement	117.63-122.67m 0.1% Disseminated Chalcopyrite			40446178	119.63 - 121 (m)	0.0065	68	0.0005	0.0022	0.001	0.001	0.24
								40446179	121 - 122.67 (m)	0.0072	68	0.0005	0.002	0	0.001	0.24
122.67	123.6	Granodiorite	Medium to pegmatitic granodiorite. 10-15% chl biotite. Unit is weakly foliated. No sulphides. Local sericite alteration on plag. Local interstitial calcite. \End Log	122.67-123.6m Moderate Chloritic Replacement	122.67-123.6m 0% Absent Pyrite			40446181	122.67 - 123.6 (m)	0.0004	3	0.0005	0.0002	0	0	0.01
								40446182	123.6 - 125 (m)	0.0053	47	0.0005	0.0018	0.001	0.001	0.21
123.6	131.13	Schist	Typical biotite schist with 5-40cm irregular interval of granodiorite. 30-45% bt. Moderately foliated. Rare calcite vein towards bottom contact. Trace disseminated pyrite. \End Log	123.6-131.13m Weak Chloritic Replacement	123.6-131.13m 0.1% Disseminated Pyrite			40418044	125 - 128 (m)	0.00537	34.5	0.0005	0.0017	0.001	0.006	0.16

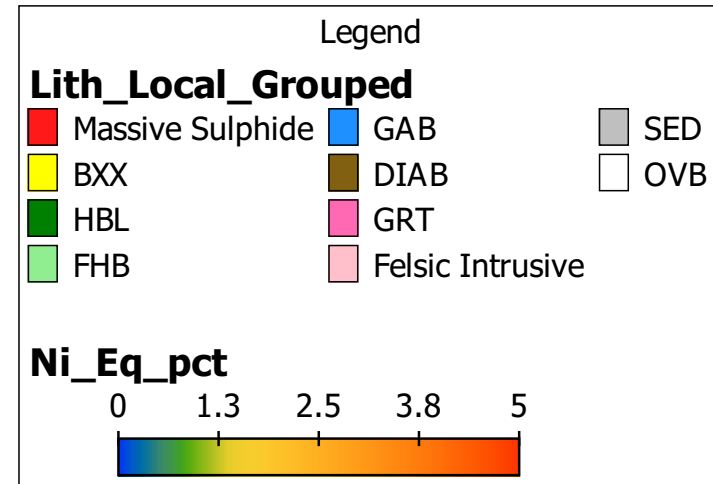
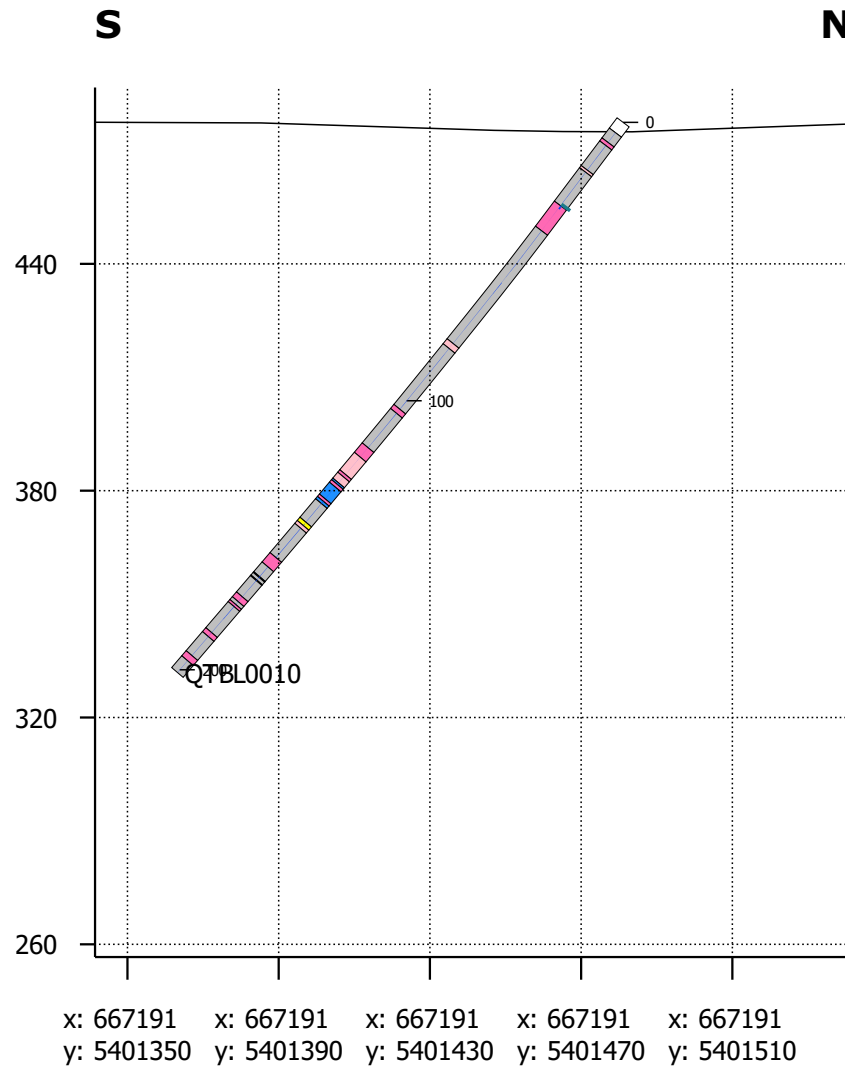
From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
123.6	131.13	Schist	Typical biotite schist with 5-40cm irregular interval of granodiorite. 30-45% bt. Moderately foliated. Rare calcite vein towards bottom contact. Trace disseminated pyrite. \End Log	123.6-131.13m Weak Chloritic Replacement	123.6-131.13m 0.1% Disseminated Pyrite			40418044	125 - 128 (m)	0.00537	34.5	0.0005	0.0017	0.001	0.006	0.16
								40418045	128 - 131.13 (m)	0.00741	49.3	0.0005	0.0023	0.007	0.006	0.25
131.13	132.36	Schist	Fine to medium grained biotite schist with strong chl biotite replacement. 40% bt. Trace pyrite. Abundant cvein. Unit is variable foliated weak to mod. \End Log	131.13-132.36m Strong Chloritic Replacement	131.13-132.36m 0.1% Disseminated Pyrite			40418046	131.13 - 132.36 (m)	0.0067	47.1	0.003	0.0022	0.003	0.007	0.2
								40418047	132.36 - 135 (m)	0.0066	51.8	0.0005	0.0022	0.001	0.002	0.28
								40418048	135 - 138 (m)	0.0056	45.2	0.001	0.0019	0.001	0.006	0.23
								40418049	138 - 141 (m)	0.00638	47.7	0.0005	0.0022	0.005	0.005	0.25
								40418051	141 - 144 (m)	0.00727	36.9	0.0005	0.0019	0.001	0.004	0.21
132.36	165.78	Schist	Fine grained well foliated biotite schist. 30-40% bt. 10-50cm band-irregular cut of granodiorite and 1mm-35cm biotite rich green bands. Trace disseminated pyrite. Local zones of less foliated metasediments. \End Log	132.36-165.78m Moderate Chloritic Replacement	132.36-165.78m 0.1% Disseminated Pyrite			40418052	144 - 147 (m)	0.00652	45.2	0.0005	0.002	0.001	0.007	0.2
								40418053	147 - 150 (m)	0.00788	52.4	0.0005	0.0023	0.004	0.006	0.26
								40418054	150 - 153 (m)	0.00933	35.3	0.0005	0.0021	0.001	0.004	0.2

From (m)	To (m)	Lith1	Description	Alteration	Mineralization	MagSus		SampleID	Samples	Ni (pct)	Cu (ppm)	Au (ppm)	Co (ppm)	Pd (ppm)	Pt (ppm)	S (pct)
						0	0.05									
						0.02	0.03									
132.36	165.78	Schist	Fine grained well foliated biotite schist. 30-40% bt. 10-50cm band-irregular cut of granodiorite and 1mm-35cm biotite rich green bands. Trace disseminated pyrite. Local zones of less foliated metasediments . End Log	132.36-165.78m Moderate Chloritic Replacement	132.36-165.78m 0.1% Disseminated Pyrite			40418054	150 - 153 (m)	0.00933	35.3	0.0005	0.0021	0.001	0.004	0.2
								40418055	153 - 156 (m)	0.00711	51.1	0.0005	0.0023	0.007	0.002	0.22
								40418056	156 - 159 (m)	0.00727	43.5	0.001	0.0022	0.001	0.002	0.2
								40418057	159 - 162 (m)	0.00578	45.5	0.0005	0.002	0.003	0.005	0.23
								40418058	162 - 164 (m)	0.00667	45.1	0.0005	0.0021	0.008	0.007	0.21
								40418059	164 - 165.78 (m)	0.00644	52.8	0.0005	0.0022	0.002	0.006	0.25
165.78	168	Granodiorite	Massive qtz-biotite granodiorite. Chl-biotite throughout. Zones of biotite books and accumulated bands. Disseminated 0.2% pyrite. End Log	165.78-168m Moderate Chloritic Replacement	165.78-168m 0.2% Disseminated Pyrite			40418061	165.78 - 168 (m)	0.000769	8.2	0.0005	0.0003	0.001	0.002	0.04



## **Appendix D - Cross Sections**

# QTBL0010



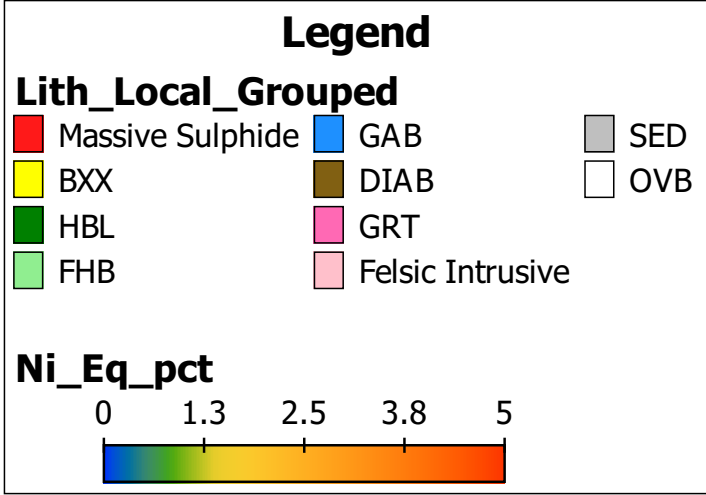
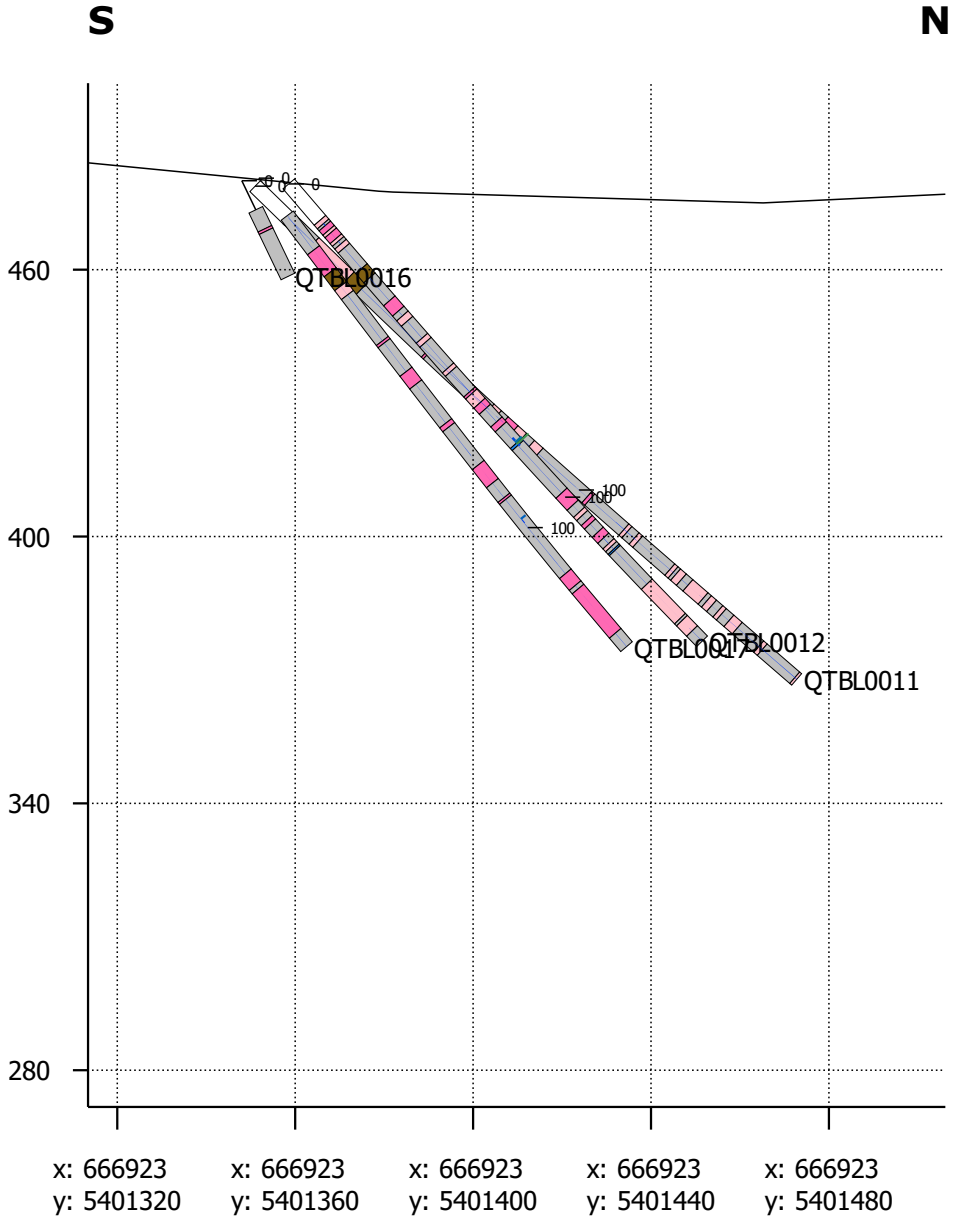
## RioTinto

Author: Greg Galloway  
Date: 06/12/2022  
Claim #: 311979  
Projection: UTM NAD83 Zone 15N

Vertical exaggeration: 1x

0m 90m

# QTBL0011-QTBL0012- QTBL0016-QTBL0017



**RioTinto**

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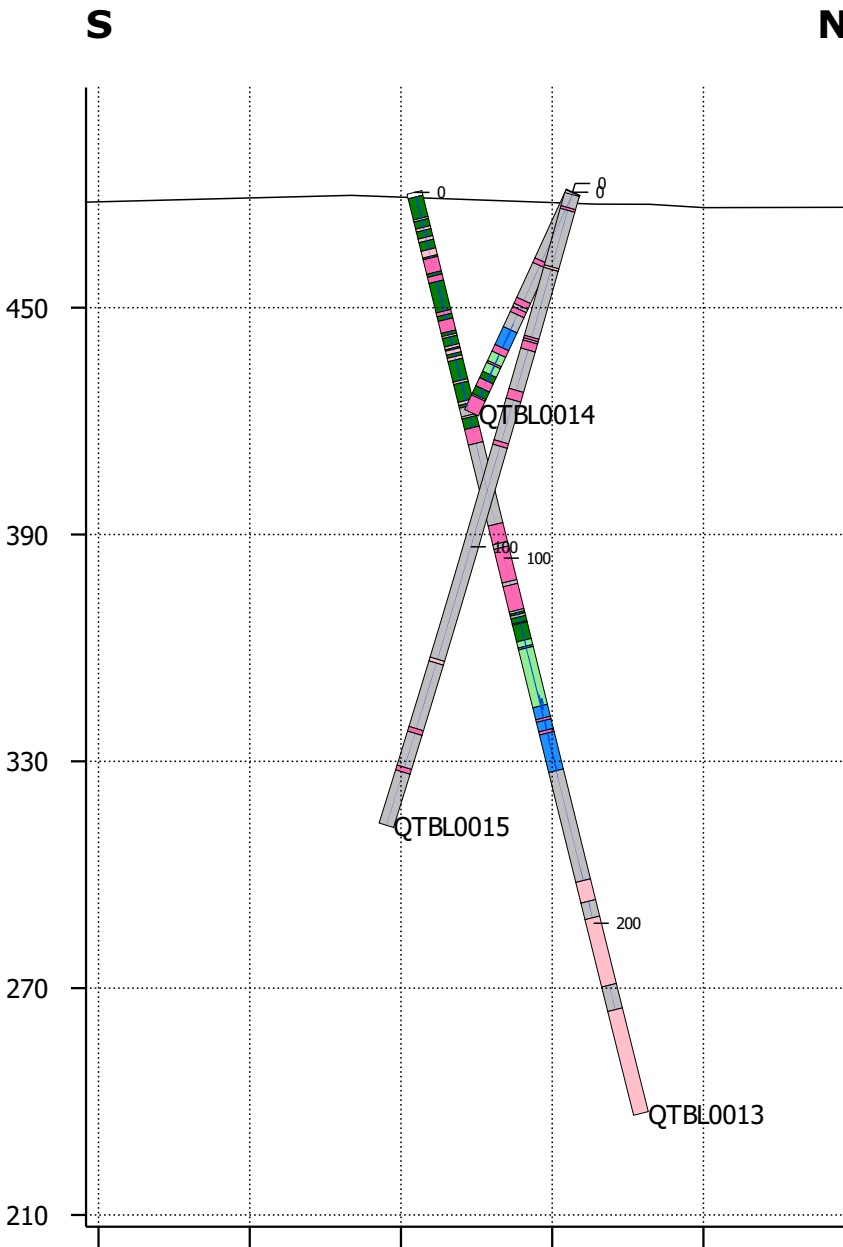
Author: Greg Galloway  
Date: 06/12/2022  
Claim #: 228330  
Projection: UTM NAD83 Zone 15N

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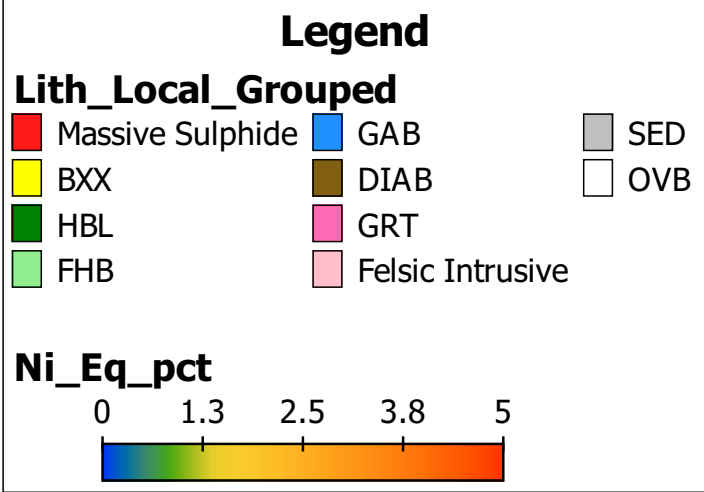
Vertical exaggeration: 1x

0m  90m

# QTBL0013-QTBL0014-QTBL0015



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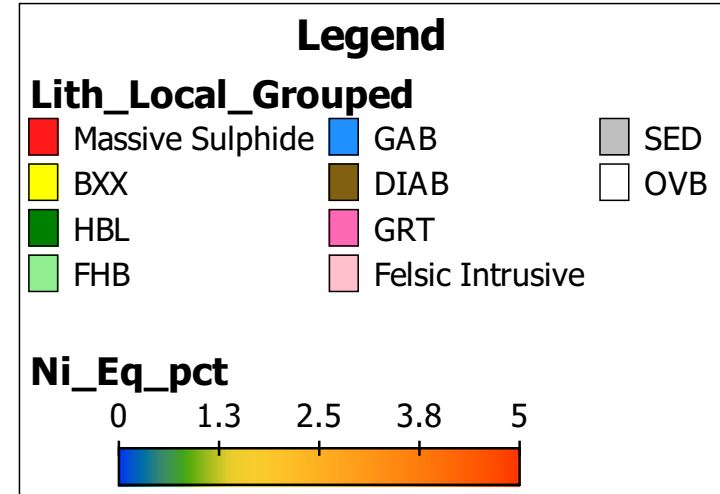
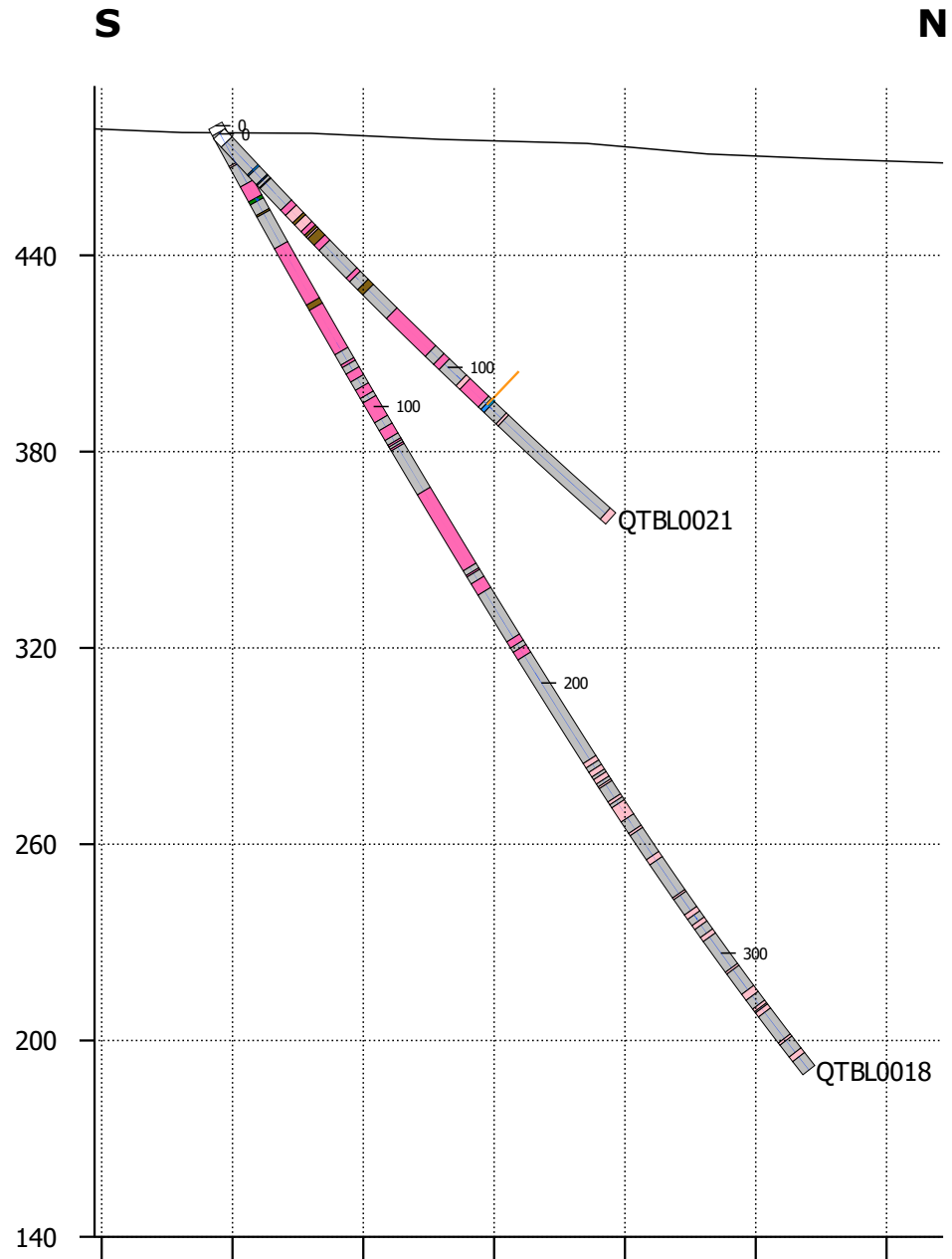


## RioTinto

Author: Greg Galloway  
 Date: 06/12/2022  
 Claim #: 311979  
 Projection: UTM NAD83 Zone 15N

Vertical exaggeration: 1x

# QTBL0018-QTBL0021



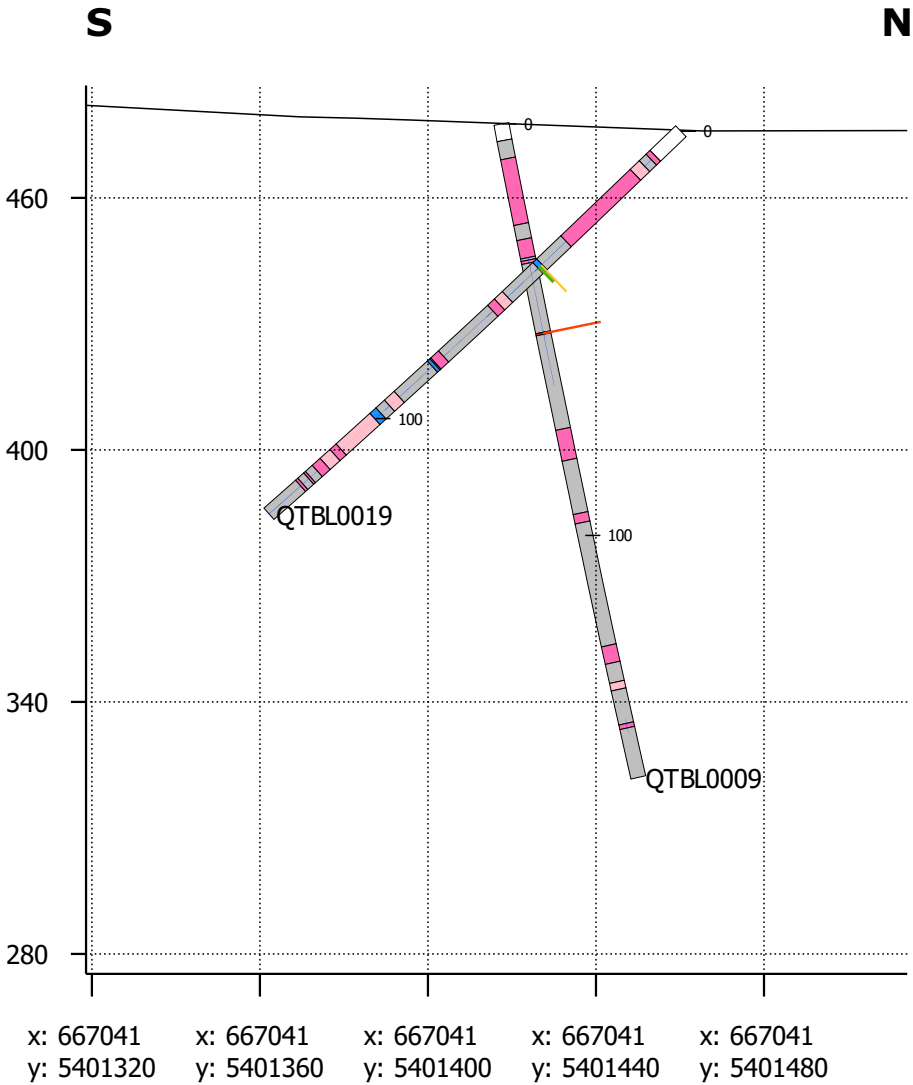
**RioTinto**

Author: Greg Galloway  
Date: 06/12/2022  
Claim #: 275544  
Projection: UTM NAD83 Zone 15N

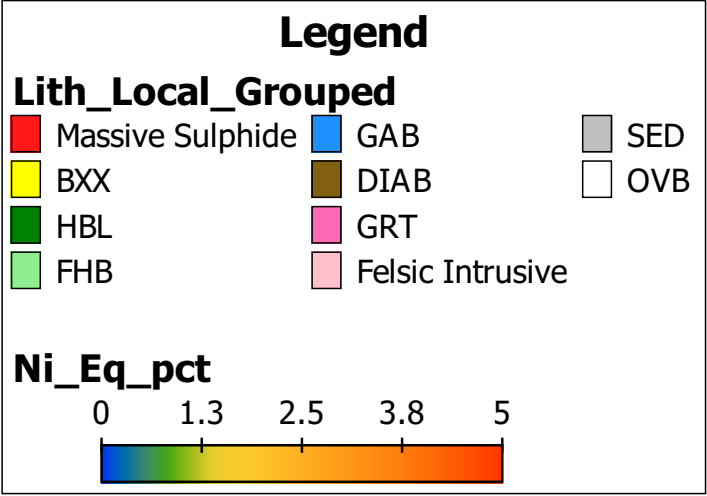
Vertical exaggeration: 1x

0m  100m

# QTBL0019-QTBL0009

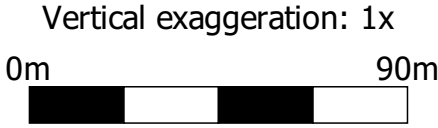


Note: QTBL0009 was completed in a previous program

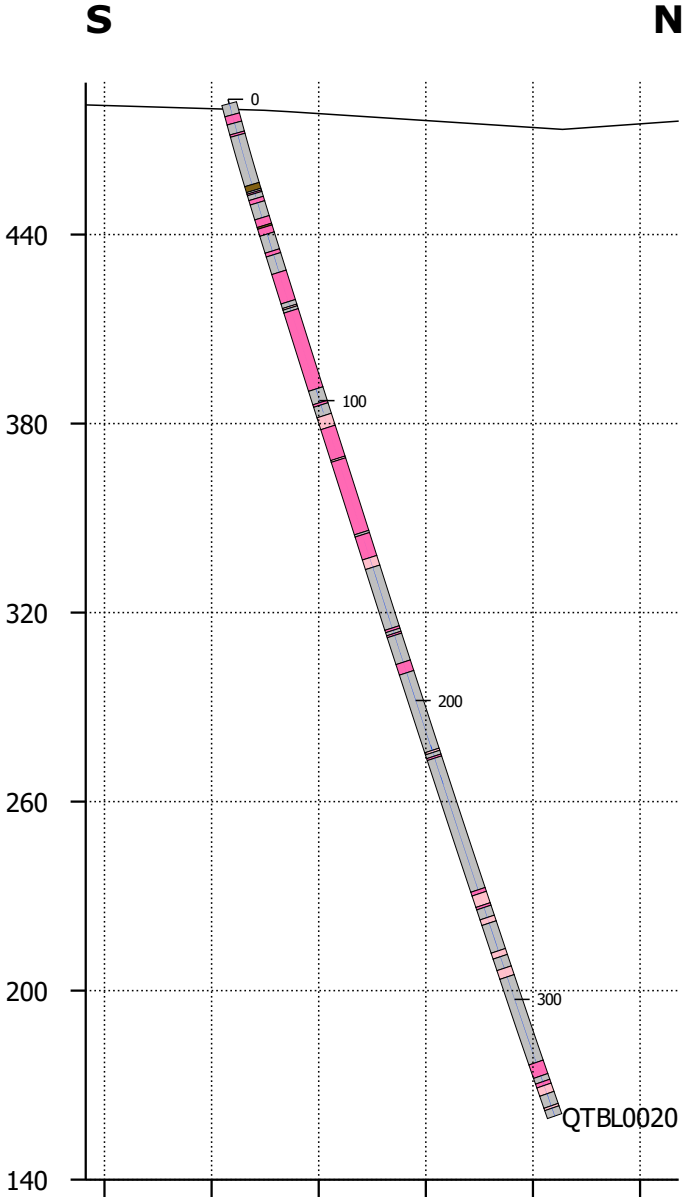


## RioTinto

Author: Greg Galloway  
Date: 06/12/2022  
Claim #: 228330  
Projection: UTM NAD83 Zone 15N



# QTBL0020



x: 666818: 666818: 666818: 666818: 666818: 666818  
 y: 5401320 5401354 5401388 5401422 5401456 5401490

**Legend**

**Lith\_Local\_Grouped**

<span style="color: red;">■</span> Massive Sulphide	<span style="color: blue;">■</span> GAB	<span style="background-color: grey;">■</span> SED
<span style="color: yellow;">■</span> BXX	<span style="color: brown;">■</span> DIAB	<span style="background-color: white; border: 1px solid black;">■</span> OVB
<span style="color: green;">■</span> HBL	<span style="color: magenta;">■</span> GRT	
<span style="color: lightgreen;">■</span> FHB	<span style="color: pink;">■</span> Felsic Intrusive	

**Ni\_Eq\_pct**

0    1.3    2.5    3.8    5

**RioTinto**

---

Author: Greg Galloway  
 Date: 06/12/2022  
 Claim #: 228330  
 Projection: UTM NAD83 Zone 15N

---

Vertical exaggeration: 1x

0m  90m

## **Appendix E - Certificate of Analyses**





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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 1  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

**CERTIFICATE TB22139726**

Project: EB80003499  
 P.O. No.: 3104501601  
 This report is for 16 samples of Rock submitted to our lab in Thunder Bay, ON, Canada on 27-MAY-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
---	--	---------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ

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:   
 Saa Traxler, Director, North Vancouver Operations



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - A  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Recvd Wt. kg	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Nb ppm
		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
40272900		1.38	525	63.1	59	1.44	8.87	4.86	1.92	23.4	9.24	5.41	1.87	27.3	0.69	11.50
40272901		1.63	83.1	34.0	2150	1.46	2.10	0.93	1.08	9.4	2.97	0.82	0.44	13.8	0.15	2.94
40272902		0.77	69.3	19.6	2890	0.30	1.39	0.61	0.88	6.2	1.97	0.64	0.26	8.2	0.08	2.28
40272903		1.25	20.4	12.6	96	0.21	6.12	3.88	1.12	18.5	5.22	2.47	1.41	6.1	0.53	3.47
40272904		1.90	238	37.0	1270	3.50	2.12	0.93	1.27	8.6	3.56	1.46	0.38	11.8	0.12	2.07
40272905		1.25	177.0	20.2	404	1.98	1.24	0.69	0.89	20.7	1.28	1.00	0.26	10.6	0.12	3.63
40272906		0.17	335	27.6	2720	2.58	3.63	2.01	1.27	20.6	3.67	2.73	0.75	13.1	0.27	7.44
40272950		1.30	474	57.7	79	1.04	8.20	4.53	2.10	26.6	8.83	5.41	1.72	24.8	0.60	9.78
40272951		1.75	39.1	24.6	2880	0.35	1.24	0.67	0.61	5.0	1.80	0.70	0.24	10.8	0.08	2.29
40272952		0.78	65.3	12.2	1285	1.59	0.89	0.43	0.39	4.6	1.04	0.49	0.17	5.6	0.07	1.90
40272953		1.10	13.8	6.5	1965	16.10	0.36	0.25	0.09	2.9	0.47	0.19	0.07	2.8	0.02	1.40
40272954		1.32	48.7	18.0	3220	0.66	1.38	0.70	0.52	7.6	1.74	0.95	0.27	7.4	0.07	4.14
40272955		1.16	73.9	26.6	1730	2.21	3.21	1.56	1.30	15.4	3.76	2.55	0.63	10.4	0.21	7.39
40272956		1.16	1835	179.0	25	0.87	0.96	0.32	1.24	22.9	2.44	8.14	0.14	100.5	0.03	4.72
40272957		1.39	100.0	30.7	1210	0.92	4.15	1.86	1.65	18.4	4.95	3.17	0.84	11.7	0.24	9.66
40272958		0.17	337	27.0	2560	2.62	3.61	2.07	1.22	21.5	3.59	2.64	0.79	12.7	0.30	7.48

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm
		0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5	0.5	0.1	0.03
40272900		41.7	9.14	89.6	9.56	1.7	477	0.7	1.50	3.60	0.70	1.70	197	0.5	46.0	4.27
40272901		22.2	4.97	14.2	4.57	1.6	98.2	0.2	0.41	1.17	0.13	0.34	184	0.6	10.4	0.93
40272902		13.8	2.82	1.9	2.63	0.6	437	0.1	0.24	0.72	0.09	0.20	143	1.2	6.6	0.49
40272903		11.6	2.18	3.3	3.90	0.9	48.6	0.2	0.98	0.35	0.55	0.09	578	2.7	37.5	3.66
40272904		27.0	5.77	30.5	5.49	0.5	220	0.1	0.43	1.84	0.11	0.64	123	3.4	9.3	0.74
40272905		9.4	2.32	18.9	1.82	0.6	536	0.2	0.20	1.61	0.11	0.47	268	0.5	6.5	0.76
40272906		16.2	3.60	35.3	3.75	1.8	406	0.5	0.60	1.34	0.28	0.36	180	0.6	19.2	1.79
40272950		38.0	8.11	61.3	9.13	1.9	468	0.6	1.41	2.69	0.65	1.45	233	<0.5	44.6	4.03
40272951		15.1	3.49	1.7	2.68	<0.5	228	0.1	0.23	1.46	0.09	0.40	107	8.9	6.1	0.50
40272952		6.9	1.68	6.0	1.58	2.9	430	0.1	0.15	0.53	0.06	0.26	79	129.5	4.1	0.42
40272953		3.3	0.79	57.4	0.50	0.5	43.2	0.1	0.07	0.31	0.02	0.06	41	0.9	2.1	0.18
40272954		10.7	2.43	4.1	2.01	<0.5	152.0	0.2	0.21	0.58	0.09	0.15	127	0.5	6.2	0.67
40272955		17.8	3.79	11.0	4.12	1.0	177.5	0.4	0.58	0.82	0.22	0.19	250	<0.5	14.8	1.28
40272956		55.2	17.20	159.5	5.63	1.3	523	0.2	0.23	30.9	0.03	3.12	31	0.5	4.2	0.20
40272957		21.6	4.39	5.3	4.94	1.5	166.5	0.6	0.73	1.03	0.28	0.30	360	<0.5	19.4	1.66
40272958		16.2	3.48	36.1	3.75	1.8	399	0.3	0.66	1.34	0.30	0.34	177	0.5	19.0	1.78

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

Sample Description	Method Analyte Units LOD	ME-MS81 Zr ppm 1	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
40272900		212	56.4	17.00	9.74	7.08	3.88	3.51	1.99	0.008	1.28	0.14	0.39	0.05	0.06	0.44
40272901		28	50.6	7.50	8.95	11.70	17.80	1.00	0.49	0.284	0.37	0.17	0.07	0.01	0.01	2.12
40272902		22	48.0	4.73	9.14	10.10	23.0	1.03	0.21	0.375	0.30	0.14	0.05	0.05	0.01	4.40
40272903		85	46.5	7.85	21.7	8.58	5.91	0.51	0.05	0.012	1.60	0.27	0.12	<0.01	<0.01	4.92
40272904		53	47.4	6.85	10.50	11.20	17.95	0.64	0.84	0.181	0.46	0.15	0.20	0.03	0.03	2.81
40272905		39	51.1	16.30	12.25	5.46	6.76	5.02	0.61	0.053	0.92	0.17	0.13	0.06	0.02	2.06
40272906		101	45.0	18.15	12.00	9.29	7.36	2.09	1.08	0.355	1.30	0.14	0.15	0.04	0.04	1.97
40272950		214	50.4	16.75	12.15	7.62	4.80	3.57	1.45	0.011	1.80	0.17	0.52	0.06	0.05	0.43
40272951		24	44.3	3.94	10.25	8.11	27.5	0.73	0.17	0.370	0.22	0.15	0.06	0.03	<0.01	5.95
40272952		16	48.1	3.23	10.05	11.00	23.8	0.66	0.27	0.166	0.17	0.14	0.04	0.05	0.01	3.83
40272953		7	46.0	1.74	12.40	1.57	32.7	0.06	0.94	0.253	0.09	0.18	0.01	<0.01	<0.01	5.11
40272954		36	40.4	4.76	12.50	5.43	26.1	0.94	0.19	0.408	0.48	0.18	0.07	0.02	0.01	7.53
40272955		93	42.5	7.38	15.55	6.48	17.50	1.76	0.29	0.231	1.45	0.21	0.12	0.02	0.01	5.45
40272956		350	72.0	14.55	2.18	0.82	0.78	3.99	5.28	0.003	0.52	0.02	0.14	0.06	0.21	0.90
40272957		121	44.1	7.74	18.15	7.34	14.70	1.72	0.23	0.154	2.04	0.24	0.12	0.02	0.01	4.30
40272958		101	46.1	18.70	12.25	9.45	7.41	2.12	1.06	0.350	1.32	0.14	0.16	0.05	0.04	1.99

\*\*\*\*\* 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/geochemistry

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Page: 2 - D  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-MS23L	PGM-MS23L	
		Total	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Au	Pt
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.1	
40272900		101.97	<0.5	<5	<0.5	26	35	20	1	38	6	21	<10	109	2	0.2
40272901		101.07	<0.5	<5	<0.5	64	114	20	<1	396	2	38	<10	73	1	4.8
40272902		101.54	<0.5	<5	<0.5	70	117	<10	<1	608	<2	35	<10	51	1	13.0
40272903		98.02	<0.5	14	<0.5	69	27	20	<1	73	<2	50	<10	172	32	0.3
40272904		99.24	<0.5	<5	<0.5	51	183	20	<1	352	2	28	<10	77	3	1.6
40272905		100.91	<0.5	<5	<0.5	52	129	20	<1	158	5	24	<10	122	2	3.9
40272906		98.97	<0.5	5	<0.5	64	1115	40	3	703	3	16	<10	108	24	40.9
40272950		99.78	<0.5	<5	<0.5	36	43	10	1	66	4	24	<10	127	1	0.3
40272951		101.78	<0.5	<5	<0.5	89	46	<10	<1	957	2	25	<10	72	6	2.1
40272952		101.52	<0.5	<5	<0.5	104	161	<10	5	813	<2	14	<10	47	2	3.5
40272953		101.05	<0.5	<5	<0.5	128	19	10	<1	1105	<2	7	<10	93	3	7.3
40272954		99.02	<0.5	<5	<0.5	110	42	10	<1	902	<2	17	<10	80	1	3.0
40272955		98.95	<0.5	<5	<0.5	97	114	10	<1	790	<2	23	<10	104	1	3.9
40272956		101.45	<0.5	<5	<0.5	4	6	10	<1	13	32	2	<10	39	3	0.1
40272957		100.86	<0.5	<5	<0.5	97	204	20	1	896	2	28	<10	121	2	4.3
40272958		101.14	<0.5	8	<0.5	67	1145	40	2	726	4	17	<10	111	20	48.1

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

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Page: 2 - E  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

Sample Description	Method Analyte Units LOD	PGM-MS23L Pd ppb 0.2	S-IR08 S % 0.01
40272900		0.3	0.15
40272901		3.8	0.08
40272902		10.8	0.14
40272903		<0.2	0.16
40272904		1.1	0.19
40272905		4.2	0.77
40272906		215	0.33
40272950		0.2	0.14
40272951		1.3	0.07
40272952		2.3	1.04
40272953		10.9	0.12
40272954		2.5	0.06
40272955		3.1	0.15
40272956		<0.2	0.03
40272957		3.8	0.16
40272958		194.0	0.34



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 18-JUL-2022  
 Account: RTECILHR

Project: EB80003499

**CERTIFICATE OF ANALYSIS TB22139726**

	<b>CERTIFICATE COMMENTS</b>												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS81</td> <td style="width: 15%;">OA-GRA05</td> </tr> <tr> <td>PGM-MS23L</td> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> </tr> </table>	ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05	PGM-MS23L	S-IR08	TOT-ICP06					
ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05										
PGM-MS23L	S-IR08	TOT-ICP06											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 1  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

**CERTIFICATE TB2221580**

Project: EB80001657  
 P.O. No.: 3105220123  
 This report is for 171 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 9-AUG-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
---	--	---------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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:   
 Saa Traxler, Director, North Vancouver Operations





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417000		1.30	0.024	8.46	1.03	490	2.11	0.049	5.15	0.113	58.0	35.8	51.0	1.36	40.3	8.16
40417001		2.82	0.094	7.63	0.28	580	1.27	0.147	1.79	0.062	59.2	15.90	101.0	4.12	38.5	3.60
40417002		4.71	0.078	7.48	0.21	630	1.30	0.145	1.90	0.060	60.1	17.55	113.0	4.45	43.1	3.81
40417003		1.21	0.048	6.87	0.12	620	1.06	0.116	0.75	0.026	33.5	4.08	33.2	2.66	15.20	1.630
40417004		1.94	0.097	7.92	0.21	760	1.27	0.277	2.35	0.084	56.2	25.5	178.0	5.43	66.3	4.73
40417005		4.57	0.072	8.14	0.25	690	1.18	0.188	2.12	0.104	51.4	28.2	173.5	4.64	59.2	5.01
40417006		4.43	0.091	8.11	0.15	640	1.11	0.172	1.82	0.108	55.0	26.1	153.0	4.05	55.7	4.69
40417007		4.15	0.075	7.93	0.16	700	1.19	0.160	1.71	0.095	57.6	20.6	107.5	3.91	48.7	4.14
40417008		3.98	0.076	7.72	0.29	700	1.19	0.138	2.00	0.094	49.5	22.5	159.5	3.86	48.0	4.16
40417009		1.79	<0.002	7.38	0.07	1770	0.59	0.032	0.75	0.053	206	3.84	15.4	0.81	5.15	1.840
40417010		0.17	0.500	9.58	5.11	344	0.63	0.143	6.66	0.276	27.1	67.6	1835	2.52	1135	8.33
40417011		2.26	0.066	7.59	0.36	750	1.25	0.074	2.00	0.091	50.9	19.75	111.5	3.36	42.2	4.03
40417012		4.68	0.060	8.04	0.34	750	1.19	0.164	1.64	0.118	57.3	22.5	115.5	3.21	52.7	4.81
40417013		4.30	0.080	8.17	0.74	760	1.13	0.187	1.77	0.109	64.0	23.1	119.0	3.78	58.8	4.65
40417014		4.09	0.077	8.17	0.65	790	1.19	0.184	1.75	0.123	59.6	23.0	120.5	3.91	50.7	4.52
40417015		3.40	0.069	7.61	1.54	660	1.31	0.187	1.78	0.059	69.1	23.6	128.0	2.08	66.8	4.79
40417016		2.60	0.059	7.48	0.42	730	0.71	0.100	0.21	0.008	24.6	1.325	9.7	1.71	27.7	0.660
40417017		4.15	0.031	7.08	0.13	650	0.73	0.044	0.41	0.020	27.2	1.720	10.3	1.78	14.55	0.740
40417018		3.88	0.012	6.72	0.09	610	0.66	0.040	0.46	0.008	30.1	1.690	13.1	1.58	5.91	0.830
40417019		1.15	0.037	6.64	0.07	620	0.50	0.041	0.37	0.018	35.7	1.395	10.5	1.43	18.85	0.770
40417020		1.53	0.036	6.76	0.06	640	0.49	0.036	0.36	0.012	35.7	1.575	13.2	1.42	25.2	0.880
40417021		3.26	0.084	7.52	0.08	540	1.15	0.123	2.08	0.102	51.7	21.3	129.5	4.05	83.9	4.42
40417022		4.22	0.080	7.86	0.06	700	1.12	0.188	2.11	0.099	52.1	22.6	117.5	3.80	57.3	4.52
40417023		4.15	0.088	8.01	0.10	680	1.35	0.210	1.70	0.105	52.6	22.5	107.0	4.49	56.1	4.66
40417024		4.53	0.083	8.41	0.07	680	1.30	0.171	1.60	0.098	56.6	23.9	115.0	5.26	50.2	4.90
40417025		4.07	0.080	8.12	0.09	690	1.34	0.201	1.92	0.093	57.8	23.3	128.0	5.19	51.2	5.00
40417026		4.44	0.101	8.24	0.08	850	1.77	0.143	1.87	0.172	80.0	15.05	69.7	5.71	36.5	3.55
40417027		4.18	0.085	7.85	0.08	1230	1.69	0.099	1.63	0.043	128.0	8.94	37.8	3.35	28.6	2.49
40417028		4.15	0.062	8.17	0.04	760	1.21	0.201	2.74	0.097	69.6	26.5	235	3.95	46.8	4.73
40417029		4.48	0.064	7.92	0.18	880	1.30	0.200	2.41	0.089	73.5	23.9	153.0	3.25	51.3	4.76
40417030		1.12	0.022	8.76	1.12	590	2.28	0.051	4.96	0.109	59.4	29.7	40.5	1.59	32.5	6.75
40417031		4.17	0.053	7.96	0.22	780	1.29	0.153	2.02	0.080	61.8	21.3	98.3	2.84	39.8	4.37
40417032		4.36	0.059	7.78	0.22	730	1.29	0.112	2.04	0.074	57.7	19.55	106.0	2.76	41.7	4.02
40417033		5.89	0.038	8.07	0.16	1020	1.44	0.152	2.37	0.093	73.7	21.5	94.1	3.36	37.9	4.32
40417034		6.75	0.058	8.18	0.06	670	1.44	0.146	1.91	0.063	59.5	19.70	96.7	3.12	47.4	4.16
40417035		6.02	0.039	8.22	0.26	510	1.55	0.152	1.25	0.015	62.6	20.9	92.9	2.62	29.2	4.54
40417036		6.31	0.063	8.26	0.25	1090	2.31	0.237	1.95	0.054	121.0	13.40	57.8	6.48	21.7	3.00
40417037		5.00	0.040	8.15	0.28	860	1.85	0.253	1.73	0.047	115.5	14.55	62.0	6.60	32.0	3.47
40417038		2.02	0.026	7.26	0.42	770	1.96	0.134	0.77	<0.005	41.9	4.90	23.9	2.13	14.15	1.610
40417039		4.79	0.053	7.58	0.35	620	1.39	0.168	1.51	0.052	43.5	15.85	90.5	3.65	38.2	3.65

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417000		23.5	0.18	1.785	0.103	1.25	24.4	14.1	2.61	1195	1.10	2.52	10.10	56.0	0.217	7.04
40417001		17.95	0.13	3.72	0.034	2.60	30.0	39.8	1.30	546	2.06	2.58	7.14	53.0	0.051	25.0
40417002		18.15	0.14	3.42	0.039	2.56	30.6	41.8	1.45	585	1.40	2.50	6.14	54.1	0.057	21.6
40417003		14.00	0.05	1.205	0.019	4.53	15.50	18.6	0.49	245	1.33	2.16	5.74	14.70	0.039	43.4
40417004		19.30	0.09	3.11	0.041	2.57	26.9	53.3	2.15	694	2.00	2.24	6.85	78.4	0.068	18.50
40417005		20.3	0.09	3.21	0.045	2.23	24.3	67.8	2.17	815	2.12	2.52	6.57	88.7	0.063	14.90
40417006		19.50	0.09	3.26	0.045	2.13	26.5	73.3	1.94	754	2.06	2.61	6.10	80.4	0.057	17.25
40417007		19.65	0.09	3.10	0.043	2.22	28.7	57.7	1.56	630	1.91	2.65	6.64	60.3	0.052	19.40
40417008		19.70	0.08	2.72	0.040	2.48	23.0	55.7	1.83	640	1.95	2.41	6.25	73.6	0.061	17.85
40417009		17.40	0.16	7.87	0.014	4.53	113.0	18.2	0.44	237	2.01	2.45	5.60	3.90	0.051	24.1
40417010		20.7	0.09	2.53	0.057	0.89	11.60	42.2	4.48	1070	2.94	1.565	7.89	723	0.070	6.35
40417011		19.75	0.07	2.95	0.031	2.11	24.5	49.1	1.65	589	1.87	2.48	6.29	55.4	0.063	18.00
40417012		20.5	0.09	3.29	0.048	1.88	28.4	60.3	1.71	751	1.77	2.69	7.54	64.6	0.053	18.45
40417013		19.50	0.09	3.45	0.042	2.19	32.4	62.8	1.66	692	1.96	2.56	6.13	64.1	0.063	18.10
40417014		19.80	0.08	3.09	0.041	2.18	28.9	63.5	1.68	700	1.93	2.76	6.49	65.9	0.068	19.10
40417015		20.0	0.09	3.44	0.044	2.04	32.4	56.2	1.88	523	1.59	2.79	7.81	78.1	0.074	15.45
40417016		14.05	0.05	0.433	0.005	4.96	10.70	4.8	0.11	83.4	1.06	2.37	1.805	12.00	0.017	49.9
40417017		14.15	0.06	0.782	0.011	5.27	11.95	8.8	0.16	108.5	1.24	2.22	2.67	7.42	0.008	52.1
40417018		13.15	0.07	0.901	0.009	5.16	13.40	9.1	0.17	108.5	1.32	2.02	3.09	2.94	0.010	47.7
40417019		12.35	0.08	1.040	0.011	5.49	15.50	9.8	0.16	98.3	0.91	1.795	2.92	4.23	0.009	51.3
40417020		12.70	0.06	1.085	0.016	5.50	15.25	10.4	0.17	102.5	1.28	1.780	3.21	4.58	0.010	52.5
40417021		17.50	0.09	2.77	0.039	1.93	24.7	54.5	2.03	688	1.17	2.61	5.61	55.7	0.071	15.80
40417022		19.05	0.09	2.92	0.032	2.06	25.2	51.1	1.73	682	1.55	2.42	5.80	60.8	0.061	16.05
40417023		20.7	0.09	2.94	0.039	2.19	25.4	70.4	1.63	687	2.37	2.68	6.12	61.9	0.063	16.30
40417024		21.6	0.09	3.22	0.043	2.48	28.0	78.2	1.63	692	2.33	2.69	7.30	69.0	0.060	16.60
40417025		21.1	0.10	3.28	0.042	2.28	28.3	61.0	1.85	689	1.91	2.82	6.97	74.2	0.058	20.9
40417026		22.1	0.10	3.33	0.037	2.61	38.9	39.3	1.21	502	1.70	3.02	7.76	44.9	0.073	45.1
40417027		19.50	0.12	4.84	0.023	3.13	66.7	31.3	0.83	388	0.89	3.06	8.36	24.0	0.075	26.4
40417028		20.8	0.10	3.27	0.040	2.60	34.2	54.4	2.85	721	1.64	2.58	6.63	130.5	0.085	14.40
40417029		21.2	0.11	3.59	0.040	2.28	36.2	52.6	2.31	752	1.36	2.55	6.68	94.1	0.094	16.55
40417030		24.7	0.12	1.885	0.101	1.73	23.1	19.8	2.12	1035	1.34	2.68	12.15	36.6	0.167	10.65
40417031		20.3	0.08	3.33	0.042	2.12	30.2	53.7	1.70	724	1.71	2.79	6.85	61.1	0.071	15.65
40417032		19.65	0.09	2.91	0.037	1.99	28.2	43.6	1.56	676	2.61	2.72	6.11	59.5	0.068	16.25
40417033		18.70	0.10	3.30	0.032	2.13	35.1	47.0	2.05	792	4.45	2.64	6.02	64.2	0.100	16.05
40417034		20.1	0.09	3.08	0.039	1.93	29.3	47.4	1.78	697	1.79	2.98	6.32	54.5	0.063	17.20
40417035		21.0	0.08	3.41	0.036	1.69	29.8	73.9	2.64	624	1.45	3.25	7.39	63.4	0.092	8.61
40417036		22.7	0.13	4.15	0.029	2.41	58.1	47.8	1.47	520	1.30	2.98	8.42	39.8	0.135	17.25
40417037		24.0	0.13	4.30	0.032	2.35	56.3	48.0	1.37	578	0.96	3.11	9.22	39.1	0.103	20.9
40417038		17.35	0.08	2.73	0.015	4.19	19.80	21.3	0.53	332	2.10	2.64	8.85	10.55	0.019	28.9
40417039		17.75	0.11	2.73	0.033	2.44	21.6	40.5	1.38	641	2.58	2.70	6.17	47.6	0.046	14.85



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

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417000		63.6	0.0012	0.15	0.09	29.0	0.119	1.93	436	0.57	0.012	2.92	1.085	0.268	0.99	201
40417001		102.5	0.0007	0.20	0.03	12.25	0.166	1.54	371	0.51	0.027	11.75	0.261	0.595	3.69	78.3
40417002		105.5	0.0007	0.23	0.04	13.15	0.140	1.52	386	0.44	0.027	12.85	0.287	0.638	2.87	89.6
40417003		132.0	<0.0004	0.09	0.03	4.14	0.019	1.29	283	0.38	<0.005	7.26	0.117	0.665	6.43	17.7
40417004		108.5	0.0007	0.30	0.06	17.20	0.184	1.57	439	0.51	0.033	7.55	0.345	0.648	3.27	117.0
40417005		81.7	0.0008	0.27	0.05	18.80	0.179	1.18	424	0.47	0.044	6.42	0.378	0.541	1.87	132.0
40417006		86.8	0.0008	0.24	0.04	17.75	0.187	1.09	409	0.47	0.035	7.57	0.356	0.529	2.12	119.5
40417007		93.7	0.0008	0.24	0.04	14.75	0.140	1.32	364	0.53	0.031	8.84	0.323	0.540	2.72	101.5
40417008		93.7	0.0005	0.17	0.04	14.90	0.135	1.24	419	0.43	0.032	6.61	0.320	0.599	1.86	106.0
40417009		118.5	<0.0004	0.04	0.05	3.18	0.039	0.81	297	0.18	0.006	31.5	0.196	0.589	1.91	26.5
40417010		27.8	0.0027	0.35	0.52	21.8	0.959	1.79	432	0.47	0.061	1.230	0.789	0.512	0.33	178.5
40417011		85.6	0.0008	0.23	0.05	13.45	0.129	1.37	403	0.47	0.029	7.11	0.309	0.574	2.00	98.2
40417012		79.4	0.0009	0.25	0.06	16.30	0.175	1.38	358	0.58	0.034	8.07	0.342	0.478	2.54	112.0
40417013		93.2	0.0008	0.25	0.07	16.65	0.178	1.02	370	0.46	0.036	9.45	0.337	0.532	2.57	112.5
40417014		88.7	0.0007	0.25	0.10	16.00	0.161	1.09	364	0.46	0.036	8.03	0.341	0.528	2.46	117.0
40417015		87.3	0.0006	0.20	0.06	15.70	0.162	1.89	347	0.54	0.031	10.20	0.338	0.626	2.85	115.0
40417016		116.5	<0.0004	0.02	0.03	1.16	0.022	0.64	237	0.15	<0.005	11.85	0.022	0.797	6.77	2.5
40417017		140.0	<0.0004	0.02	0.04	1.87	<0.006	0.88	236	0.18	<0.005	10.20	0.037	0.712	9.32	3.6
40417018		133.5	<0.0004	0.01	0.02	1.99	0.007	0.97	225	0.18	<0.005	10.85	0.042	0.669	6.14	3.7
40417019		147.0	<0.0004	0.02	0.03	1.90	0.015	0.96	224	0.16	<0.005	12.45	0.043	0.741	3.65	3.5
40417020		139.0	<0.0004	0.02	0.03	2.02	<0.006	0.98	225	0.17	<0.005	12.50	0.043	0.735	3.86	3.5
40417021		91.0	0.0005	0.19	0.04	14.95	0.095	1.56	361	0.46	0.021	6.38	0.322	0.547	2.55	106.0
40417022		79.1	0.0007	0.24	0.04	15.55	0.153	1.06	420	0.46	0.028	6.75	0.336	0.477	2.06	110.5
40417023		79.9	0.0010	0.24	0.03	16.80	0.142	1.08	391	0.54	0.033	7.53	0.338	0.510	2.57	112.5
40417024		108.5	0.0009	0.20	0.04	17.60	0.136	1.25	373	0.58	0.034	8.80	0.355	0.649	2.42	124.0
40417025		96.5	0.0007	0.26	0.03	17.20	0.141	1.59	395	0.57	0.036	8.81	0.345	0.589	2.94	117.0
40417026		128.0	0.0005	0.25	0.02	11.05	0.101	1.89	568	0.56	0.019	9.58	0.282	0.739	3.08	78.1
40417027		116.0	<0.0004	0.24	0.02	6.07	0.089	1.43	660	0.45	0.009	18.65	0.243	0.628	2.65	49.4
40417028		106.0	0.0007	0.20	0.02	16.25	0.120	1.26	477	0.43	0.028	9.48	0.337	0.606	1.71	112.5
40417029		85.3	0.0005	0.22	0.03	15.80	0.135	1.05	501	0.44	0.025	9.96	0.348	0.518	1.92	108.0
40417030		66.5	0.0007	0.15	0.08	23.1	0.088	1.84	523	0.72	0.020	3.77	0.795	0.375	1.26	187.0
40417031		83.1	0.0005	0.18	0.03	14.35	0.128	1.18	456	0.49	0.027	7.99	0.336	0.479	2.01	108.5
40417032		75.1	0.0009	0.22	0.02	13.55	0.131	1.01	479	0.48	0.029	7.04	0.312	0.432	2.63	97.2
40417033		86.5	0.0032	0.17	0.03	14.75	0.111	1.15	561	0.42	0.024	8.22	0.340	0.479	2.06	109.0
40417034		82.7	0.0006	0.24	0.04	13.90	0.151	1.29	414	0.50	0.031	8.65	0.311	0.452	4.72	100.0
40417035		66.9	0.0005	0.25	0.02	14.65	0.118	1.35	382	0.56	0.025	8.04	0.347	0.401	2.76	108.5
40417036		125.0	0.0004	0.23	0.04	8.29	0.022	1.61	848	0.46	<0.005	8.43	0.347	0.698	2.04	66.4
40417037		121.5	<0.0004	0.23	0.03	10.50	0.094	2.61	691	0.65	0.015	13.05	0.330	0.706	3.25	70.8
40417038		108.5	<0.0004	0.05	0.04	4.77	0.038	2.88	224	1.31	0.008	19.30	0.110	0.518	8.33	24.4
40417039		81.6	0.0008	0.17	0.04	13.85	0.137	1.69	332	0.65	0.028	8.78	0.274	0.494	3.58	86.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - D  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
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Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2
40417000		0.242	50.8	122.0	55.9	0.0026	<0.004	<0.002	1	<0.1	0.2
40417001		0.551	9.58	76.1	125.5	0.0035	0.004	<0.002	1	1.0	0.8
40417002		0.439	10.35	73.2	123.5	0.0030	0.004	<0.002	1	0.9	0.9
40417003		0.278	4.40	33.4	41.0	0.0010	0.005	<0.002	1	<0.1	<0.2
40417004		0.575	12.85	85.9	124.0	0.0022	0.007	<0.002	1	1.4	1.7
40417005		0.515	14.40	93.1	128.5	0.0024	0.008	0.009	1	1.6	1.7
40417006		0.507	13.80	84.9	128.5	0.0014	0.008	<0.002	2	2.4	3.6
40417007		0.546	11.70	83.6	120.5	0.0018	0.006	0.004	1	1.3	1.2
40417008		0.410	11.00	84.3	111.0	0.0017	0.008	0.002	1	1.5	1.7
40417009		0.249	10.75	44.9	316	0.0033	0.005	<0.002	1	<0.1	<0.2
40417010		0.263	19.50	114.0	103.0	0.0112	0.023	0.149	20	44.2	197.0
40417011		0.408	11.20	87.7	119.5	0.0022	0.007	0.007	1	1.0	1.2
40417012		0.577	13.00	85.7	130.5	0.0022	0.004	0.002	1	1.1	1.3
40417013		0.498	13.40	89.0	137.0	0.0025	0.005	0.006	1	1.2	1.3
40417014		0.545	13.15	86.5	123.5	0.0017	0.006	<0.002	1	1.3	1.4
40417015		0.630	12.50	86.7	141.5	0.0021	0.006	0.010	1	0.9	1.1
40417016		0.150	2.55	8.7	10.8	0.0004	0.005	<0.002	1	0.1	<0.2
40417017		0.172	1.96	17.3	21.1	0.0008	0.005	<0.002	1	0.1	<0.2
40417018		0.179	1.92	16.4	23.9	0.0004	0.006	<0.002	<1	0.1	<0.2
40417019		0.122	1.86	17.5	29.3	<0.0004	0.009	<0.002	1	<0.1	<0.2
40417020		0.140	1.84	19.4	31.1	0.0007	0.007	<0.002	1	<0.1	<0.2
40417021		0.372	11.20	84.3	107.5	0.0010	0.004	<0.002	1	1.4	1.4
40417022		0.465	13.40	82.4	116.5	0.0019	0.006	<0.002	1	1.2	1.2
40417023		0.546	13.20	82.0	118.0	0.0019	0.005	0.004	1	1.1	1.3
40417024		0.611	13.55	90.3	126.5	0.0019	0.007	<0.002	1	1.5	1.4
40417025		0.665	12.50	87.6	132.0	0.0018	0.004	0.002	1	1.3	1.3
40417026		0.363	10.20	108.0	136.0	0.0015	0.005	<0.002	1	0.6	0.5
40417027		0.183	8.19	65.2	210	0.0029	<0.004	0.006	1	0.2	0.3
40417028		0.733	11.50	85.4	132.5	0.0018	0.007	0.003	1	1.4	2.1
40417029		0.414	12.10	80.0	147.0	0.0014	0.004	0.003	2	1.3	1.5
40417030		0.299	41.3	113.5	67.2	0.0017	0.005	0.004	1	0.7	0.3
40417031		0.436	11.40	81.3	133.0	0.0015	<0.004	0.005	1	1.0	0.9
40417032		0.390	11.40	80.4	118.5	0.0016	<0.004	<0.002	1	0.9	1.1
40417033		0.394	12.75	82.7	136.0	0.0020	0.009	0.005	1	0.7	0.8
40417034		0.522	12.45	77.4	118.5	0.0018	0.007	<0.002	1	0.7	0.8
40417035		0.561	10.35	69.7	141.0	0.0021	0.008	<0.002	1	0.8	0.9
40417036		0.293	8.78	85.0	185.5	0.0020	0.008	0.005	1	0.2	<0.2
40417037		0.469	10.35	79.2	182.5	0.0023	0.007	0.004	1	0.6	0.6
40417038		0.729	10.40	23.8	84.1	0.0008	0.005	<0.002	1	1.0	1.4
40417039		0.484	10.25	66.3	99.0	0.0033	0.005	<0.002	1	1.1	1.2



ALS Canada Ltd.

2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB2221580**

Sample Description	Method	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417040		0.17	0.433	8.90	4.82	343	0.60	0.125	6.27	0.247	27.9	62.7	1745	2.28	1100	8.05
40417041		3.51	0.061	7.85	0.28	670	1.57	0.204	1.56	0.037	66.4	20.1	131.0	4.27	46.3	4.26
40417042		4.40	0.055	7.79	0.40	750	1.48	0.271	1.97	0.064	68.3	20.6	118.0	3.59	51.0	4.21
40417043		4.46	0.085	8.08	0.38	790	1.40	0.145	1.98	0.088	57.2	20.6	118.0	3.85	53.3	4.23
40417044		4.35	0.077	7.65	0.40	580	1.16	0.177	2.12	0.096	51.9	20.4	148.5	3.38	47.7	4.26
40417045		4.36	0.061	7.70	0.19	590	1.20	0.126	1.96	0.084	52.8	18.95	117.5	3.90	40.8	4.14
40417046		6.58	0.092	7.78	0.21	590	1.15	0.150	2.33	0.077	56.2	21.6	132.0	3.97	44.0	4.61
40417047		6.68	0.085	7.71	0.15	540	1.29	0.143	2.13	0.085	56.1	19.50	125.0	4.01	41.7	4.44
40417048		6.79	0.094	7.86	0.85	660	0.96	0.161	2.48	0.161	48.7	26.9	164.0	3.22	62.6	5.27
40417049		1.18	0.057	7.50	0.85	520	1.21	0.162	2.15	0.064	50.7	17.75	110.5	2.58	43.5	3.76
40417050		0.71	0.053	7.69	0.64	520	1.30	0.152	2.26	0.075	51.9	18.35	115.5	2.38	39.1	3.83
40417051		2.93	0.018	6.08	0.22	438	0.96	0.093	0.61	0.029	46.0	1.375	14.2	1.20	1.18	0.850
40417052		3.28	0.101	7.51	0.66	640	1.24	0.224	2.65	0.097	51.0	29.3	218	5.69	61.5	5.47
40417053		4.44	0.075	7.82	0.36	700	1.22	0.206	2.62	0.098	48.3	25.4	188.5	3.54	54.7	4.99
40417054		4.50	0.072	7.78	0.34	620	1.14	0.148	2.37	0.098	50.4	23.7	140.5	3.20	52.2	4.75
40417055		3.70	0.062	8.06	0.39	630	1.16	0.181	3.03	0.097	55.2	24.4	144.5	2.99	50.7	4.98
40417056		1.82	0.061	7.76	0.28	700	2.18	0.169	2.50	0.135	60.5	20.2	142.0	6.29	28.7	4.10
40417057		3.20	0.048	8.01	0.30	340	1.81	0.051	1.55	0.037	40.2	5.55	29.5	2.56	8.67	1.990
40417058		1.85	0.150	7.85	0.23	350	1.85	0.067	1.51	0.032	56.8	5.00	29.4	2.79	9.55	1.950
40417059		1.24	0.079	7.40	0.17	640	1.05	0.111	0.62	0.011	13.95	0.698	9.9	1.82	1.98	0.530
40417060		1.34	0.029	8.73	2.10	610	2.00	0.054	5.07	0.101	60.5	30.0	44.6	1.90	35.6	7.18
40417061		3.33	0.080	7.51	0.25	610	3.10	0.201	2.06	0.083	57.2	9.25	59.6	2.93	12.10	2.56
40417062		3.08	0.061	7.82	0.25	570	1.92	0.111	1.57	0.037	36.5	6.35	29.4	3.44	9.96	1.830
40417063		3.73	0.058	7.80	0.27	840	2.21	0.064	1.81	0.030	38.5	6.65	30.4	2.62	7.46	1.800
40417064		3.98	0.048	7.83	0.26	520	1.73	0.095	1.31	0.030	25.9	3.35	19.4	3.04	4.27	1.660
40417065		3.95	0.061	8.04	0.62	810	1.87	0.090	2.01	0.030	48.3	8.72	41.5	4.45	9.17	2.14
40417066		1.71	0.093	7.54	0.22	510	1.41	0.214	1.06	0.035	8.80	2.36	10.0	2.23	14.10	1.400
40417067		1.43	0.071	6.92	0.51	157	2.92	0.163	1.33	0.036	11.95	3.99	12.7	1.35	22.4	1.360
40417068		1.89	<0.002	7.43	0.32	770	1.37	0.065	0.92	0.011	115.5	3.46	28.7	3.48	4.20	1.350
40417069		11.66	0.089	7.77	0.45	710	1.30	0.191	2.85	0.086	54.8	26.0	252	4.37	59.2	4.95
40417070		0.17	0.442	8.96	4.80	341	0.59	0.118	6.27	0.242	26.3	62.6	1650	2.19	1110	8.14
40417071		9.53	0.069	7.94	0.33	650	1.43	0.335	2.47	0.112	54.8	27.4	223	5.03	56.0	4.95
40417072		6.50	0.031	6.42	0.32	470	1.16	0.086	0.61	0.019	45.1	1.385	12.2	2.92	1.64	0.910
40417073		11.53	0.060	7.94	0.31	520	1.16	0.112	1.35	0.048	36.8	13.60	75.9	4.26	27.7	3.00
40417074		9.24	0.062	7.69	0.32	580	1.35	0.256	3.23	0.100	57.0	28.1	265	3.88	44.8	5.11
40417075		12.74	0.060	7.88	0.03	590	1.20	0.137	1.97	0.063	52.8	16.50	91.8	4.27	39.8	3.87
40417076		13.96	0.075	7.65	0.23	590	1.21	0.174	2.14	0.077	57.8	18.00	110.0	5.05	41.7	4.04
40417077		3.36	0.029	6.71	0.19	490	0.91	0.104	0.53	0.017	33.0	2.58	21.5	3.28	3.44	1.430
40417078		8.24	0.077	7.52	0.32	610	1.11	0.124	1.89	0.060	56.4	15.10	93.9	4.27	34.4	3.45
40417079		1.41	0.025	8.63	0.97	510	1.93	0.032	5.28	0.113	56.6	37.0	59.9	1.49	37.2	8.36

\*\*\*\*\* 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  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417040		18.90	0.12	2.44	0.053	0.83	11.15	40.2	4.24	1045	2.92	1.505	7.27	688	0.065	5.15
40417041		18.25	0.12	3.28	0.041	2.55	32.7	59.4	2.01	640	1.60	2.32	7.29	70.4	0.074	13.40
40417042		18.40	0.14	3.45	0.039	2.40	33.1	56.9	2.04	619	1.24	2.43	6.05	74.8	0.084	12.80
40417043		20.2	0.13	3.27	0.040	2.38	27.3	49.3	1.66	648	3.73	2.80	6.51	64.0	0.065	18.35
40417044		17.75	0.13	3.12	0.031	1.99	24.9	49.1	1.86	719	1.40	2.43	5.24	65.3	0.064	12.90
40417045		17.90	0.13	3.16	0.035	2.15	25.4	48.8	1.57	631	1.72	2.56	6.15	58.3	0.059	14.35
40417046		18.30	0.14	3.17	0.043	2.25	27.0	48.0	2.01	666	1.97	2.55	6.20	59.3	0.069	15.00
40417047		18.20	0.14	3.05	0.042	1.96	28.7	48.3	1.63	661	1.88	2.57	7.12	62.8	0.060	14.95
40417048		17.75	0.14	2.91	0.045	1.83	23.9	49.3	1.99	1090	1.46	2.32	5.22	83.4	0.061	18.80
40417049		18.00	0.13	2.91	0.033	1.91	24.0	37.1	1.61	546	1.23	2.55	5.35	63.5	0.068	14.45
40417050		18.55	0.13	3.14	0.032	1.81	25.0	37.6	1.65	538	1.26	2.69	5.84	66.7	0.067	15.30
40417051		12.65	0.09	2.11	0.009	4.02	21.4	6.5	0.15	146.5	0.92	2.11	3.87	2.93	0.010	42.3
40417052		20.0	0.13	2.96	0.053	2.11	23.1	56.3	2.42	904	5.25	2.22	7.23	97.5	0.074	11.20
40417053		18.45	0.15	3.06	0.043	1.99	23.1	51.6	2.20	766	1.66	2.44	5.61	85.5	0.078	12.75
40417054		18.30	0.13	2.94	0.039	2.02	24.4	51.4	1.89	771	2.14	2.54	5.60	76.8	0.064	11.85
40417055		19.65	0.16	2.84	0.042	1.80	26.9	48.1	2.11	871	1.34	2.63	5.44	70.1	0.073	12.25
40417056		21.5	0.14	3.33	0.050	2.24	28.2	64.1	2.02	694	1.54	2.86	7.70	78.8	0.082	15.80
40417057		23.3	0.11	2.73	0.035	2.63	19.55	35.9	0.62	266	0.87	3.49	8.79	11.50	0.052	29.5
40417058		21.1	0.12	2.85	0.026	2.45	27.2	35.5	0.57	260	0.87	3.53	7.40	12.05	0.045	29.5
40417059		15.85	0.07	1.580	0.005	5.15	5.81	7.8	0.09	84.2	0.76	2.57	1.545	1.81	0.010	40.9
40417060		24.1	0.18	2.31	0.090	1.69	25.0	17.7	2.28	1040	1.08	2.65	9.75	43.7	0.179	9.39
40417061		22.9	0.14	3.12	0.039	1.85	26.9	38.8	1.15	530	0.99	3.34	8.06	25.1	0.084	22.6
40417062		21.4	0.11	2.61	0.023	2.62	17.65	38.1	0.63	286	0.86	3.44	5.45	13.30	0.063	25.3
40417063		22.4	0.11	2.65	0.019	1.82	18.90	37.2	0.70	316	0.69	3.61	4.22	13.80	0.050	14.95
40417064		19.60	0.09	1.835	0.014	3.37	11.55	24.8	0.37	218	0.81	3.34	3.70	7.17	0.041	34.7
40417065		22.7	0.11	3.04	0.023	1.81	24.3	56.2	0.94	353	0.77	3.55	4.05	19.70	0.060	16.35
40417066		17.55	0.07	0.858	0.009	4.42	3.65	7.4	0.09	139.0	0.92	2.89	1.300	1.86	0.072	38.8
40417067		18.45	0.07	1.160	0.011	1.78	5.75	16.6	0.34	201	0.94	3.68	3.74	3.37	0.037	26.3
40417068		16.40	0.17	8.39	0.015	4.94	52.7	16.1	0.43	196.0	0.95	2.36	5.95	12.20	0.056	45.3
40417069		17.75	0.14	3.10	0.043	1.97	25.6	39.7	2.42	794	1.01	2.77	6.07	101.0	0.090	12.30
40417070		19.45	0.15	2.49	0.060	0.83	10.50	40.7	4.24	1050	2.94	1.520	7.21	695	0.066	5.26
40417071		18.65	0.14	3.24	0.039	2.04	25.7	57.3	2.29	790	1.95	2.68	6.31	103.0	0.082	16.10
40417072		13.55	0.10	4.01	0.012	4.42	20.5	12.3	0.15	150.5	1.16	2.10	4.46	2.80	0.010	50.3
40417073		17.10	0.12	2.51	0.028	3.40	18.35	33.2	0.96	429	1.52	2.72	4.92	46.1	0.036	30.5
40417074		17.60	0.15	2.83	0.039	1.84	27.1	44.6	2.99	836	1.16	2.38	6.12	116.0	0.074	11.35
40417075		17.75	0.13	2.92	0.032	2.64	25.5	38.9	1.35	567	1.52	2.54	5.41	49.9	0.053	23.1
40417076		18.80	0.13	3.20	0.036	2.21	28.4	44.3	1.47	595	1.69	2.46	6.49	57.2	0.058	19.30
40417077		14.30	0.08	1.970	0.020	5.04	13.80	14.9	0.28	217	1.48	1.905	6.65	4.96	0.011	51.3
40417078		17.90	0.13	3.01	0.037	2.73	27.0	38.7	1.25	520	1.50	2.48	5.86	47.7	0.048	25.7
40417079		24.6	0.20	1.870	0.098	1.31	23.4	16.5	2.87	1195	1.06	2.44	9.86	63.3	0.207	7.16



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - C  
 Total # Pages: 6 (A - D)  
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 Finalized Date: 15-SEP-2022  
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Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
40417040		18.35	0.0029	0.33	0.46	21.1	0.880	1.71	406	0.43	0.063	1.120	0.754	0.467	0.30	169.0
40417041		101.0	0.0006	0.23	0.04	15.70	0.152	1.98	410	0.59	0.026	9.31	0.328	0.545	3.90	100.5
40417042		90.6	0.0006	0.22	0.05	15.25	0.136	1.16	422	0.39	0.022	7.45	0.342	0.542	2.57	105.5
40417043		94.4	0.0010	0.23	0.05	16.30	0.168	1.28	398	0.50	0.035	7.60	0.329	0.586	2.84	107.0
40417044		72.5	0.0008	0.21	0.04	15.45	0.185	0.97	394	0.39	0.032	6.26	0.325	0.433	1.88	104.5
40417045		85.7	0.0007	0.17	0.04	14.95	0.138	1.30	349	0.46	0.031	6.79	0.326	0.542	2.12	102.0
40417046		87.4	0.0015	0.24	0.03	17.25	0.186	1.58	368	0.45	0.032	7.42	0.344	0.571	2.01	118.0
40417047		82.9	0.0015	0.24	0.05	15.40	0.171	1.99	361	0.54	0.035	8.65	0.328	0.536	2.11	100.5
40417048		64.1	0.0010	0.38	0.14	20.9	0.262	0.89	406	0.36	0.039	5.06	0.380	0.352	1.43	135.0
40417049		68.0	0.0006	0.23	0.10	13.40	0.125	1.11	426	0.40	0.025	6.70	0.298	0.381	2.35	90.5
40417050		63.5	0.0006	0.19	0.11	13.40	0.150	1.25	420	0.43	0.026	7.04	0.313	0.368	2.03	94.5
40417051		103.5	<0.0004	0.01	0.04	2.49	0.027	1.10	182.5	0.35	<0.005	18.95	0.046	0.500	14.00	5.2
40417052		79.1	0.0013	0.30	0.08	22.2	0.213	1.87	375	0.46	0.044	6.73	0.392	0.599	1.66	140.5
40417053		61.6	0.0007	0.26	0.09	18.95	0.176	0.99	413	0.40	0.040	5.31	0.378	0.422	1.55	129.0
40417054		69.2	0.0010	0.28	0.09	17.80	0.196	1.11	391	0.39	0.031	5.99	0.358	0.450	1.70	120.0
40417055		66.6	0.0007	0.31	0.08	21.0	0.162	0.91	487	0.38	0.031	6.47	0.377	0.404	2.01	130.0
40417056		103.5	0.0006	0.17	0.03	13.85	0.098	3.95	424	0.60	0.019	8.24	0.296	0.725	2.58	88.3
40417057		93.6	<0.0004	0.05	0.03	6.97	0.015	3.99	340	0.53	<0.005	7.69	0.137	0.506	2.54	26.6
40417058		92.6	<0.0004	0.06	0.03	5.78	0.041	3.76	347	0.37	<0.005	15.45	0.134	0.495	2.94	23.2
40417059		132.5	<0.0004	0.01	0.03	1.06	<0.006	0.67	269	0.14	<0.005	4.99	0.021	0.676	6.48	2.5
40417060		67.3	0.0010	0.15	0.13	24.3	0.099	1.61	522	0.50	0.017	2.77	0.892	0.359	1.08	186.5
40417061		74.9	<0.0004	0.08	0.05	7.20	0.035	4.06	528	0.77	<0.005	4.50	0.206	0.461	3.24	47.4
40417062		97.7	<0.0004	0.07	0.03	5.47	0.028	2.65	487	0.51	<0.005	5.02	0.152	0.561	2.15	29.0
40417063		72.5	<0.0004	0.06	0.04	5.15	0.010	1.30	665	0.45	<0.005	3.91	0.162	0.424	1.50	32.6
40417064		101.0	<0.0004	0.04	0.03	3.32	0.011	2.25	373	0.37	<0.005	4.36	0.095	0.541	4.40	19.7
40417065		89.4	<0.0004	0.08	0.05	6.11	0.017	1.17	729	0.35	<0.005	4.74	0.194	0.526	2.15	41.6
40417066		104.5	<0.0004	0.09	0.03	1.09	0.032	0.91	265	0.13	0.005	1.660	0.029	0.509	4.18	7.6
40417067		52.9	<0.0004	0.13	0.06	3.08	0.077	1.57	255	0.75	0.005	4.37	0.067	0.270	13.55	17.6
40417068		153.0	<0.0004	0.01	0.04	4.97	0.036	1.87	256	0.38	<0.005	37.3	0.088	0.748	5.67	11.8
40417069		65.8	0.0015	0.42	0.10	18.40	0.384	1.24	462	0.44	0.031	5.41	0.377	0.477	1.76	127.0
40417070		16.30	0.0029	0.34	0.44	21.0	0.904	1.66	409	0.43	0.060	1.075	0.759	0.465	0.30	169.5
40417071		75.1	0.0008	0.24	0.06	19.45	0.180	1.16	424	0.45	0.030	5.77	0.376	0.485	1.88	129.0
40417072		134.5	<0.0004	0.01	0.03	2.91	0.012	1.24	186.0	0.50	<0.005	17.65	0.053	0.624	16.85	5.2
40417073		123.5	0.0006	0.10	0.03	12.25	0.091	1.35	304	0.38	0.018	5.92	0.218	0.647	6.18	72.4
40417074		60.6	0.0007	0.19	0.05	20.3	0.148	1.04	432	0.37	0.022	5.38	0.362	0.405	1.48	136.0
40417075		82.9	0.0006	0.18	0.03	13.35	0.099	1.20	335	0.41	0.025	8.96	0.280	0.500	2.86	88.1
40417076		89.5	0.0006	0.19	0.05	14.30	0.138	1.42	386	0.48	0.029	8.67	0.311	0.548	3.72	95.5
40417077		145.0	<0.0004	0.02	0.02	4.67	0.019	1.80	197.5	0.52	<0.005	11.75	0.092	0.706	10.45	10.1
40417078		99.6	0.0005	0.16	0.02	12.15	0.124	1.36	386	0.39	0.022	11.35	0.269	0.613	3.35	80.0
40417079		67.7	0.0012	0.14	0.08	30.7	0.102	1.69	443	0.51	0.013	2.42	1.085	0.307	1.64	207



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - D  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2
40417040		0.229	18.00	104.5	99.4	0.0172	0.023	0.173	19	43.8	183.5
40417041		0.486	10.60	72.0	125.5	0.0028	0.005	<0.002	1	1.2	1.2
40417042		0.478	11.25	73.6	131.5	0.0036	0.004	<0.002	1	0.9	1.0
40417043		0.713	10.75	84.3	120.0	0.0036	0.006	<0.002	2	1.4	1.6
40417044		0.396	11.35	81.6	121.5	0.0037	0.005	<0.002	1	1.4	1.6
40417045		0.549	10.45	80.3	119.5	0.0034	0.004	<0.002	1	1.4	1.5
40417046		0.558	10.85	87.4	119.0	0.0030	0.007	<0.002	1	1.4	1.5
40417047		0.543	10.75	86.8	116.0	0.0038	<0.004	0.004	1	1.5	1.5
40417048		0.524	13.60	111.0	115.0	0.0028	0.005	0.007	1	1.8	1.8
40417049		0.521	9.37	73.3	111.5	0.0043	0.004	<0.002	1	1.1	1.2
40417050		0.589	9.61	79.4	117.5	0.0032	0.004	<0.002	1	1.0	1.1
40417051		0.170	4.49	19.7	57.2	0.0016	<0.004	<0.002	1	0.1	<0.2
40417052		0.479	13.45	100.0	115.5	0.0039	0.006	<0.002	1	1.9	2.2
40417053		0.508	12.50	85.9	119.5	0.0031	0.004	<0.002	1	1.5	1.7
40417054		0.532	11.75	87.9	114.0	0.0034	0.007	<0.002	1	1.5	1.7
40417055		0.398	13.60	86.2	110.0	0.0035	0.008	<0.002	1	1.3	1.3
40417056		0.340	10.35	98.9	125.5	0.0036	0.004	<0.002	1	1.1	0.7
40417057		0.165	7.41	63.7	98.4	0.0022	<0.004	<0.002	1	0.2	<0.2
40417058		0.379	7.19	59.3	101.5	0.0031	<0.004	<0.002	2	0.2	0.3
40417059		0.292	1.83	9.0	39.8	0.0019	0.004	0.002	<1	<0.1	<0.2
40417060		0.275	39.0	113.0	82.0	0.0034	0.005	<0.002	1	0.1	<0.2
40417061		0.317	9.38	73.7	114.5	0.0033	<0.004	<0.002	1	0.7	2.1
40417062		0.290	6.98	54.6	102.0	0.0029	0.004	<0.002	1	0.1	<0.2
40417063		0.448	4.34	49.5	104.5	0.0028	<0.004	<0.002	1	0.1	<0.2
40417064		0.185	5.11	38.9	63.6	0.0019	<0.004	<0.002	1	0.1	0.2
40417065		0.331	5.17	58.4	118.5	0.0033	0.004	<0.002	1	0.1	<0.2
40417066		0.095	8.22	19.6	17.4	0.0012	0.004	<0.002	1	<0.1	<0.2
40417067		0.162	6.89	24.5	25.0	0.0013	<0.004	<0.002	1	0.1	<0.2
40417068		0.197	10.50	35.1	256	0.0070	0.004	0.002	1	0.2	0.2
40417069		0.285	13.05	86.8	117.0	0.0034	0.005	<0.002	2	1.9	2.4
40417070		0.242	17.85	105.0	95.1	0.0235	0.021	0.139	25	51.9	215
40417071		0.441	13.10	89.4	121.5	0.0044	0.005	<0.002	2	2.0	2.3
40417072		0.225	3.86	19.3	113.5	0.0039	0.005	<0.002	1	0.1	<0.2
40417073		0.499	7.39	55.1	86.7	0.0034	0.004	<0.002	1	1.1	1.2
40417074		0.431	12.50	84.5	107.5	0.0034	0.005	<0.002	1	1.6	1.9
40417075		0.536	9.90	66.5	105.5	0.0030	0.004	<0.002	1	1.1	1.2
40417076		0.519	11.50	77.0	120.5	0.0026	<0.004	<0.002	1	1.2	1.4
40417077		0.244	3.08	30.9	57.7	0.0015	<0.004	0.002	<1	0.1	<0.2
40417078		0.503	9.46	66.4	109.0	0.0029	0.004	<0.002	1	1.1	1.1
40417079		0.236	43.5	126.5	61.7	0.0018	<0.004	0.002	1	0.1	0.3

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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417080		1.33	0.062	7.77	0.36	680	1.25	0.129	2.06	0.064	55.4	16.00	82.4	3.92	32.6	3.88
40417081		1.78	0.079	7.82	0.24	640	1.25	0.139	2.26	0.065	53.8	18.30	99.9	4.26	38.5	4.21
40417082		6.08	0.085	7.83	0.39	600	1.02	0.161	2.59	0.131	46.5	27.8	153.0	3.88	70.7	5.47
40417083		3.77	0.067	7.54	0.66	630	1.19	0.162	2.27	0.093	51.8	20.6	128.5	2.82	46.8	4.45
40417084		3.70	0.069	7.44	0.29	333	1.60	0.111	1.29	0.044	25.2	3.48	17.1	1.64	12.60	1.310
40417085		1.33	0.058	7.75	0.30	560	1.58	0.091	1.66	0.042	43.2	6.27	31.3	2.33	14.85	1.980
40417086		1.97	0.100	7.32	0.31	590	1.05	0.184	0.71	0.087	32.1	1.770	7.9	1.58	22.7	0.630
40417087		6.79	0.054	7.84	0.42	720	2.15	0.101	1.92	0.043	56.5	8.00	57.0	2.25	19.45	2.08
40417088		1.14	0.042	7.37	0.30	446	1.59	0.082	1.34	0.029	63.5	3.45	19.9	2.70	6.61	1.440
40417089		11.31	0.076	7.82	0.28	650	1.26	0.188	2.55	0.093	64.6	20.7	109.0	4.31	50.9	4.41
40417090		1.14	0.029	8.64	0.73	580	1.82	0.024	5.14	0.108	59.5	32.2	48.8	1.38	40.5	7.74
40417091		11.49	0.076	8.01	0.28	590	1.24	0.151	1.91	0.070	48.8	18.20	114.0	5.72	43.1	4.14
40417092		11.34	0.085	7.92	0.22	640	1.34	0.122	2.10	0.070	71.9	18.55	102.0	4.84	48.0	4.22
40417093		11.24	0.079	7.56	0.33	660	1.42	0.137	2.02	0.065	68.5	18.40	105.5	5.08	46.9	4.16
40417094		7.13	0.081	7.52	0.32	640	1.18	0.136	2.55	0.072	56.1	22.0	172.0	4.03	52.9	4.57
40417095		4.11	0.081	7.71	0.27	1020	1.68	0.099	1.33	0.041	110.5	3.74	16.7	2.37	38.6	1.830
40417096		4.10	0.090	7.88	0.41	790	1.67	0.127	2.47	0.069	84.8	15.95	81.4	5.02	46.3	4.05
40417097		5.54	0.010	6.84	0.42	530	0.71	0.035	0.53	0.011	24.6	0.935	10.3	1.52	0.96	0.840
40417098		4.36	0.024	6.88	0.40	460	1.00	0.064	0.93	0.017	36.2	4.94	35.4	1.72	18.70	1.650
40417099		4.14	0.075	7.58	0.33	530	1.16	0.151	2.18	0.086	62.0	19.15	111.5	5.04	70.3	4.47
40417100		0.17	0.465	8.85	6.36	348	0.60	0.206	6.43	0.249	24.8	61.7	1770	2.21	1130	8.33
40417101		4.62	0.028	6.75	0.27	412	1.18	0.057	0.84	0.017	61.5	2.06	19.6	2.56	13.85	1.110
40417102		9.62	0.071	7.63	0.10	640	1.20	0.155	2.19	0.075	52.0	18.75	131.0	4.34	49.6	4.06
40417103		10.98	0.067	7.67	0.20	600	1.11	0.153	2.04	0.069	47.8	19.80	131.0	4.20	47.1	4.29
40417104		10.89	0.055	7.94	0.28	650	1.75	0.090	2.30	0.028	46.7	11.55	66.3	4.39	5.38	2.52
40417105		10.68	0.054	7.44	0.36	700	1.38	0.106	2.32	0.046	48.0	16.70	105.5	3.69	27.4	3.55
40417106		11.05	0.074	7.14	0.33	660	1.23	0.171	2.26	0.098	66.0	20.3	245	4.52	39.4	3.73
40417107		11.20	0.078	7.75	0.52	590	1.31	0.170	1.54	0.058	67.0	13.70	82.5	3.19	32.4	3.51
40417108		10.36	0.070	7.63	0.76	520	1.51	0.188	2.03	0.037	63.2	17.10	113.0	4.03	46.3	3.83
40417109		3.21	0.016	7.02	0.25	421	1.36	0.106	0.73	0.025	56.6	0.860	13.6	2.26	3.02	0.690
40417110		3.83	0.073	7.91	0.36	640	1.40	0.134	1.82	0.062	54.1	19.80	134.0	5.34	44.2	4.50
40417111		5.63	0.020	7.04	0.39	630	0.93	0.097	0.51	0.022	118.0	1.325	11.3	1.95	2.31	1.000
40417112		9.45	0.039	7.66	0.38	730	1.05	0.101	1.30	0.042	93.0	9.80	60.3	3.75	20.9	2.54
40417113		2.05	0.018	6.99	0.19	720	0.90	0.122	0.41	0.019	54.8	1.685	11.7	3.04	1.21	1.120
40417114		10.20	0.075	7.75	0.17	630	1.20	0.124	1.57	0.058	53.0	16.10	100.5	4.49	35.6	3.16
40417115		11.54	0.078	7.72	0.26	610	1.52	0.187	2.33	0.071	65.9	18.75	108.0	5.05	45.7	3.70
40417116		11.71	0.074	7.82	0.36	620	1.49	0.199	2.34	0.077	62.1	24.4	175.5	5.40	47.8	4.27
40417117		9.32	0.067	7.58	0.29	550	1.43	0.210	2.27	0.091	55.9	29.2	250	6.44	54.0	5.29
40417118		1.42	0.026	8.52	0.99	470	1.88	0.058	5.38	0.123	60.8	43.2	63.4	1.96	46.7	8.53
40417119		0.86	0.114	7.01	0.29	610	0.86	0.220	0.51	0.743	14.80	2.26	8.4	2.48	32.3	0.680

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ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 604 984 0221 Fax: +1 604 984 0218  
www.alsglobal.com/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 4 - B  
Total # Pages: 6 (A - D)  
Plus Appendix Pages  
Finalized Date: 15-SEP-2022  
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Project: EB80001657

**CERTIFICATE OF ANALYSIS TB2221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417080		18.25	0.13	3.05	0.028	2.15	26.9	40.3	1.37	589	1.01	2.85	5.54	43.6	0.064	17.20
40417081		18.35	0.14	3.06	0.034	2.11	26.4	40.1	1.55	652	1.28	2.75	5.76	49.3	0.063	17.10
40417082		18.20	0.15	2.90	0.045	1.87	22.3	48.6	2.04	974	2.95	2.25	5.61	81.4	0.062	13.55
40417083		18.15	0.14	3.01	0.035	1.80	25.3	50.2	1.70	741	1.50	2.36	5.43	63.5	0.062	14.90
40417084		19.35	0.09	2.30	0.013	2.58	10.75	17.9	0.33	184.0	0.70	3.51	4.50	7.28	0.025	31.4
40417085		20.9	0.11	2.88	0.025	1.52	20.9	37.0	0.72	280	0.93	3.56	4.83	13.30	0.051	19.60
40417086		15.85	0.10	2.54	0.007	4.80	13.30	7.1	0.08	74.7	0.67	2.77	1.390	2.87	0.012	55.0
40417087		21.1	0.12	2.92	0.028	1.86	26.6	38.0	1.04	341	1.20	3.43	5.17	34.3	0.073	18.90
40417088		18.95	0.13	2.06	0.017	2.38	28.8	22.2	0.41	218	0.76	3.34	4.65	7.20	0.026	28.4
40417089		19.70	0.16	3.15	0.040	2.17	29.8	41.6	1.79	710	1.58	2.54	6.17	63.7	0.069	17.85
40417090		25.1	0.20	2.12	0.095	1.57	24.2	15.6	2.48	1100	1.32	2.55	10.35	47.6	0.193	9.10
40417091		18.55	0.14	2.87	0.037	2.88	23.2	44.6	1.41	649	1.56	2.59	6.16	59.6	0.047	24.5
40417092		18.50	0.16	3.10	0.034	2.24	36.4	49.3	1.62	615	1.72	2.67	6.83	63.2	0.073	15.95
40417093		19.10	0.15	3.36	0.032	2.14	34.2	46.0	1.54	610	1.62	2.71	7.30	62.4	0.070	17.50
40417094		18.65	0.15	3.03	0.039	1.99	26.7	51.5	2.21	679	1.55	2.56	6.15	91.1	0.074	14.40
40417095		19.00	0.16	5.07	0.015	3.25	56.9	19.3	0.34	221	0.96	3.22	6.42	6.69	0.053	35.7
40417096		22.1	0.18	3.48	0.035	2.07	40.1	51.2	1.49	597	2.05	3.06	7.49	52.5	0.106	17.65
40417097		13.65	0.08	0.718	0.009	5.06	10.40	8.6	0.12	120.0	1.05	2.18	3.26	1.46	0.010	49.1
40417098		15.20	0.10	1.935	0.020	3.74	16.70	18.9	0.45	237	1.04	2.48	4.14	16.10	0.022	38.5
40417099		18.45	0.14	3.46	0.039	1.82	30.2	54.5	1.55	616	1.45	2.49	6.52	61.7	0.062	16.00
40417100		20.7	0.14	2.61	0.072	0.83	9.75	41.2	4.30	1075	2.92	1.555	7.56	715	0.068	5.94
40417101		15.50	0.13	4.94	0.014	3.84	27.9	12.9	0.16	158.0	1.28	2.56	4.65	7.32	0.013	52.5
40417102		18.65	0.14	3.26	0.033	2.11	25.3	49.1	1.61	594	1.54	2.52	6.32	63.6	0.059	17.40
40417103		17.85	0.14	2.93	0.036	2.46	22.7	48.6	1.63	665	1.86	2.51	5.91	64.7	0.055	17.95
40417104		21.5	0.15	2.88	0.022	2.15	23.1	37.8	1.20	484	0.82	3.38	4.33	41.6	0.061	17.60
40417105		21.1	0.14	3.11	0.031	1.94	22.7	44.2	1.52	618	1.62	3.03	5.28	60.1	0.063	13.75
40417106		16.85	0.17	2.78	0.031	2.65	30.7	51.8	2.60	608	1.78	2.24	5.59	117.5	0.085	25.7
40417107		19.45	0.16	3.17	0.033	2.73	32.0	43.5	1.30	509	2.00	2.68	7.56	40.3	0.056	40.6
40417108		18.45	0.15	2.71	0.032	2.85	29.4	68.0	1.78	570	1.25	2.39	6.46	55.9	0.073	27.7
40417109		15.60	0.12	7.49	0.006	4.03	25.9	10.4	0.14	115.5	2.00	2.80	2.41	2.37	0.010	53.1
40417110		19.30	0.14	3.08	0.042	2.46	25.6	69.8	1.87	650	1.60	2.52	6.49	65.3	0.066	14.55
40417111		15.10	0.13	8.83	0.006	5.03	54.4	10.4	0.18	168.5	1.73	2.38	4.72	1.89	0.016	53.9
40417112		19.05	0.15	5.80	0.021	3.59	46.0	35.4	0.83	362	1.61	2.72	6.63	29.4	0.042	32.7
40417113		16.65	0.10	2.77	0.005	5.34	26.6	12.3	0.19	176.0	7.26	2.04	5.23	2.46	0.016	58.2
40417114		19.20	0.11	3.33	0.025	3.33	25.6	37.8	1.26	517	2.09	2.62	6.74	47.9	0.047	33.1
40417115		21.9	0.13	6.29	0.034	2.19	29.2	40.3	1.48	551	1.47	2.91	8.69	59.2	0.082	20.4
40417116		20.9	0.15	3.83	0.029	2.30	28.4	50.8	2.02	662	1.75	2.64	7.62	101.0	0.067	17.50
40417117		21.6	0.15	3.43	0.047	2.75	25.5	58.5	2.45	785	1.82	2.35	8.20	123.0	0.070	20.6
40417118		26.1	0.22	2.12	0.094	1.32	25.5	16.1	2.77	1245	1.14	2.57	12.15	65.6	0.213	7.64
40417119		15.60	<0.05	4.48	0.012	4.80	6.77	5.9	0.07	83.7	1.00	2.55	1.160	1.60	0.013	90.5

\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 4 - C  
Total # Pages: 6 (A - D)  
Plus Appendix Pages  
Finalized Date: 15-SEP-2022  
Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417080		71.4	0.0004	0.17	0.06	12.55	0.111	1.21	489	0.39	0.024	7.65	0.308	0.431	1.67	90.0
40417081		71.1	0.0005	0.21	0.06	14.25	0.120	1.32	456	0.42	0.030	7.26	0.327	0.439	1.80	99.1
40417082		63.4	0.0009	0.36	0.10	21.0	0.267	0.95	450	0.39	0.041	4.83	0.395	0.405	1.40	141.5
40417083		63.8	0.0005	0.26	0.11	15.70	0.167	1.00	435	0.41	0.026	6.27	0.323	0.406	1.97	109.5
40417084		76.6	<0.0004	0.09	0.05	3.46	0.042	1.68	310	0.31	0.005	6.49	0.080	0.419	2.62	13.9
40417085		67.0	<0.0004	0.08	0.04	5.38	0.020	2.47	545	0.31	<0.005	4.76	0.158	0.385	1.44	31.8
40417086		123.0	<0.0004	0.13	0.04	0.91	0.063	0.57	265	0.11	0.006	14.15	0.018	0.623	3.80	2.0
40417087		70.5	<0.0004	0.12	0.05	5.83	0.030	2.31	677	0.58	<0.005	5.24	0.178	0.399	2.21	35.3
40417088		79.4	<0.0004	0.03	0.03	3.97	0.021	2.10	369	0.31	<0.005	19.40	0.103	0.423	2.51	16.0
40417089		77.6	0.0008	0.25	0.03	16.85	0.155	1.23	464	0.43	0.029	10.30	0.331	0.491	2.34	110.5
40417090		69.0	0.0011	0.17	0.06	25.9	0.127	1.58	524	0.57	0.017	3.85	0.964	0.347	1.36	195.0
40417091		108.5	0.0008	0.23	0.03	15.30	0.181	1.54	384	0.48	0.028	8.92	0.292	0.654	6.18	95.0
40417092		103.0	0.0006	0.22	0.02	13.95	0.143	1.58	446	0.51	0.026	9.71	0.330	0.628	2.51	97.7
40417093		80.8	0.0006	0.23	0.03	13.65	0.149	1.72	457	0.54	0.030	8.33	0.319	0.506	2.44	93.8
40417094		69.7	0.0007	0.25	0.03	15.35	0.172	1.22	465	0.45	0.026	6.51	0.330	0.454	1.64	106.0
40417095		97.8	<0.0004	0.20	0.03	3.23	0.120	2.02	502	0.37	0.008	14.95	0.148	0.525	3.20	21.1
40417096		89.5	0.0008	0.25	0.03	12.45	0.123	1.70	744	0.52	0.019	7.22	0.338	0.599	2.24	87.5
40417097		137.0	<0.0004	0.01	0.03	1.89	<0.006	0.85	205	0.20	<0.005	8.27	0.039	0.663	5.82	2.7
40417098		106.0	<0.0004	0.06	0.04	4.56	0.042	1.26	232	0.30	0.006	11.40	0.095	0.556	6.82	22.0
40417099		78.5	0.0006	0.22	0.03	15.10	0.148	1.68	354	0.52	0.030	8.74	0.325	0.511	2.65	101.0
40417100		13.80	0.0029	0.34	0.56	20.1	0.891	1.70	421	0.48	0.075	1.035	0.776	0.489	0.32	172.5
40417101		104.0	<0.0004	0.02	0.03	2.99	0.015	1.20	199.5	0.32	<0.005	22.1	0.054	0.564	16.00	7.3
40417102		76.9	0.0006	0.20	0.03	14.55	0.156	1.20	377	0.49	0.030	7.35	0.315	0.513	5.05	95.3
40417103		78.2	0.0009	0.23	0.03	15.35	0.152	1.08	374	0.41	0.031	6.91	0.323	0.483	2.02	103.5
40417104		83.1	<0.0004	0.11	0.04	7.75	0.012	0.90	610	0.30	<0.005	5.21	0.246	0.475	2.55	54.5
40417105		66.5	0.0005	0.14	0.04	11.65	0.091	1.00	506	0.36	0.016	5.82	0.304	0.444	1.32	85.2
40417106		84.9	0.0004	0.17	0.03	13.20	0.104	1.13	401	0.44	0.016	9.28	0.278	0.540	15.10	85.0
40417107		94.0	0.0004	0.15	0.05	12.50	0.111	1.69	343	0.56	0.023	18.05	0.249	0.532	26.8	71.9
40417108		94.1	0.0005	0.20	0.06	13.30	0.131	1.34	352	0.52	0.022	11.10	0.281	0.558	12.85	86.4
40417109		104.0	<0.0004	0.01	0.03	1.60	0.012	0.74	192.5	0.22	<0.005	22.7	0.029	0.515	28.2	3.3
40417110		99.0	0.0007	0.20	0.03	15.35	0.149	1.52	384	0.49	0.030	7.03	0.334	0.611	2.95	104.0
40417111		141.0	<0.0004	0.01	0.04	2.41	0.031	0.67	189.0	0.30	<0.005	42.4	0.046	0.719	22.9	3.3
40417112		127.5	0.0005	0.08	0.04	7.97	0.077	1.13	287	0.39	0.011	24.9	0.190	0.681	8.81	45.9
40417113		154.0	<0.0004	0.01	0.04	3.51	0.019	1.29	209	0.41	<0.005	21.6	0.070	0.860	20.8	6.4
40417114		132.0	0.0006	0.15	0.02	11.30	0.100	0.98	336	0.50	0.018	13.30	0.231	0.762	12.70	71.3
40417115		86.7	0.0006	0.20	0.02	12.50	0.151	1.52	481	0.68	0.021	14.65	0.286	0.594	4.19	81.9
40417116		81.7	0.0007	0.20	0.04	14.30	0.167	1.13	471	0.80	0.026	11.75	0.312	0.572	2.95	101.0
40417117		106.5	0.0009	0.21	0.03	18.35	0.162	1.35	383	0.57	0.030	8.51	0.330	0.768	3.45	119.5
40417118		75.0	0.0011	0.14	0.15	27.3	0.109	1.65	461	0.67	0.011	2.93	1.120	0.343	1.86	205
40417119		133.5	<0.0004	0.13	0.04	0.67	0.058	0.48	213	0.07	0.006	6.47	0.015	0.731	17.35	2.0

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - D  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417080		0.426	10.90	69.7	117.0	0.0026	0.004	0.002	2	0.9	1.0
40417081		0.637	11.70	73.3	113.5	0.0029	0.004	0.004	1	1.1	1.3
40417082		0.442	15.10	99.5	110.0	0.0029	0.005	0.016	1	2.0	2.2
40417083		0.509	13.05	84.2	118.0	0.0029	0.004	0.009	1	1.5	1.6
40417084		0.305	4.07	33.0	68.8	0.0015	<0.004	0.002	1	0.2	<0.2
40417085		0.274	5.19	55.7	110.0	0.0019	<0.004	0.003	1	0.1	0.2
40417086		0.151	3.20	25.8	63.8	0.0015	<0.004	0.005	1	0.1	<0.2
40417087		0.296	6.24	56.2	116.5	0.0026	<0.004	0.002	1	0.1	<0.2
40417088		0.244	5.07	35.1	70.5	0.0023	<0.004	<0.002	1	0.2	<0.2
40417089		1.245	12.50	79.1	115.5	0.0025	0.004	0.012	1	1.2	1.4
40417090		0.258	40.5	117.0	72.6	0.0030	<0.004	0.023	1	0.1	0.2
40417091		0.734	10.40	75.2	98.8	0.0029	0.006	0.003	2	2.1	4.0
40417092		0.497	11.95	80.4	118.5	0.0031	0.004	<0.002	1	1.1	1.2
40417093		0.454	11.20	80.0	133.0	0.0030	0.005	<0.002	1	1.1	1.2
40417094		0.409	11.90	79.3	114.5	0.0027	0.006	0.002	1	1.5	1.6
40417095		0.191	6.90	49.8	206	0.0041	0.005	0.009	1	0.1	<0.2
40417096		0.342	11.40	86.2	139.0	0.0032	0.004	<0.002	1	0.8	0.9
40417097		0.133	1.58	16.2	18.9	0.0004	<0.004	0.003	1	<0.1	<0.2
40417098		0.250	3.91	28.1	59.8	0.0014	<0.004	<0.002	1	0.3	0.3
40417099		0.368	12.40	82.2	124.0	0.0031	0.005	0.009	1	1.2	1.4
40417100		0.265	18.00	105.0	99.4	0.0212	0.038	0.234	21	37.1	214
40417101		0.160	4.26	21.8	142.0	0.0036	0.006	<0.002	1	0.2	0.3
40417102		0.485	11.15	76.1	122.5	0.0026	0.005	0.006	1	1.4	1.5
40417103		0.447	11.70	78.9	111.0	0.0022	<0.004	0.009	2	1.6	1.9
40417104		0.165	6.57	76.7	115.0	0.0021	0.005	0.007	3	0.4	0.4
40417105		0.303	9.07	83.2	118.0	0.0028	0.004	<0.002	1	0.9	0.9
40417106		0.502	11.40	69.8	100.0	0.0023	<0.004	<0.002	2	1.8	1.8
40417107		0.512	11.95	69.2	112.0	0.0030	0.005	0.002	2	1.1	1.1
40417108		0.484	11.25	59.4	98.1	0.0027	0.005	0.005	3	2.5	6.2
40417109		0.169	4.56	12.1	207	0.0050	0.007	0.003	2	0.2	0.3
40417110		0.536	11.80	80.6	113.0	0.0031	0.004	0.004	2	1.4	1.6
40417111		0.347	8.60	18.2	232	0.0047	0.007	<0.002	2	0.2	0.3
40417112		0.320	9.29	54.9	180.0	0.0032	0.006	<0.002	2	0.6	0.7
40417113		0.276	4.85	25.8	82.5	0.0010	0.004	<0.002	2	0.2	0.3
40417114		0.381	10.35	61.6	106.5	0.0008	0.005	<0.002	2	1.0	1.2
40417115		0.409	13.70	79.5	190.5	0.0027	0.004	<0.002	2	1.1	1.2
40417116		0.503	12.45	77.6	129.5	0.0015	0.008	<0.002	2	1.6	1.7
40417117		0.652	13.70	85.9	118.5	0.0010	0.006	<0.002	2	2.1	2.2
40417118		0.335	43.1	131.0	67.3	0.0013	<0.004	<0.002	2	0.3	0.5
40417119		0.142	4.51	254	89.6	0.0027	0.006	<0.002	2	0.6	0.2



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

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417120		0.83	0.020	8.26	1.34	640	2.12	0.049	4.52	0.099	55.0	29.1	38.6	1.97	33.5	6.13
40417121		1.33	0.095	7.49	0.48	430	1.46	0.473	0.84	0.062	56.9	5.13	26.5	2.22	40.8	1.550
40417122		1.14	0.010	6.88	0.43	520	2.91	0.379	4.16	0.245	85.1	50.0	458	16.10	3.44	6.41
40417123		2.50	0.075	6.53	0.36	296	1.42	0.157	0.99	0.059	144.0	1.805	12.2	1.38	7.79	0.940
40417124		1.49	0.060	7.82	0.25	460	1.88	0.092	1.79	0.042	46.8	7.18	31.1	3.76	7.54	2.10
40417125		3.57	0.076	7.93	0.33	362	1.75	0.285	1.91	0.070	74.3	9.07	49.4	2.09	18.10	2.01
40417126		1.48	0.064	7.70	0.30	680	1.98	0.089	1.47	0.043	32.4	5.78	25.8	2.95	13.85	1.830
40417127		1.75	0.132	7.80	0.34	580	1.94	0.238	4.14	0.169	97.6	27.7	212	3.66	46.7	4.12
40417128		2.04	0.050	8.02	0.16	850	1.76	0.075	2.45	0.040	55.0	11.15	46.0	3.41	6.54	2.63
40417129		4.93	0.068	7.63	0.62	700	1.34	0.220	2.26	0.095	51.2	23.7	122.5	4.17	52.9	4.48
40417130		0.17	0.526	9.05	6.11	341	0.63	0.142	6.52	0.261	28.3	69.6	1770	2.67	1130	8.36
40417131		2.30	0.031	7.00	0.24	580	0.86	0.117	0.62	0.026	31.6	1.230	10.2	2.12	1.12	0.900
40417132		2.99	0.082	7.61	0.33	620	1.34	0.209	2.22	0.089	54.4	22.7	111.0	5.61	50.2	4.31
40417133		3.11	0.025	6.78	0.09	450	1.00	0.103	0.66	0.023	36.3	2.68	11.9	3.98	1.74	1.670
40417134		10.28	0.078	7.97	0.26	780	1.68	0.300	2.83	0.091	81.0	23.5	117.5	5.02	52.2	4.20
40417135		2.29	0.025	7.01	0.13	660	0.77	0.074	0.58	0.017	43.0	1.660	13.2	1.89	1.94	0.960
40417136		11.45	0.079	7.96	0.13	800	1.33	0.153	2.08	0.074	67.8	20.9	95.6	5.00	46.2	4.15
40417137		4.23	0.056	8.04	0.13	890	1.29	0.152	2.03	0.067	76.3	20.3	99.1	4.38	43.8	4.16
40417138		1.97	0.190	7.60	0.19	700	2.73	0.226	1.69	0.080	99.8	11.05	41.6	4.08	54.2	2.73
40417139		3.08	0.080	7.64	0.18	700	1.29	0.176	2.03	0.081	60.8	21.2	121.5	4.50	45.8	4.26
40417140		3.12	0.080	7.69	0.26	700	1.32	0.175	2.09	0.081	58.7	21.1	120.0	4.57	44.7	4.32
40417141		5.25	0.078	7.46	0.23	590	1.28	0.185	2.62	0.081	58.2	23.8	172.5	4.78	52.1	4.65
40417142		1.29	0.082	7.32	0.24	600	1.84	0.165	1.15	0.047	88.6	4.38	21.2	3.37	33.9	1.880
40417143		5.23	0.150	8.07	0.48	1210	2.03	0.195	2.08	0.111	136.0	12.55	42.7	4.10	39.4	2.94
40417144		3.76	0.062	6.86	0.25	337	1.53	0.157	0.93	0.034	41.7	2.25	15.6	1.92	5.25	1.240
40417145		7.63	0.094	8.07	0.23	610	1.28	0.192	2.12	0.086	60.9	24.4	124.5	5.61	56.6	5.53
40417146		3.01	0.005	6.28	0.19	500	0.63	0.064	0.49	0.018	42.8	1.900	11.2	1.98	1.76	1.180
40417147		1.60	0.059	7.53	0.22	660	1.08	0.118	1.98	0.069	73.2	13.95	79.7	3.59	35.9	3.42
40417148		4.62	0.079	7.44	0.03	510	1.23	0.180	2.03	0.078	48.0	22.4	138.0	6.48	62.7	4.64
40417149		4.95	0.092	7.35	<0.02	670	1.29	0.160	2.32	0.061	57.0	20.9	154.0	4.81	64.3	4.22
40417150		1.20	0.023	8.66	0.77	510	2.05	0.032	5.12	0.103	66.9	31.8	47.3	1.34	33.9	7.33
40417151		4.09	0.036	6.96	0.11	590	0.87	0.068	0.67	0.015	50.9	4.18	24.5	2.81	7.01	1.440
40417152		2.95	0.034	6.90	0.10	500	0.98	0.044	0.68	0.018	58.5	1.720	12.0	2.55	1.14	1.120
40417153		4.45	0.047	7.71	0.15	590	2.23	0.082	2.06	0.037	47.7	10.40	59.6	5.26	11.55	2.60
40417154		2.12	0.061	7.58	0.22	580	1.91	0.106	1.11	0.044	27.9	2.06	10.4	2.67	15.15	0.910
40417155		3.13	0.077	7.99	0.17	610	1.77	0.132	2.76	0.047	48.0	13.20	72.1	4.57	18.45	2.75
40417156		2.08	0.030	7.70	0.11	580	1.12	0.091	0.84	0.022	62.8	2.76	14.0	3.75	1.14	1.430
40417157		5.06	0.076	8.07	0.10	660	1.37	0.125	2.17	0.059	53.3	17.25	97.1	5.34	39.7	3.84
40417158		3.44	0.031	7.39	0.18	600	1.15	0.143	0.58	0.020	73.8	1.170	10.2	2.57	0.87	0.890
40417159		1.94	0.080	7.91	0.27	620	1.29	0.155	2.24	0.078	64.9	19.35	111.0	4.02	45.7	4.30

\*\*\*\*\* 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  
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To: RIO TINTO EXPLORATION CANADA INC.  
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 THUNDER BAY ON P7E 4X4

Page: 5 - B  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
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Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417120		24.9	0.18	2.42	0.076	2.01	22.6	16.7	1.86	956	0.99	2.57	10.20	36.9	0.155	12.70
40417121		19.60	0.10	2.60	0.014	4.16	26.8	16.3	0.30	183.0	1.29	2.94	6.44	9.77	0.019	42.1
40417122		24.1	0.22	2.83	0.070	2.50	38.0	118.5	6.06	1210	0.33	1.300	7.57	299	0.129	5.43
40417123		15.95	0.16	2.55	0.011	2.96	64.3	11.5	0.16	138.0	1.02	2.97	4.19	3.76	0.017	40.0
40417124		23.9	0.10	3.38	0.029	1.59	21.8	42.7	0.70	330	0.65	3.75	7.07	14.40	0.042	21.7
40417125		20.1	0.12	2.71	0.012	2.62	33.9	23.3	0.82	339	0.86	3.41	4.74	26.8	0.037	33.5
40417126		22.8	0.08	2.98	0.028	2.98	15.75	30.9	0.58	326	0.71	3.26	8.18	11.30	0.067	31.8
40417127		24.1	0.19	3.72	0.032	1.54	48.3	40.7	3.26	791	0.76	2.77	6.97	149.0	0.128	27.2
40417128		21.0	0.10	3.22	0.016	1.95	26.5	46.1	1.16	493	0.77	3.19	4.69	22.6	0.083	14.80
40417129		18.50	0.12	3.29	0.038	2.00	25.2	44.9	1.73	789	2.32	2.56	6.41	66.6	0.059	17.10
40417130		21.3	0.17	2.76	0.051	0.86	12.75	41.2	4.37	1090	3.15	1.565	8.40	720	0.067	5.97
40417131		14.60	0.06	1.315	0.005	5.13	14.65	8.9	0.13	124.5	1.79	2.22	4.34	2.41	0.011	55.2
40417132		20.1	0.13	3.03	0.033	2.57	24.8	52.1	1.86	739	1.62	2.53	6.82	70.8	0.076	18.25
40417133		16.45	0.08	1.495	0.017	4.50	17.30	20.8	0.31	223	1.08	2.18	9.19	4.80	0.010	54.3
40417134		22.9	0.18	3.97	0.029	2.10	37.1	44.6	2.02	671	3.72	2.70	7.38	81.3	0.103	16.15
40417135		15.90	0.08	3.70	0.007	5.44	19.55	9.3	0.15	131.0	1.05	2.07	5.02	3.70	0.012	55.8
40417136		21.5	0.13	3.90	0.038	2.39	34.4	48.4	1.43	614	2.21	2.87	7.93	54.8	0.062	18.55
40417137		20.1	0.14	4.17	0.031	2.32	37.6	47.9	1.60	632	1.68	2.88	7.54	60.2	0.078	16.85
40417138		20.3	0.13	4.61	0.012	2.06	51.3	31.7	0.75	381	1.03	3.33	10.80	25.0	0.063	22.8
40417139		20.5	0.14	3.64	0.033	2.23	29.8	51.9	1.69	647	1.87	2.74	7.04	67.1	0.063	17.35
40417140		19.75	0.14	3.33	0.033	2.25	28.1	51.1	1.72	647	1.80	2.68	6.66	65.5	0.066	16.50
40417141		20.6	0.15	3.17	0.037	2.04	27.6	52.2	2.26	714	1.75	2.56	6.85	102.5	0.079	13.85
40417142		18.95	0.12	3.73	0.018	3.93	41.1	18.6	0.33	251	1.12	2.81	9.00	7.84	0.089	36.8
40417143		22.9	0.18	5.28	0.028	2.40	66.2	46.5	1.16	516	0.79	3.12	9.56	33.2	0.134	31.3
40417144		17.15	0.08	2.37	0.012	3.23	20.1	14.3	0.23	189.5	1.11	2.95	5.10	5.47	0.016	40.5
40417145		21.7	0.16	3.40	0.039	2.19	29.3	63.0	1.75	730	2.03	2.69	7.23	74.2	0.067	17.55
40417146		14.25	0.08	3.15	0.010	4.70	18.95	11.2	0.19	155.0	1.37	1.870	6.24	2.38	0.009	48.7
40417147		16.00	0.08	3.68	0.025	2.33	38.6	41.1	1.12	487	1.52	2.47	6.20	37.8	0.054	23.2
40417148		16.50	0.08	2.80	0.041	2.08	22.4	59.6	1.75	693	1.72	2.41	5.92	68.9	0.064	14.15
40417149		16.15	0.09	3.08	0.033	2.09	27.7	47.7	1.77	628	1.48	2.39	6.58	61.2	0.074	17.10
40417150		21.2	0.13	2.03	0.088	1.45	27.3	15.5	2.41	1120	1.04	2.60	11.90	44.0	0.209	8.99
40417151		13.10	0.09	1.910	0.016	4.80	23.2	20.9	0.33	208	1.25	2.16	4.34	12.00	0.020	49.0
40417152		13.10	0.09	1.605	0.014	4.45	26.5	18.1	0.21	162.5	1.22	2.32	5.63	1.98	0.007	48.0
40417153		18.30	0.08	3.22	0.031	1.99	21.2	55.9	1.06	416	0.84	3.13	6.52	34.6	0.069	19.80
40417154		17.00	0.06	3.06	0.010	4.21	11.80	13.8	0.15	144.0	0.93	3.11	4.47	4.25	0.057	47.8
40417155		19.95	0.08	2.93	0.022	1.52	20.7	52.5	1.37	488	0.75	3.06	5.00	41.3	0.075	13.90
40417156		15.55	0.11	0.634	0.018	4.67	28.7	27.2	0.33	226	11.45	2.46	6.73	5.99	0.085	62.1
40417157		18.50	0.10	3.11	0.035	2.16	25.7	51.0	1.39	597	2.16	2.83	6.33	51.6	0.076	16.90
40417158		13.60	0.11	4.23	0.006	5.07	33.9	11.1	0.15	133.0	0.93	2.43	4.11	1.71	0.016	54.8
40417159		16.45	0.10	3.21	0.030	2.07	31.1	61.2	1.76	654	1.66	2.65	6.94	61.4	0.084	17.25



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

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Page: 5 - C  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40417120		84.5	0.0009	0.13	0.10	23.3	0.096	1.34	479	0.57	0.014	2.99	0.756	0.432	1.50	152.5
40417121		128.0	<0.0004	0.19	0.06	3.97	0.088	2.41	220	0.58	0.011	19.95	0.072	0.659	3.50	8.6
40417122		173.5	<0.0004	0.02	0.13	20.7	0.030	5.24	301	0.42	<0.005	5.20	0.419	1.320	1.84	135.5
40417123		83.9	<0.0004	0.05	0.04	2.18	0.051	1.45	217	0.31	<0.005	51.0	0.045	0.446	4.55	4.3
40417124		77.4	<0.0004	0.04	0.03	6.10	0.027	2.74	485	0.57	<0.005	8.87	0.168	0.487	2.78	31.2
40417125		91.0	<0.0004	0.08	0.05	5.26	0.048	1.52	319	0.37	0.005	21.9	0.156	0.475	3.16	34.0
40417126		104.5	<0.0004	0.06	0.03	5.07	0.023	2.86	424	0.78	<0.005	6.53	0.138	0.574	8.18	27.3
40417127		90.0	<0.0004	0.38	0.05	14.45	0.105	1.53	819	0.64	0.007	9.79	0.314	0.526	3.97	101.0
40417128		78.8	<0.0004	0.10	0.05	6.15	0.039	1.09	788	0.39	<0.005	4.24	0.229	0.481	1.29	51.0
40417129		81.9	0.0008	0.31	0.09	13.70	0.186	1.09	424	0.51	0.032	7.72	0.315	0.489	3.25	107.5
40417130		21.0	0.0031	0.34	0.67	19.65	0.888	1.75	420	0.50	0.062	1.335	0.771	0.532	0.36	171.0
40417131		132.5	<0.0004	0.01	0.03	1.90	0.009	0.87	211	0.31	<0.005	12.85	0.041	0.692	10.50	4.0
40417132		106.5	0.0007	0.20	0.03	14.30	0.131	1.46	429	0.49	0.021	6.83	0.325	0.704	5.39	103.5
40417133		144.0	<0.0004	0.01	0.02	5.05	0.013	2.12	189.0	0.61	<0.005	15.10	0.103	0.778	24.7	9.5
40417134		93.3	0.0013	0.22	0.03	15.95	0.138	1.49	704	0.51	0.020	9.90	0.353	0.608	2.77	104.0
40417135		143.5	<0.0004	0.03	0.03	2.66	0.022	0.93	223	0.52	<0.005	16.75	0.049	0.723	12.95	4.8
40417136		99.2	0.0006	0.21	0.02	13.75	0.160	1.54	438	0.64	0.034	11.75	0.326	0.616	2.86	100.0
40417137		92.3	0.0006	0.25	0.02	12.25	0.128	1.09	549	0.52	0.024	9.28	0.345	0.542	2.27	94.3
40417138		76.3	<0.0004	0.30	0.05	5.69	0.173	1.24	597	0.93	0.018	13.85	0.224	0.443	3.39	46.6
40417139		89.6	0.0007	0.20	0.04	13.90	0.158	1.35	405	0.51	0.023	10.25	0.310	0.554	2.45	97.7
40417140		93.9	0.0007	0.18	0.04	13.40	0.142	1.45	416	0.50	0.027	9.21	0.309	0.567	2.34	99.5
40417141		92.7	0.0004	0.23	0.02	13.95	0.143	1.97	459	0.51	0.025	8.13	0.315	0.613	2.14	99.3
40417142		125.0	<0.0004	0.17	0.03	4.56	0.135	2.37	312	0.92	0.010	21.9	0.114	0.666	4.23	15.8
40417143		111.0	<0.0004	0.38	0.04	6.62	0.102	1.92	895	0.47	0.007	11.40	0.332	0.626	2.03	57.5
40417144		97.2	<0.0004	0.03	0.04	3.18	0.040	1.39	207	0.42	0.005	14.40	0.066	0.498	4.46	9.5
40417145		98.8	0.0009	0.24	0.04	16.95	0.171	1.52	390	0.57	0.036	8.85	0.356	0.623	2.84	113.0
40417146		140.0	<0.0004	0.01	0.03	3.45	0.026	1.30	187.0	0.33	<0.005	15.75	0.071	0.715	8.02	5.6
40417147		78.6	0.0006	0.17	0.03	9.55	0.106	1.09	311	0.40	0.019	14.30	0.268	0.482	2.33	73.9
40417148		96.3	0.0007	0.25	0.04	15.75	0.179	1.76	319	0.44	0.036	6.20	0.338	0.671	2.65	113.0
40417149		92.4	0.0008	0.31	0.02	13.60	0.217	1.50	434	0.48	0.032	8.34	0.308	0.605	2.11	99.5
40417150		59.4	0.0009	0.14	0.08	23.9	0.111	1.77	507	1.19	0.013	6.03	0.934	0.300	1.81	182.5
40417151		143.0	0.0004	0.03	0.03	4.22	0.039	1.19	222	0.30	0.007	17.00	0.089	0.754	8.00	19.7
40417152		131.0	<0.0004	0.01	0.03	3.19	0.007	1.47	204	0.35	<0.005	21.5	0.072	0.673	9.43	5.8
40417153		96.3	<0.0004	0.06	0.04	7.08	0.032	1.90	474	0.57	<0.005	9.21	0.221	0.638	3.34	48.7
40417154		115.0	<0.0004	0.08	0.02	2.08	0.035	0.93	257	0.37	<0.005	8.55	0.048	0.601	7.56	5.0
40417155		70.5	<0.0004	0.13	0.03	7.40	0.027	1.18	713	0.33	<0.005	3.86	0.251	0.508	1.70	61.0
40417156		130.0	<0.0004	0.01	0.03	4.36	0.016	2.09	235	0.44	<0.005	21.6	0.101	0.859	30.8	11.5
40417157		96.6	0.0005	0.20	0.03	12.25	0.119	1.34	433	0.47	0.025	8.30	0.297	0.615	2.80	88.5
40417158		139.5	<0.0004	0.01	0.02	2.47	0.014	1.15	212	0.35	<0.005	26.2	0.050	0.725	12.70	3.7
40417159		101.5	0.0006	0.20	0.05	12.95	0.121	1.62	474	0.52	0.027	8.58	0.320	0.622	2.90	99.4



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - D  
 Total # Pages: 6 (A - D)  
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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417120		0.309	35.6	105.0	81.2	0.0015	0.004	<0.002	2	0.3	0.5
40417121		0.347	5.96	37.5	68.5	0.0011	0.004	<0.002	2	0.2	0.3
40417122		0.428	13.85	147.0	106.0	0.0015	0.005	<0.002	2	1.4	1.0
40417123		0.301	9.43	22.8	66.2	0.0008	0.004	<0.002	2	0.2	0.2
40417124		0.347	5.50	59.8	116.5	0.0014	0.004	<0.002	2	0.2	0.3
40417125		0.347	7.52	46.2	77.9	0.0008	0.004	<0.002	2	0.2	0.4
40417126		0.320	9.76	52.3	94.1	0.0012	<0.004	<0.002	2	0.5	0.3
40417127		0.491	13.20	113.0	123.5	0.0029	<0.004	<0.002	2	1.3	1.6
40417128		0.201	6.45	65.9	121.0	0.0015	<0.004	<0.002	2	0.3	0.4
40417129		0.533	12.20	84.4	115.0	0.0028	0.005	<0.002	2	1.6	1.8
40417130		0.254	20.3	110.0	103.5	0.0139	0.031	0.174	22	36.9	207
40417131		0.227	3.02	17.7	36.9	0.0004	<0.004	<0.002	2	0.2	0.3
40417132		0.460	11.35	84.6	110.5	0.0014	0.006	<0.002	3	2.6	6.4
40417133		0.350	3.70	40.4	41.2	0.0004	<0.004	<0.002	1	0.2	0.2
40417134		0.452	12.30	81.5	144.0	0.0019	0.007	<0.002	2	1.2	1.2
40417135		0.226	3.58	20.8	98.7	0.0013	0.005	<0.002	2	0.2	0.3
40417136		0.575	11.30	81.9	138.5	0.0022	<0.004	<0.002	3	2.8	6.8
40417137		0.441	11.35	78.1	151.0	0.0022	0.005	<0.002	2	1.1	1.4
40417138		0.347	9.39	73.0	176.0	0.0022	0.005	<0.002	2	0.5	0.6
40417139		0.563	11.80	78.6	129.0	0.0025	<0.004	<0.002	2	1.3	1.6
40417140		0.616	11.40	78.3	121.0	0.0013	0.004	0.006	2	1.4	1.5
40417141		0.466	11.30	82.7	112.0	0.0026	0.004	<0.002	2	1.3	1.8
40417142		0.227	16.25	45.5	117.5	0.0014	0.004	<0.002	2	0.2	0.3
40417143		0.267	9.41	97.6	203	0.0022	<0.004	<0.002	2	0.3	0.4
40417144		0.252	4.22	28.6	69.9	0.0010	<0.004	<0.002	2	0.2	0.3
40417145		0.639	13.20	88.4	117.5	0.0020	0.005	<0.002	2	1.4	1.7
40417146		0.262	2.48	27.1	88.6	0.0012	0.004	<0.002	2	0.2	0.3
40417147		0.323	9.46	64.0	147.0	0.0020	0.005	0.003	2	0.8	1.0
40417148		0.527	10.25	81.7	108.5	0.0020	0.007	<0.002	2	1.4	1.7
40417149		0.385	10.80	75.2	121.5	0.0022	0.007	0.004	2	1.2	1.5
40417150		0.333	44.0	113.5	71.3	0.0031	0.005	0.004	2	0.2	0.4
40417151		0.206	4.26	26.8	60.4	0.0009	<0.004	<0.002	2	0.3	0.4
40417152		0.184	4.02	25.9	47.6	0.0010	0.004	0.002	2	0.1	0.2
40417153		0.301	7.52	59.6	120.5	0.0013	0.008	0.002	2	0.5	0.5
40417154		0.173	8.88	20.3	88.5	0.0016	0.006	0.004	2	0.1	0.2
40417155		0.401	6.18	63.7	115.0	0.0012	0.006	0.006	2	0.4	0.5
40417156		0.229	13.05	35.8	20.6	<0.0004	0.006	<0.002	2	0.2	0.3
40417157		0.420	10.15	70.7	116.5	0.0018	0.007	<0.002	2	1.2	1.4
40417158		0.174	4.33	19.5	124.5	0.0019	0.007	0.008	2	0.2	0.3
40417159		0.548	12.05	81.6	125.0	0.0019	0.007	0.005	2	1.4	1.5





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - A  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417160		0.17	0.436	9.29	3.78	338	0.60	0.170	6.48	0.247	26.1	64.1	1810	2.39	1110	8.15
40417161		6.02	0.028	7.45	0.25	570	1.14	0.473	0.66	0.045	135.5	2.03	15.8	3.28	3.70	1.320
40417162		5.39	0.040	7.11	0.11	610	1.01	0.140	0.62	0.029	68.7	2.64	23.0	3.83	2.80	1.090
40417163		5.09	0.028	7.66	0.24	650	1.09	0.186	0.40	0.011	67.1	1.850	12.5	2.58	1.46	1.210
40417164		3.43	0.032	7.32	0.14	570	1.20	0.316	0.63	0.034	67.9	2.16	13.4	2.19	4.03	1.100
40417165		1.25	0.074	7.93	0.41	373	1.54	0.193	1.79	0.054	52.9	16.35	121.5	8.88	41.6	3.94
40417166		4.39	0.088	7.56	0.09	730	1.07	0.062	0.66	0.025	63.0	1.135	10.4	2.45	0.56	0.590
40417167		1.99	0.062	7.93	0.16	480	1.50	0.090	1.56	0.048	90.2	10.95	79.1	4.28	26.4	3.10
40417168		3.79	0.096	7.88	0.13	540	1.37	0.144	2.29	0.079	52.3	18.40	128.5	3.88	41.1	3.77
40417169		1.19	0.103	8.25	0.41	490	1.31	0.156	2.26	0.087	52.8	21.2	131.0	4.13	50.4	4.56
40417170		1.22	0.097	8.08	0.40	480	1.34	0.148	2.44	0.096	56.0	21.0	128.5	4.10	49.5	4.42

\*\*\*\*\* 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  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - B  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417160		18.95	0.10	2.52	0.053	0.87	11.05	41.0	4.33	1045	2.98	1.545	7.61	706	0.068	6.48
40417161		13.45	0.15	9.40	0.020	4.87	61.6	14.9	0.27	198.0	1.41	2.51	5.68	3.73	0.029	69.5
40417162		13.45	0.10	3.17	0.014	4.74	31.8	18.4	0.35	175.5	2.67	2.30	4.87	6.03	0.020	107.5
40417163		14.30	0.12	2.05	0.011	5.17	31.1	13.3	0.32	175.0	4.20	2.56	5.27	2.84	0.015	76.6
40417164		13.90	0.09	2.69	0.014	4.23	32.9	17.1	0.34	172.0	4.86	2.82	5.38	4.38	0.036	46.2
40417165		18.10	0.10	2.64	0.037	2.08	24.8	61.6	1.47	548	2.37	3.00	8.35	52.9	0.070	18.60
40417166		14.25	0.10	2.86	0.010	5.10	29.5	10.8	0.14	100.5	1.42	2.52	3.85	1.65	0.014	55.0
40417167		18.00	0.12	9.41	0.038	2.78	42.6	42.4	1.00	402	3.83	2.91	8.65	35.8	0.046	32.7
40417168		16.75	0.09	2.77	0.034	2.06	23.1	48.4	1.63	545	1.85	2.84	6.53	57.9	0.073	18.25
40417169		17.95	0.10	3.14	0.035	2.09	23.8	62.5	1.81	667	1.86	2.90	7.36	68.9	0.066	18.10
40417170		17.85	0.09	3.22	0.036	2.08	25.2	61.1	1.75	658	2.00	2.86	7.54	64.7	0.070	19.45

\*\*\*\*\* 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  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - C  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417160		21.7	0.0029	0.35	0.48	19.85	0.910	1.70	421	0.45	0.063	1.130	0.768	0.478	0.31	173.0
40417161		138.0	<0.0004	0.03	0.04	3.40	0.022	1.53	219	0.37	0.005	49.3	0.077	0.723	29.6	8.2
40417162		133.5	<0.0004	0.02	0.03	3.64	0.007	1.51	218	0.33	<0.005	26.6	0.082	0.725	71.3	11.6
40417163		140.5	<0.0004	0.01	0.04	3.19	0.010	1.61	224	0.37	<0.005	30.5	0.067	0.745	75.2	6.9
40417164		115.5	<0.0004	0.02	0.02	3.18	0.017	1.36	231	0.32	0.005	23.0	0.071	0.605	11.40	9.2
40417165		140.5	0.0011	0.20	0.03	12.20	0.110	2.29	382	0.55	0.022	8.66	0.290	0.912	3.83	82.4
40417166		135.0	<0.0004	0.01	0.02	2.19	<0.006	0.80	233	0.27	<0.005	21.7	0.045	0.674	9.55	4.0
40417167		125.0	0.0005	0.14	0.04	9.57	0.084	1.68	311	0.46	0.016	25.8	0.204	0.731	9.77	57.3
40417168		78.1	0.0007	0.23	0.04	11.60	0.123	1.17	537	0.46	0.027	6.75	0.290	0.540	1.89	88.3
40417169		93.2	0.0008	0.26	0.05	15.35	0.177	1.34	356	0.50	0.040	6.81	0.325	0.597	2.03	104.0
40417170		89.9	0.0009	0.23	0.05	14.55	0.176	1.40	345	0.53	0.035	7.91	0.330	0.594	2.12	105.0

\*\*\*\*\* 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  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - D  
 Total # Pages: 6 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417160	0.008	0.238	18.15	107.0	101.5	0.0118	0.024	0.200	21	52.2	211
40417161	0.008	0.263	9.88	39.3	285	0.0042	0.008	<0.002	2	0.2	0.3
40417162	0.008	0.235	5.49	27.9	96.8	0.0016	0.008	<0.002	2	0.2	0.3
40417163	0.008	0.246	5.44	22.1	63.2	0.0014	0.004	0.005	2	0.2	0.3
40417164	0.008	0.203	7.17	29.3	91.2	0.0022	0.004	<0.002	1	0.2	0.2
40417165	0.008	0.386	10.55	84.9	100.0	0.0008	0.008	0.006	2	1.0	1.1
40417166	0.008	0.244	4.17	15.2	88.7	0.0013	0.005	<0.002	2	0.1	0.2
40417167	0.008	0.373	9.92	69.3	299	0.0048	0.011	<0.002	2	0.7	0.8
40417168	0.008	0.488	9.84	77.1	109.0	0.0014	0.008	0.006	4	1.0	1.2
40417169	0.008	0.663	11.85	85.1	120.5	0.0025	0.005	<0.002	2	1.4	1.6
40417170	0.008	0.699	12.00	85.6	120.5	0.0016	0.005	0.009	2	1.5	1.6



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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 15-SEP-2022  
 Account: RTECILHR

Project: EB80001657

**CERTIFICATE OF ANALYSIS TB22221580**

## CERTIFICATE COMMENTS

	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	Au, Pt & Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g) ME-MS61L												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ME-MS61L</td> <td style="width: 50%;">PGM-MS23L</td> </tr> </table>	ME-MS61L	PGM-MS23L										
ME-MS61L	PGM-MS23L												



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 1  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

**CERTIFICATE TB22240973**

Project: EB80003511  
 P.O. No.: 3105220123  
 This report is for 161 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 26-AUG-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
---	--	---------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ

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:   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Recvd Wt. kg	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Nb ppm
		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
40446125		1.62	706	61.1	63	1.32	7.70	4.25	2.00	21.5	8.39	4.89	1.53	27.3	0.56	9.39
40446126		4.17	686	66.1	224	3.51	2.41	1.37	1.30	17.2	3.62	2.94	0.49	32.0	0.18	5.67
40446127		3.75	959	175.5	26	2.22	2.67	0.75	1.18	20.0	6.21	5.45	0.37	87.3	0.08	7.91
40446128		1.68	610	39.5	63	4.50	3.31	2.01	1.25	20.3	4.31	2.61	0.71	17.7	0.29	4.50
40446129		1.91	540	52.9	214	1.94	2.12	1.17	0.89	16.8	2.81	4.14	0.40	26.5	0.18	5.75
40446130		1.84	573	61.3	139	2.15	2.30	1.21	0.95	16.9	3.25	3.14	0.46	29.9	0.16	5.70
40446131		2.28	535	71.3	140	1.97	2.19	1.25	0.99	18.8	3.48	3.23	0.43	36.1	0.15	6.80
40446132		1.68	462	39.8	558	6.67	1.83	1.02	0.98	16.7	2.71	2.18	0.35	18.6	0.13	4.17
40446133		1.89	617	65.3	107	3.91	2.72	1.18	1.18	20.2	4.35	3.33	0.55	30.5	0.15	5.61
40446134		3.46	598	130.0	8	0.54	6.76	2.96	3.74	24.5	10.10	7.75	1.24	58.8	0.36	33.7
40446135		3.22	510	134.5	<5	0.46	7.15	3.26	3.71	23.0	10.75	8.30	1.30	59.4	0.37	36.3
40446600		1.34	630	57.4	76	1.38	7.13	3.90	2.14	21.8	7.84	6.25	1.43	23.7	0.50	8.85
40446601		1.93	676	56.6	137	3.75	2.55	1.41	0.94	17.5	2.92	2.94	0.53	27.6	0.19	5.98
40446602		2.44	841	75.6	156	5.11	2.73	1.55	1.45	18.9	4.01	3.10	0.52	35.4	0.21	6.42
40446603		2.14	615	63.2	128	4.11	2.53	1.53	1.17	20.1	3.56	3.19	0.51	32.1	0.23	6.60
40446604		2.09	856	77.1	148	4.80	2.79	1.64	1.37	19.3	3.84	3.58	0.55	37.7	0.21	6.67
40446605		2.32	866	80.8	163	4.45	2.75	1.56	1.41	18.3	4.18	3.10	0.53	38.8	0.19	6.21
40446606		3.72	1020	74.3	114	2.20	2.98	1.60	1.50	18.5	4.38	3.80	0.60	34.4	0.22	5.63
40446607		2.01	735	47.4	154	3.04	2.94	1.69	1.28	17.2	3.75	2.86	0.64	22.0	0.24	4.85
40446608		2.74	653	58.6	70	3.42	2.99	1.78	1.38	18.4	3.71	2.96	0.63	27.7	0.27	5.01
40446609		0.99	671	77.7	159	9.03	2.96	1.23	1.55	20.9	4.44	2.51	0.50	35.4	0.15	6.97
40446610		0.17	334	27.2	2350	2.52	3.43	1.93	1.28	19.1	3.67	2.46	0.69	12.1	0.26	7.19
40446611		0.44	491	61.8	97	8.97	2.92	1.43	1.28	21.3	4.22	3.21	0.52	27.9	0.17	5.38
40446612		0.70	517	30.7	36	3.70	1.23	0.54	0.61	21.2	2.08	2.85	0.24	14.7	0.06	7.68
40446613		3.39	642	59.0	51	3.40	2.96	1.52	1.55	19.3	4.70	3.08	0.56	24.3	0.19	5.01
40446614		2.07	446	57.5	26	3.89	4.13	2.07	2.16	21.7	6.45	2.96	0.82	22.5	0.24	4.78
40446615		2.38	338	46.8	10	5.96	3.78	1.88	1.83	21.9	5.92	2.17	0.72	17.7	0.22	4.71
40446616		1.57	532	62.6	82	8.83	3.85	2.09	2.34	21.5	5.44	2.80	0.76	27.5	0.25	7.14
40446617		2.08	643	56.3	142	3.19	2.62	1.28	1.11	19.6	3.29	3.34	0.49	28.2	0.19	6.38
40446618		3.82	589	51.1	174	3.63	2.87	1.61	1.14	19.6	3.28	3.42	0.56	25.6	0.24	6.42
40446619		1.57	566	56.1	185	4.22	2.97	1.59	1.24	20.0	3.53	3.49	0.56	27.7	0.22	6.21
40446620		1.98	572	54.0	196	4.63	2.97	1.45	1.27	19.6	3.43	3.41	0.56	26.7	0.25	6.30
40446621		3.44	633	70.3	148	5.65	2.70	1.42	1.08	20.9	3.93	3.81	0.53	33.8	0.21	7.76
40446622		1.32	122.5	96.7	135	9.30	3.31	1.13	0.62	30.9	6.64	8.06	0.51	44.0	0.12	22.7
40446623		0.46	75.6	19.9	921	26.0	3.84	1.88	0.51	27.3	4.19	1.36	0.69	6.2	0.21	23.9
40446624		3.15	450	44.9	160	9.74	2.50	1.25	1.06	23.2	3.13	3.30	0.49	22.6	0.22	7.45
40446625		3.66	623	60.1	185	4.43	2.82	1.49	1.18	20.2	3.54	3.66	0.50	30.0	0.23	7.76
40446626		0.56	464	65.6	935	2.96	2.90	1.64	1.46	16.8	3.95	2.70	0.59	30.5	0.27	4.11
40446627		1.87	621	59.8	121	4.67	2.93	1.64	1.30	21.8	3.96	3.67	0.54	29.6	0.20	7.59
40446628		0.72	454	121.5	865	2.29	3.39	1.59	2.14	14.4	5.74	2.24	0.65	52.5	0.20	9.37



ALS Canada Ltd.

2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

<b>CERTIFICATE OF ANALYSIS</b>	<b>TB22240973</b>
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Sample Description	Method Analyte Units LOD	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 0.5	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 0.5	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03
40446125		38.7	8.34	77.4	9.44	1.8	456	0.5	1.32	3.31	0.60	1.14	314	0.8	43.3	3.85
40446126		30.9	7.81	97.2	5.28	0.9	620	0.4	0.47	5.75	0.18	1.55	138	0.8	13.8	1.19
40446127		65.6	18.95	102.5	9.94	2.5	627	0.4	0.64	30.4	0.09	3.92	32	0.9	10.3	0.50
40446128		22.5	5.31	97.3	5.18	1.2	337	0.3	0.59	2.89	0.30	1.10	348	0.9	19.2	1.88
40446129		22.7	6.09	99.2	3.85	1.8	265	0.4	0.38	8.40	0.16	5.55	95	0.9	11.5	1.05
40446130		28.1	7.34	100.5	4.92	1.3	274	0.4	0.41	7.01	0.16	1.84	104	1.4	11.8	1.07
40446131		30.6	7.94	94.1	5.10	1.8	329	0.5	0.45	10.05	0.14	3.17	107	0.8	11.9	1.02
40446132		18.5	4.93	91.4	3.56	1.0	547	0.4	0.37	3.34	0.14	2.25	126	<0.5	10.9	0.92
40446133		30.6	8.04	96.3	5.71	1.6	638	0.5	0.58	5.63	0.18	3.16	113	0.5	15.5	1.15
40446134		63.4	16.35	49.0	12.35	2.7	1175	1.9	1.32	6.45	0.44	1.80	154	0.8	34.9	2.29
40446135		66.1	16.85	50.3	12.95	2.2	734	2.1	1.37	6.50	0.44	1.62	166	1.0	35.9	2.69
40446600		34.0	7.90	76.2	7.78	1.6	456	0.4	1.14	4.16	0.55	1.52	236	<0.5	40.2	3.32
40446601		23.6	6.36	84.0	3.95	1.1	374	0.4	0.42	7.34	0.19	2.19	121	0.7	14.6	1.43
40446602		33.4	8.83	103.0	5.65	1.5	440	0.5	0.50	8.05	0.21	2.26	130	0.7	15.7	1.32
40446603		25.9	7.24	84.9	4.94	1.2	367	0.5	0.49	8.59	0.24	2.44	133	0.8	14.8	1.40
40446604		32.9	8.71	108.5	5.49	1.2	500	0.5	0.51	10.25	0.21	2.36	136	0.9	15.7	1.32
40446605		34.0	9.12	98.8	5.34	1.2	498	0.4	0.53	8.21	0.20	2.13	130	0.9	15.6	1.34
40446606		34.9	9.24	80.4	6.38	1.0	702	0.3	0.50	5.54	0.23	1.40	152	0.5	16.8	1.46
40446607		22.6	5.77	69.3	4.90	1.1	618	0.3	0.50	3.69	0.28	0.97	176	0.6	17.7	1.57
40446608		27.4	7.01	57.6	4.98	1.1	596	0.3	0.54	4.94	0.25	1.17	181	0.6	17.5	1.55
40446609		35.7	9.49	138.5	6.51	3.1	744	0.5	0.52	4.69	0.17	2.81	135	1.7	14.8	1.06
40446610		14.9	3.43	35.3	3.09	2.0	405	0.4	0.56	1.24	0.28	0.34	174	<0.5	18.8	1.67
40446611		29.0	7.61	144.0	6.41	4.0	578	0.6	0.54	5.79	0.19	2.92	126	0.8	14.9	1.17
40446612		14.2	3.72	93.6	2.94	2.1	440	0.7	0.28	6.31	0.06	5.72	35	<0.5	6.6	0.43
40446613		32.5	7.86	71.3	6.45	1.1	702	0.3	0.57	2.95	0.19	1.18	179	0.5	15.7	1.29
40446614		37.0	8.37	60.8	8.55	1.4	583	0.3	0.75	2.29	0.26	0.90	320	18.9	22.6	1.61
40446615		31.9	6.94	93.3	7.01	2.6	549	0.4	0.74	1.95	0.26	1.58	257	0.9	20.9	1.51
40446616		34.7	8.72	97.6	6.89	3.6	582	0.6	0.71	4.11	0.28	1.68	221	0.5	21.9	1.70
40446617		23.1	6.38	82.4	4.08	1.2	469	0.7	0.41	8.47	0.19	5.86	105	0.7	12.8	1.29
40446618		22.0	5.78	83.5	4.03	1.2	424	0.5	0.48	7.16	0.24	1.99	150	0.8	15.2	1.53
40446619		25.3	6.52	72.2	4.24	0.9	468	0.4	0.50	7.32	0.21	1.82	154	0.7	15.4	1.59
40446620		24.1	6.11	76.6	4.21	1.0	432	0.4	0.46	7.44	0.24	1.90	156	0.7	14.6	1.49
40446621		29.1	7.77	107.0	5.58	1.9	411	0.6	0.53	11.75	0.19	2.54	118	1.0	14.2	1.29
40446622		41.0	11.10	163.5	8.51	6.7	276	1.3	0.76	35.8	0.14	5.90	44	0.7	13.1	0.73
40446623		14.4	3.11	396	4.35	20.8	12.8	2.8	0.70	1.84	0.26	3.58	172	0.8	20.7	1.63
40446624		19.8	5.21	143.0	3.66	2.0	395	0.6	0.46	7.53	0.19	4.20	133	1.0	13.6	1.28
40446625		26.2	6.84	77.4	4.85	1.1	428	0.5	0.50	8.22	0.23	2.17	142	0.8	14.6	1.35
40446626		31.0	7.66	66.9	5.07	1.3	398	0.2	0.52	4.43	0.23	1.08	234	0.8	16.0	1.47
40446627		24.2	6.60	81.3	4.68	1.0	526	0.7	0.53	11.05	0.22	3.10	122	0.8	15.8	1.38
40446628		59.5	15.25	54.3	9.26	0.8	570	0.3	0.68	6.60	0.23	0.94	184	<0.5	16.4	1.47

\*\*\*\*\* 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  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L
		Total %	Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	S %	Au ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446125		98.54	<0.5	<5	<0.5	34	41	10	1	54	8	23	<10	122	0.18	<1
40446126		99.90	<0.5	<5	<0.5	27	70	40	1	109	11	16	<10	89	0.75	<1
40446127		98.12	<0.5	<5	<0.5	5	47	30	1	16	33	4	<10	60	0.34	2
40446128		98.43	<0.5	<5	<0.5	45	78	60	1	34	9	29	<10	119	0.42	<1
40446129		99.58	<0.5	<5	<0.5	20	110	40	2	84	10	11	<10	74	0.07	<1
40446130		99.39	<0.5	<5	<0.5	24	52	50	1	84	8	12	<10	88	0.12	<1
40446131		98.89	<0.5	<5	<0.5	19	44	50	2	68	12	12	<10	82	0.24	<1
40446132		99.04	<0.5	<5	<0.5	30	29	50	1	162	12	17	<10	75	0.18	<1
40446133		98.80	<0.5	<5	<0.5	20	37	40	1	41	16	13	<10	85	0.11	<1
40446134		100.51	<0.5	<5	<0.5	28	14	40	2	5	10	13	<10	115	0.19	<1
40446135		100.37	<0.5	<5	<0.5	29	20	40	1	4	7	13	<10	116	0.13	<1
40446600		98.51	<0.5	<5	<0.5	38	41	10	1	63	11	20	<10	122	0.13	<1
40446601		98.09	<0.5	<5	<0.5	22	48	70	2	67	15	15	<10	85	0.18	<1
40446602		98.47	<0.5	<5	<0.5	25	55	70	1	84	23	16	<10	97	0.27	<1
40446603		100.67	<0.5	<5	<0.5	22	57	70	3	68	34	15	<10	75	0.25	<1
40446604		100.32	<0.5	<5	<0.5	24	56	60	3	77	17	15	<10	85	0.27	<1
40446605		98.38	<0.5	<5	<0.5	25	56	60	1	90	16	15	<10	93	0.26	<1
40446606		99.31	<0.5	<5	<0.5	26	57	40	1	63	81	16	<10	165	0.93	<1
40446607		100.97	<0.5	<5	<0.5	30	61	40	1	62	31	18	<10	130	1.22	<1
40446608		99.02	<0.5	<5	<0.5	27	69	30	1	30	12	20	<10	97	1.51	<1
40446609		98.44	<0.5	<5	<0.5	27	33	50	1	94	11	13	<10	110	0.19	<1
40446610		99.72	0.7	5	0.5	64	1135	40	3	703	6	11	<10	110	0.35	20
40446611		100.91	<0.5	<5	<0.5	23	20	60	1	47	12	13	<10	107	0.08	1
40446612		101.47	<0.5	<5	<0.5	7	10	30	1	14	28	5	<10	46	0.05	<1
40446613		98.49	<0.5	<5	<0.5	33	64	40	<1	31	9	16	<10	110	0.24	1
40446614		99.03	<0.5	<5	<0.5	44	54	40	<1	15	8	27	<10	140	0.35	<1
40446615		100.20	<0.5	<5	<0.5	33	80	40	<1	7	10	20	<10	141	0.40	<1
40446616		99.20	0.5	<5	<0.5	44	273	50	1	32	9	24	<10	118	1.30	1
40446617		98.92	<0.5	<5	<0.5	19	41	50	1	57	14	11	<10	77	0.22	<1
40446618		100.56	<0.5	<5	<0.5	25	58	50	2	72	11	16	<10	92	0.32	<1
40446619		99.66	<0.5	<5	<0.5	25	60	50	2	76	13	16	<10	89	0.38	<1
40446620		101.89	<0.5	<5	<0.5	27	65	50	2	81	12	16	<10	92	0.42	<1
40446621		101.88	<0.5	<5	<0.5	20	64	50	1	63	19	14	<10	88	0.26	<1
40446622		100.27	<0.5	<5	<0.5	11	15	60	1	38	26	14	<10	117	0.05	<1
40446623		101.97	<0.5	<5	0.6	57	3	130	<1	261	5	36	<10	318	0.02	<1
40446624		100.84	<0.5	<5	<0.5	24	45	60	3	83	18	16	<10	87	0.16	<1
40446625		100.17	<0.5	<5	<0.5	24	67	40	3	79	14	15	<10	87	0.27	<1
40446626		99.80	<0.5	<5	<0.5	49	1	50	<1	301	6	28	<10	90	0.01	<1
40446627		100.79	<0.5	<5	<0.5	19	58	40	2	59	23	13	<10	78	0.18	<1
40446628		95.01	<0.5	<5	<0.5	42	9	40	<1	201	8	24	<10	85	0.04	<1



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
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Sample Description	Method Analyte Units LOD	PGM-MS23L Pt ppb 0.1	PGM-MS23L Pd ppb 0.2
40446125		<0.1	<0.2
40446126		1.3	0.6
40446127		<0.1	<0.2
40446128		<0.1	<0.2
40446129		1.0	0.3
40446130		1.4	2.7
40446131		0.7	<0.2
40446132		2.1	2.8
40446133		0.2	<0.2
40446134		<0.1	<0.2
40446135		<0.1	<0.2
40446600		<0.1	<0.2
40446601		0.5	<0.2
40446602		1.5	1.2
40446603		0.5	<0.2
40446604		0.4	<0.2
40446605		0.4	<0.2
40446606		<0.1	<0.2
40446607		0.5	<0.2
40446608		0.1	<0.2
40446609		0.1	<0.2
40446610		43.3	205
40446611		<0.1	<0.2
40446612		<0.1	<0.2
40446613		<0.1	0.9
40446614		<0.1	<0.2
40446615		<0.1	<0.2
40446616		0.2	<0.2
40446617		0.2	<0.2
40446618		0.7	<0.2
40446619		1.0	<0.2
40446620		1.1	0.3
40446621		0.4	<0.2
40446622		<0.1	<0.2
40446623		5.5	3.9
40446624		0.9	0.3
40446625		0.6	<0.2
40446626		4.4	4.5
40446627		0.4	<0.2
40446628		3.1	3.7



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 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Recvd Wt.	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
40446629		2.76	725	66.5	149	4.94	2.84	1.51	1.30	21.8	3.94	3.46	0.57	33.0	0.24	6.93
40446630		1.23	540	48.2	81	1.10	6.93	3.99	2.14	24.5	7.61	5.27	1.37	19.1	0.53	7.50
40446631		3.90	595	54.4	178	3.66	2.49	1.44	1.04	19.0	2.97	3.40	0.50	27.4	0.19	5.14
40446632		3.54	598	56.3	186	3.24	2.60	1.34	1.01	19.0	3.30	3.00	0.49	26.9	0.20	5.58
40446633		3.82	619	52.9	212	3.80	2.25	1.18	1.01	20.0	2.99	2.96	0.41	25.6	0.18	5.53
40446634		3.56	569	49.5	160	3.74	2.60	1.28	1.05	19.4	3.19	3.36	0.44	24.1	0.14	5.47
40446635		3.85	562	51.9	153	4.34	2.48	1.41	0.87	19.1	3.05	3.60	0.47	25.3	0.16	6.65
40446636		3.65	536	56.8	129	3.97	2.36	1.15	0.94	20.1	3.24	3.95	0.40	27.6	0.16	8.86
40446637		3.33	638	56.6	176	3.52	2.66	1.46	1.08	19.1	3.24	3.14	0.46	27.9	0.20	5.36
40446638		3.66	473	57.7	139	3.75	2.38	1.29	1.01	20.0	3.35	3.19	0.43	29.3	0.15	6.71
40446639		3.92	642	54.3	162	3.79	2.29	1.28	1.02	19.2	2.94	3.25	0.39	27.5	0.19	5.87
40446640		0.17	326	24.7	2660	2.25	3.84	1.99	1.14	20.2	3.59	2.74	0.62	11.4	0.31	7.01
40446641		2.44	504	56.3	167	4.98	2.38	1.24	0.86	19.2	3.07	3.47	0.45	27.5	0.17	6.73
40446642		3.46	598	21.4	17	1.25	0.53	0.22	0.38	13.9	1.30	1.28	0.09	10.2	0.02	3.25
40446643		3.57	590	49.1	131	4.04	2.55	1.35	0.93	19.1	3.06	2.94	0.46	24.3	0.19	5.55
40446644		3.59	746	69.9	148	3.07	2.50	1.30	1.10	17.2	3.13	3.21	0.40	34.3	0.16	6.01
40446645		3.72	600	63.0	142	4.64	2.24	1.08	1.01	19.8	3.11	3.54	0.42	32.4	0.17	6.65
40446646		3.78	646	52.0	201	4.49	2.55	1.20	0.92	20.2	3.04	3.86	0.42	25.5	0.17	6.83
40446647		3.79	589	59.3	132	5.22	2.26	1.31	0.98	19.4	3.25	3.78	0.44	29.6	0.17	7.25
40446648		3.24	563	43.7	202	2.98	2.21	1.22	0.93	17.8	2.81	2.88	0.38	20.6	0.14	6.65
40446649		1.55	598	63.5	170	4.31	2.66	1.30	0.98	21.6	3.35	3.82	0.52	31.0	0.21	9.12
40446650		1.85	604	74.5	176	4.63	2.91	1.40	1.08	21.6	3.86	3.97	0.54	36.3	0.20	9.06
40446651		4.32	658	61.5	146	4.10	2.88	1.49	0.98	20.3	3.61	3.77	0.48	30.5	0.18	8.58
40446652		3.92	639	65.3	135	3.02	2.72	1.52	1.24	19.8	3.35	3.37	0.40	31.0	0.16	6.60
40446653		3.72	627	59.4	135	3.47	2.52	1.30	1.09	19.6	3.22	3.24	0.45	29.6	0.18	6.18
40446654		1.08	553	75.6	52	1.49	9.96	5.21	1.98	25.3	9.49	5.76	1.74	30.6	0.71	11.45
40446655		3.34	322	49.1	1375	1.00	2.50	1.32	1.44	11.6	4.16	1.82	0.39	18.4	0.13	3.14
40446656		4.03	330	51.6	1410	2.14	2.66	1.10	1.61	12.6	4.35	1.84	0.45	19.2	0.15	4.04
40446657		4.12	212	41.5	1240	1.62	2.70	1.44	1.44	13.4	4.14	1.59	0.47	16.1	0.16	5.08
40446658		1.08	1200	178.0	301	3.45	4.84	1.89	2.89	18.8	8.18	3.45	0.69	81.3	0.16	7.66
40446659		3.91	188.5	42.7	1500	0.85	2.47	1.18	1.44	10.6	4.59	1.28	0.41	17.0	0.10	2.53
40446660		1.32	694	62.8	62	1.19	7.87	4.59	2.03	24.8	8.31	6.52	1.49	26.3	0.53	10.25
40446661		1.46	1450	44.9	226	5.96	5.86	2.55	0.57	32.4	7.59	0.53	0.92	17.6	0.19	15.10
40446662		4.15	117.0	33.4	1660	0.37	2.25	0.96	1.28	10.6	3.95	1.33	0.36	11.0	0.11	2.52
40446663		1.72	636	60.3	424	3.04	12.85	4.87	0.95	27.0	15.60	1.39	2.05	20.1	0.32	10.55
40446664		2.68	164.5	49.2	1740	0.15	2.54	1.10	1.35	9.4	4.28	1.37	0.37	18.1	0.13	1.90
40446665		2.62	200.0	54.6	1805	0.15	2.42	1.11	1.68	9.4	4.60	1.57	0.43	21.5	0.10	2.57
40446666		3.57	387	40.7	292	10.15	12.65	5.16	0.68	33.1	12.60	1.38	2.26	14.9	0.36	21.0
40446667		0.86	174.5	42.4	1550	3.79	2.41	1.00	1.29	11.4	3.94	1.24	0.43	14.8	0.14	2.39
40446668		3.62	734	62.9	85	2.50	1.31	0.37	0.60	15.3	3.06	2.97	0.20	29.8	0.03	2.58

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - B  
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 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
	Units LOD	ppm 0.1	ppm 0.02	ppm 0.2	ppm 0.03	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.05	ppm 5	ppm 0.5	ppm 0.1	ppm 0.03
40446629		29.1	7.68	89.8	4.80	1.2	641	0.4	0.49	8.07	0.20	1.99	146	0.9	15.0	1.47
40446630		31.6	6.96	57.3	7.14	1.6	493	0.4	1.17	1.53	0.55	0.99	242	<0.5	37.7	3.37
40446631		25.5	6.02	71.1	4.58	0.7	414	0.4	0.41	7.85	0.18	2.16	117	0.5	13.8	1.21
40446632		26.6	6.59	73.3	4.58	1.0	380	0.4	0.42	6.59	0.20	1.94	123	0.7	13.7	1.37
40446633		25.2	6.32	89.1	4.48	1.4	401	0.4	0.43	6.08	0.17	2.37	111	0.7	11.6	1.14
40446634		22.7	5.55	74.5	3.92	1.1	386	0.4	0.46	5.85	0.18	1.93	133	0.7	13.8	1.26
40446635		24.3	6.03	111.5	4.03	1.7	307	0.5	0.42	7.82	0.17	4.06	112	0.8	12.6	1.19
40446636		25.9	6.58	104.0	4.25	1.6	306	0.7	0.40	10.70	0.15	6.51	96	0.7	11.4	1.04
40446637		26.0	6.50	75.4	4.33	0.9	457	0.4	0.41	6.80	0.18	3.19	127	0.9	13.7	1.27
40446638		26.1	6.48	106.0	4.87	1.5	476	0.4	0.37	8.83	0.17	3.29	98	1.1	12.9	1.10
40446639		25.3	6.20	89.3	4.25	1.5	384	0.4	0.40	7.06	0.15	2.44	105	0.8	12.3	1.20
40446640		16.2	3.37	34.7	3.86	1.4	375	0.4	0.57	1.17	0.26	0.32	180	<0.5	19.2	1.84
40446641		26.9	6.52	107.0	4.06	1.8	335	0.6	0.42	9.26	0.15	3.06	103	0.8	12.9	1.03
40446642		9.8	2.38	126.0	1.76	0.9	202	0.2	0.13	9.36	0.01	35.8	5	<0.5	2.8	0.16
40446643		22.8	5.48	66.4	3.73	0.8	320	0.4	0.39	6.79	0.19	2.30	109	1.3	14.0	1.35
40446644		30.1	7.89	63.1	4.73	1.0	495	0.5	0.41	7.67	0.17	2.42	99	0.6	12.6	1.22
40446645		26.3	7.16	95.0	3.96	1.7	383	0.5	0.38	8.47	0.18	2.49	93	0.7	12.0	1.00
40446646		23.9	5.70	101.0	4.02	1.0	422	0.5	0.39	8.12	0.17	6.51	105	0.5	12.1	1.24
40446647		26.4	6.86	94.4	4.43	1.0	370	0.5	0.42	8.45	0.14	6.41	94	2.9	12.7	1.07
40446648		21.1	5.26	86.5	4.07	1.3	340	0.4	0.42	6.34	0.14	2.02	105	0.5	12.1	1.11
40446649		29.3	7.33	92.9	4.83	1.6	436	0.6	0.45	9.09	0.18	12.25	116	0.8	14.2	1.17
40446650		33.2	8.50	102.5	5.25	1.4	429	0.6	0.51	11.55	0.19	17.25	127	0.8	15.9	1.33
40446651		28.2	6.92	92.0	4.43	1.2	403	0.5	0.45	8.66	0.20	3.01	113	0.8	14.6	1.29
40446652		30.6	7.41	76.9	4.53	0.9	579	0.4	0.39	7.81	0.15	1.95	109	<0.5	13.3	1.14
40446653		27.8	6.51	82.6	4.65	1.2	462	0.4	0.37	8.10	0.18	2.45	107	1.5	13.4	1.15
40446654		49.3	10.30	85.0	10.60	1.9	499	0.7	1.45	5.25	0.71	1.54	211	<0.5	52.1	4.18
40446655		33.5	7.07	26.2	6.08	0.8	430	0.2	0.43	1.32	0.13	0.98	113	0.7	11.4	0.88
40446656		36.4	7.45	43.3	6.91	2.9	347	0.3	0.51	1.95	0.13	0.83	136	0.6	12.2	1.00
40446657		29.6	6.16	37.5	5.59	5.3	262	0.8	0.48	2.55	0.15	1.98	121	0.5	13.8	1.08
40446658		93.7	21.9	97.2	14.35	2.1	1120	0.7	0.94	9.39	0.21	3.21	147	1.1	21.1	1.43
40446659		30.9	6.46	19.2	5.65	1.5	284	0.1	0.46	1.52	0.12	1.01	138	0.6	11.8	0.73
40446660		41.5	8.84	82.6	8.29	1.7	496	0.5	1.14	2.76	0.54	1.32	212	<0.5	42.8	3.44
40446661		26.6	5.92	121.5	7.42	9.6	488	1.2	1.04	9.98	0.27	5.02	37	0.8	29.6	1.66
40446662		29.0	5.39	12.6	6.27	2.0	295	0.1	0.44	0.78	0.11	0.33	135	0.7	11.4	0.81
40446663		44.5	8.94	76.6	14.70	8.6	417	0.7	2.43	2.63	0.49	5.13	55	0.6	60.9	2.60
40446664		33.1	7.04	8.9	6.46	1.0	349	0.1	0.47	1.60	0.13	0.62	136	<0.5	11.2	0.76
40446665		34.7	8.23	9.2	6.21	0.7	431	0.1	0.56	2.22	0.14	0.85	135	0.6	12.3	0.84
40446666		27.2	6.29	157.5	10.70	12.2	422	1.4	2.30	4.18	0.59	5.47	35	0.6	63.7	2.89
40446667		29.1	6.57	65.4	5.78	4.6	109.5	0.2	0.47	1.62	0.15	0.71	125	0.6	11.8	0.80
40446668		26.9	7.75	121.5	5.01	1.1	386	0.2	0.34	17.80	0.04	2.93	18	<0.5	5.1	0.27





ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
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Page: 3 - D  
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**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L	
		Total %	Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	S %	Au ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446629		100.12	<0.5	<5	<0.5	24	58	40	1	67	16	15	<10	91	0.23	<1
40446630		100.70	<0.5	<5	<0.5	38	43	10	1	67	9	22	<10	122	0.14	<1
40446631		99.62	<0.5	<5	<0.5	23	55	40	2	71	14	15	<10	83	0.23	<1
40446632		99.68	<0.5	<5	<0.5	24	54	40	2	80	13	15	<10	91	0.32	<1
40446633		99.89	<0.5	<5	<0.5	23	50	50	3	79	17	14	<10	83	0.21	<1
40446634		100.47	<0.5	<5	<0.5	26	56	50	1	71	13	17	<10	93	0.31	<1
40446635		99.69	<0.5	<5	<0.5	22	49	50	3	67	21	14	<10	91	0.24	<1
40446636		98.88	<0.5	<5	<0.5	17	39	40	2	52	23	12	<10	86	0.16	<1
40446637		98.50	<0.5	<5	<0.5	23	55	40	2	75	15	14	<10	86	0.32	<1
40446638		98.52	<0.5	<5	<0.5	18	45	40	2	53	15	12	<10	74	0.19	<1
40446639		93.04	<0.5	<5	<0.5	20	44	50	2	61	15	13	<10	86	0.18	<1
40446640		98.00	0.5	6	<0.5	64	1095	40	3	681	6	17	<10	110	0.35	22
40446641		99.63	<0.5	<5	<0.5	19	46	50	3	63	16	13	<10	87	0.19	<1
40446642		99.53	<0.5	<5	<0.5	1	2	10	1	5	70	1	<10	14	0.01	<1
40446643		101.57	<0.5	<5	<0.5	20	45	50	2	63	15	13	<10	83	0.19	<1
40446644		101.95	<0.5	<5	<0.5	19	50	30	1	66	16	11	<10	78	0.27	<1
40446645		98.29	<0.5	<5	<0.5	17	46	40	1	59	16	11	<10	81	0.21	<1
40446646		98.39	<0.5	<5	<0.5	19	40	40	2	64	19	12	<10	75	0.15	1
40446647		99.06	<0.5	<5	<0.5	17	44	40	1	58	22	12	<10	76	0.22	<1
40446648		100.08	<0.5	<5	<0.5	23	55	50	1	109	20	14	<10	106	0.26	<1
40446649		100.16	<0.5	<5	<0.5	20	48	60	3	68	21	14	<10	93	0.21	<1
40446650		100.49	<0.5	<5	<0.5	22	48	60	2	70	23	15	<10	94	0.21	<1
40446651		100.67	<0.5	<5	<0.5	19	46	50	2	59	16	13	<10	83	0.20	<1
40446652		98.49	<0.5	<5	<0.5	20	63	40	2	62	14	13	<10	84	0.26	<1
40446653		98.26	<0.5	<5	<0.5	18	49	50	2	55	15	12	<10	80	0.26	1
40446654		98.71	<0.5	<5	<0.5	29	38	20	1	39	11	23	<10	123	0.16	<1
40446655		99.04	<0.5	<5	<0.5	61	122	30	<1	424	2	25	<10	77	0.07	<1
40446656		100.00	<0.5	<5	<0.5	59	189	30	<1	420	3	26	<10	96	0.18	1
40446657		98.41	<0.5	<5	<0.5	58	22	20	<1	455	4	27	<10	111	0.02	<1
40446658		98.27	<0.5	<5	<0.5	36	215	30	1	205	14	18	<10	100	0.43	<1
40446659		99.26	<0.5	<5	<0.5	65	167	30	<1	466	3	27	<10	86	0.22	1
40446660		99.52	<0.5	<5	<0.5	30	35	20	1	45	10	22	<10	119	0.14	<1
40446661		100.63	<0.5	<5	<0.5	13	330	40	<1	88	24	10	<10	95	0.26	<1
40446662		98.75	<0.5	<5	<0.5	67	147	30	<1	513	4	28	<10	94	0.19	<1
40446663		95.73	<0.5	<5	<0.5	20	116	40	1	153	21	13	<10	137	0.31	5
40446664		99.50	<0.5	<5	<0.5	65	126	20	1	475	4	29	<10	88	0.17	<1
40446665		98.76	<0.5	<5	<0.5	65	119	20	1	455	3	30	<10	84	0.16	<1
40446666		99.11	<0.5	<5	<0.5	14	51	40	1	80	18	14	<10	151	0.15	<1
40446667		99.83	<0.5	<5	<0.5	63	68	30	<1	467	4	29	<10	123	0.06	<1
40446668		100.70	<0.5	<5	<0.5	5	38	10	1	25	40	3	<10	25	0.07	<1

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 3 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
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Sample Description	Method Analyte Units LOD	PGM-MS23L Pt ppb 0.1	PGM-MS23L Pd ppb 0.2
40446629		0.4	<0.2
40446630		<0.1	<0.2
40446631		0.6	<0.2
40446632		0.7	<0.2
40446633		1.0	0.2
40446634		0.9	0.2
40446635		0.6	<0.2
40446636		0.3	<0.2
40446637		0.8	<0.2
40446638		0.5	<0.2
40446639		0.8	<0.2
40446640		42.2	225
40446641		0.4	<0.2
40446642		<0.1	<0.2
40446643		1.1	2.0
40446644		0.2	<0.2
40446645		0.3	<0.2
40446646		0.5	<0.2
40446647		0.1	<0.2
40446648		0.5	<0.2
40446649		0.5	<0.2
40446650		0.6	<0.2
40446651		0.4	<0.2
40446652		0.4	0.4
40446653		0.3	<0.2
40446654		<0.1	<0.2
40446655		0.4	0.3
40446656		0.7	0.4
40446657		0.6	0.4
40446658		0.3	0.2
40446659		0.5	0.2
40446660		<0.1	<0.2
40446661		<0.1	<0.2
40446662		0.7	<0.2
40446663		<0.1	<0.2
40446664		0.2	<0.2
40446665		0.5	<0.2
40446666		<0.1	<0.2
40446667		0.4	<0.2
40446668		<0.1	<0.2





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North Vancouver BC V7H 0A7  
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Page: 4 - A  
Total # Pages: 6 (A - E)  
Plus Appendix Pages  
Finalized Date: 14-OCT-2022  
Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Recvd Wt. kg	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Nb ppm
40446669		3.49	679	64.4	15	1.86	1.31	0.36	0.45	13.8	3.43	1.25	0.17	30.1	0.02	2.44
40446670		0.11	99.8	10.0	2080	0.86	1.30	0.78	0.39	7.1	1.24	0.90	0.26	5.0	0.09	2.28
40446671		1.92	190.5	51.2	1900	1.80	2.46	0.99	1.43	9.3	4.47	1.47	0.43	19.8	0.11	2.35
40446672		2.93	757	108.0	45	3.32	1.97	0.53	0.56	16.2	5.16	14.45	0.27	50.9	0.08	3.96
40446673		3.67	145.0	48.3	1875	0.42	2.46	1.08	1.47	9.0	4.18	1.46	0.44	19.7	0.13	2.14
40446674		4.25	227	49.4	1910	0.51	2.53	1.04	1.49	8.4	4.07	1.58	0.41	20.5	0.13	2.00
40446675		4.31	229	47.9	1930	0.48	2.32	1.02	1.39	8.6	4.25	1.49	0.46	19.7	0.10	2.00
40446676		4.45	205	47.6	1970	0.31	2.46	0.99	1.45	8.4	3.92	1.52	0.42	19.4	0.10	1.99
40446677		1.89	548	76.2	177	8.58	1.91	0.59	0.46	22.3	4.02	2.40	0.26	36.6	0.05	11.75
40446678		2.58	173.5	52.7	1795	0.42	2.38	0.97	1.57	9.8	4.40	1.51	0.45	22.5	0.11	2.66
40446679		1.29	324	51.3	24	2.99	3.57	1.88	0.29	14.2	3.91	5.44	0.71	23.6	0.23	1.81
40446680		1.40	345	53.6	23	3.85	3.19	1.52	0.32	14.6	3.94	5.75	0.60	24.8	0.18	2.34
40446681		2.13	558	105.0	61	2.97	2.30	0.79	0.56	18.1	5.54	11.65	0.31	48.7	0.09	3.49
40446682		1.87	172.0	40.9	1520	8.41	4.10	2.00	1.17	18.0	5.41	1.78	0.77	16.2	0.22	9.52
40446683		1.11	172.5	329	111	7.05	8.17	2.23	1.08	28.5	18.25	12.35	1.08	143.0	0.23	11.95
40446684		2.34	187.0	54.7	1925	0.51	2.67	1.15	1.65	9.8	4.23	1.55	0.47	22.6	0.14	2.46
40446685		2.56	167.0	52.2	1785	0.58	2.47	1.05	1.45	9.1	4.08	1.61	0.40	22.1	0.11	2.25
40446686		1.40	259	31.1	158	7.95	1.71	0.64	0.43	22.6	2.77	0.67	0.28	14.7	0.05	11.95
40446687		0.82	136.0	38.6	1835	7.71	2.69	1.20	1.36	11.1	3.93	1.43	0.46	14.0	0.14	4.35
40446688		2.00	467	87.2	149	10.35	8.76	3.51	0.61	28.5	10.30	7.81	1.46	38.0	0.28	17.05
40446689		1.95	206	40.2	1535	5.09	2.33	1.08	1.16	10.1	3.45	1.58	0.43	16.5	0.13	3.34
40446690		1.52	519	62.6	80	1.74	8.64	4.72	2.20	24.1	9.07	6.70	1.72	26.4	0.64	11.80
40446691		1.75	211	140.0	375	3.44	5.66	1.97	0.78	25.7	8.83	1.51	0.82	67.2	0.13	18.10
40446692		1.63	208	36.8	1390	11.95	2.72	1.20	0.98	12.7	3.66	1.50	0.49	14.9	0.14	6.88
40446693		2.30	180.0	46.0	1625	11.35	2.76	1.07	1.20	14.4	4.58	1.56	0.48	18.7	0.13	9.11
40446694		3.42	211	49.5	1215	4.49	2.46	1.08	1.03	13.8	4.05	2.18	0.38	20.4	0.12	6.41
40446695		3.94	212	42.5	1695	4.04	2.42	1.12	1.33	9.8	3.84	1.49	0.47	16.5	0.12	5.11
40446696		1.32	274	229	104	4.26	4.84	1.36	0.90	26.5	11.35	17.50	0.62	107.0	0.19	8.55
40446697		3.94	145.0	45.0	1975	0.45	2.35	0.99	1.40	8.6	3.76	1.42	0.41	18.7	0.13	2.10
40446698		3.04	114.5	46.6	1935	0.24	2.25	0.97	1.34	8.3	3.63	1.48	0.39	19.6	0.11	2.22
40446699		2.98	138.0	37.9	1910	1.84	2.46	0.96	1.28	8.8	3.74	1.41	0.37	16.9	0.10	2.19
40446700		0.11	95.6	9.6	2150	0.78	1.27	0.65	0.41	7.8	1.40	0.82	0.27	4.9	0.09	2.36
40446701		1.57	126.0	56.8	125	3.48	1.52	0.61	0.52	23.1	3.69	14.60	0.25	28.5	0.10	5.38
40446702		1.64	154.0	45.7	1845	0.79	2.40	1.01	1.53	9.6	4.14	1.63	0.41	19.4	0.12	2.11
40446703		3.39	307	97.4	124	7.51	2.93	1.15	1.01	21.0	5.53	2.90	0.48	49.0	0.09	9.26
40446704		1.07	872	34.1	18	2.43	0.92	0.27	0.51	14.6	1.94	4.16	0.12	17.5	0.05	2.08
40446705		1.13	248	44.6	100	4.99	1.47	0.51	0.49	25.8	2.84	9.69	0.27	23.1	0.09	10.70
40446706		2.89	245	45.8	1440	1.06	2.74	1.23	1.54	12.0	4.94	1.72	0.42	18.9	0.13	3.27
40446707		3.03	201	42.5	1470	0.67	2.26	1.01	1.43	11.0	4.38	2.02	0.39	18.6	0.12	3.12
40446708		3.52	360	107.0	57	2.95	2.33	0.70	0.52	17.0	6.29	14.40	0.31	53.6	0.10	4.90

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ALS Canada Ltd.

2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 4 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD		ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5	0.5	0.1	0.03	
40446669	26.6	7.88	130.0	5.65	1.1	296	0.1	0.36	23.8	0.03	1.98	5	<0.5	5.1	0.20	
40446670	5.6	1.29	6.4	1.32	1.3	113.0	0.1	0.20	0.85	0.09	0.19	114	<0.5	6.9	0.53	
40446671	32.3	7.58	25.9	6.24	1.8	399	0.1	0.48	1.74	0.14	0.57	131	<0.5	12.4	0.74	
40446672	43.8	13.20	145.5	8.80	2.3	308	0.2	0.55	35.8	0.07	5.09	9	0.5	7.0	0.44	
40446673	31.0	7.19	11.2	5.80	1.0	450	0.1	0.50	1.70	0.15	0.55	135	0.6	11.3	0.78	
40446674	30.2	7.34	10.4	5.96	<0.5	529	0.1	0.48	1.81	0.15	0.45	132	<0.5	11.5	0.79	
40446675	30.5	7.22	9.1	5.31	0.5	496	0.1	0.49	1.77	0.14	0.46	127	<0.5	11.5	0.85	
40446676	29.4	7.04	7.2	5.72	<0.5	504	0.1	0.48	1.88	0.13	0.44	126	0.5	11.2	0.68	
40446677	30.9	9.38	171.5	6.38	7.8	316	1.1	0.44	27.6	0.06	5.47	23	0.6	7.9	0.35	
40446678	31.4	7.82	14.8	5.96	1.8	337	0.2	0.50	2.03	0.13	1.04	125	<0.5	11.9	0.82	
40446679	20.9	6.44	165.0	5.14	2.3	161.0	0.2	0.65	19.55	0.24	13.05	<5	0.6	20.9	1.50	
40446680	22.4	6.47	193.0	4.79	1.9	163.0	0.5	0.60	20.6	0.22	12.95	7	0.5	18.2	1.22	
40446681	43.2	12.85	126.0	8.73	2.4	303	0.3	0.60	36.8	0.10	5.80	14	<0.5	9.2	0.65	
40446682	27.0	6.16	130.0	6.34	12.0	110.5	1.4	0.78	3.52	0.30	4.06	108	0.6	24.0	1.73	
40446683	130.0	38.2	105.5	27.2	6.0	370	1.1	2.08	110.5	0.25	12.20	18	0.7	31.8	1.36	
40446684	34.7	7.98	13.1	6.47	0.6	549	0.1	0.53	2.06	0.15	0.76	135	<0.5	12.6	0.90	
40446685	31.3	7.46	14.0	6.00	0.8	442	0.1	0.47	2.08	0.13	0.82	131	0.5	11.8	0.77	
40446686	13.3	3.97	126.5	3.33	6.2	353	1.2	0.39	9.47	0.07	5.84	20	0.6	8.0	0.31	
40446687	27.0	6.19	88.9	5.65	4.7	183.0	0.4	0.53	2.17	0.13	1.44	126	0.7	13.3	1.01	
40446688	41.6	11.45	183.0	11.35	8.6	380	1.3	1.63	24.2	0.41	7.06	24	0.6	44.0	2.18	
40446689	25.1	5.87	58.7	4.52	2.9	339	0.4	0.46	2.67	0.13	3.13	102	<0.5	12.5	0.84	
40446690	41.2	9.35	70.8	9.80	1.6	492	1.0	1.46	4.76	0.69	1.93	243	2.6	48.4	4.12	
40446691	58.6	17.30	57.3	11.95	9.1	231	1.6	1.21	40.0	0.22	7.25	42	1.0	25.4	0.98	
40446692	23.1	5.49	81.2	4.93	4.8	212	0.7	0.53	3.07	0.15	5.87	104	0.6	13.9	0.93	
40446693	28.2	6.93	110.5	5.98	5.1	205	0.7	0.57	4.79	0.15	1.28	119	0.5	13.1	0.95	
40446694	27.8	6.94	67.5	5.65	3.7	256	0.6	0.48	8.52	0.13	2.80	96	<0.5	11.7	0.85	
40446695	27.9	6.29	45.5	5.18	1.3	295	0.2	0.49	1.87	0.13	1.58	118	<0.5	11.8	0.80	
40446696	92.7	27.9	97.0	19.50	3.9	519	0.7	1.29	82.2	0.18	12.50	14	<0.5	18.4	1.05	
40446697	28.9	6.64	9.9	5.30	<0.5	424	0.1	0.47	1.68	0.15	0.51	135	0.6	11.7	0.78	
40446698	28.4	6.74	11.6	5.36	0.5	421	0.1	0.46	1.88	0.12	0.66	127	1.9	11.5	0.73	
40446699	24.9	5.47	23.1	4.91	1.8	271	0.2	0.42	1.76	0.13	0.56	119	<0.5	10.2	0.82	
40446700	6.1	1.39	6.2	1.36	1.2	105.5	0.1	0.22	0.98	0.09	0.54	113	<0.5	6.9	0.72	
40446701	27.2	6.89	67.5	5.55	3.3	418	0.5	0.42	20.8	0.10	6.95	17	<0.5	7.3	0.56	
40446702	29.4	6.80	16.2	6.46	1.4	278	0.1	0.45	2.08	0.12	0.65	130	0.5	11.8	0.85	
40446703	46.5	12.30	162.0	9.15	5.5	478	1.1	0.65	18.15	0.12	5.32	63	3.5	14.6	0.94	
40446704	14.8	4.27	191.0	3.11	0.9	290	0.3	0.24	13.65	0.05	3.31	<5	<0.5	3.9	0.24	
40446705	21.0	5.43	110.0	4.11	6.6	363	1.0	0.31	16.45	0.08	7.53	18	0.6	6.9	0.57	
40446706	31.0	6.89	29.8	6.78	1.5	310	0.3	0.59	2.42	0.15	1.01	152	0.5	13.4	0.95	
40446707	29.3	6.58	24.7	6.08	0.7	273	0.2	0.48	2.13	0.11	0.83	141	0.6	10.4	0.71	
40446708	50.1	13.35	100.5	10.10	3.3	262	0.4	0.63	40.6	0.09	8.46	13	<0.5	9.4	0.66	

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ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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Page: 4 - C  
Total # Pages: 6 (A - E)  
Plus Appendix Pages  
Finalized Date: 14-OCT-2022  
Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
		Zr ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %
		1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40446669		40	75.8	13.55	1.04	0.84	0.31	3.14	5.77	0.002	0.05	0.01	0.07	0.04	0.08	0.52
40446670		33	36.6	5.85	16.45	3.94	24.3	0.67	0.23	0.272	0.43	0.15	0.05	0.01	0.01	9.10
40446671		59	49.6	6.61	9.69	12.10	16.90	0.71	0.72	0.245	0.50	0.16	0.19	0.05	0.02	2.53
40446672		455	73.6	14.20	1.77	1.04	0.61	3.26	5.90	0.006	0.11	0.02	0.03	0.03	0.08	0.87
40446673		53	48.4	6.52	9.74	13.05	17.65	0.93	0.54	0.243	0.46	0.15	0.19	0.05	0.02	2.87
40446674		57	46.1	6.10	9.24	11.65	16.15	1.04	0.52	0.236	0.44	0.14	0.16	0.05	0.02	2.07
40446675		56	48.5	6.35	9.28	12.40	17.20	1.02	0.48	0.251	0.46	0.14	0.18	0.06	0.03	2.41
40446676		59	48.4	6.27	9.20	12.45	17.20	0.96	0.45	0.250	0.45	0.14	0.16	0.06	0.02	2.31
40446677		75	69.2	15.05	3.66	1.44	1.68	3.59	5.03	0.023	0.24	0.05	0.08	0.04	0.06	1.08
40446678		57	48.7	6.81	9.84	12.40	17.05	0.79	0.62	0.236	0.47	0.16	0.18	0.04	0.02	2.48
40446679		165	75.1	13.60	1.18	0.58	0.28	3.16	6.18	0.003	0.04	0.01	0.05	0.02	0.04	0.45
40446680		184	74.9	13.90	1.22	0.45	0.20	2.89	7.06	0.003	0.04	0.01	0.05	0.02	0.04	0.80
40446681		354	73.2	14.45	2.43	1.23	0.37	3.79	4.86	0.008	0.09	0.02	0.04	0.04	0.06	0.92
40446682		59	54.3	8.14	10.95	7.78	12.80	0.91	1.96	0.194	0.46	0.22	0.18	0.01	0.02	2.54
40446683		372	65.0	18.70	3.46	2.88	1.43	6.17	2.33	0.014	0.24	0.05	0.23	0.04	0.02	1.20
40446684		62	49.6	6.76	9.37	12.30	16.90	0.73	0.56	0.244	0.50	0.15	0.20	0.06	0.02	2.68
40446685		65	49.1	6.92	9.67	12.65	17.30	0.82	0.59	0.236	0.48	0.15	0.18	0.05	0.02	2.57
40446686		18	70.9	14.75	3.66	1.94	1.67	4.35	2.76	0.021	0.25	0.05	0.12	0.04	0.03	1.25
40446687		55	50.2	6.83	9.79	10.30	16.15	0.59	1.38	0.238	0.47	0.18	0.18	0.02	0.02	2.72
40446688		249	60.6	17.80	5.04	2.25	2.39	5.03	4.35	0.019	0.39	0.08	0.65	0.05	0.05	1.30
40446689		55	54.8	7.21	7.92	9.37	13.95	1.12	1.02	0.198	0.37	0.14	0.14	0.04	0.02	2.17
40446690		281	50.5	16.55	12.00	7.53	4.74	3.34	1.50	0.010	1.86	0.16	0.56	0.06	0.06	0.42
40446691		41	61.2	15.35	6.50	2.62	4.03	4.97	1.22	0.049	0.44	0.06	0.30	0.03	0.02	3.27
40446692		53	53.9	8.06	7.94	8.80	12.05	1.14	1.20	0.184	0.40	0.13	0.18	0.02	0.02	4.62
40446693		55	52.5	8.35	9.94	9.22	14.35	1.11	1.58	0.215	0.49	0.14	0.19	0.03	0.02	1.92
40446694		76	58.4	9.11	7.58	7.75	11.75	1.90	1.45	0.160	0.36	0.13	0.13	0.03	0.02	1.92
40446695		55	50.9	7.02	8.97	11.15	16.25	0.87	0.99	0.221	0.43	0.15	0.14	0.03	0.02	2.49
40446696		548	64.3	19.95	2.45	2.64	1.38	7.23	2.10	0.013	0.18	0.03	0.08	0.06	0.03	1.31
40446697		54	49.6	6.24	9.25	12.60	17.55	0.86	0.46	0.259	0.44	0.15	0.18	0.05	0.02	2.27
40446698		58	49.9	6.24	9.25	12.10	17.45	0.80	0.46	0.247	0.42	0.15	0.16	0.05	0.01	2.20
40446699		50	49.0	6.40	9.19	11.90	17.10	0.73	0.65	0.247	0.42	0.15	0.17	0.03	0.02	2.38
40446700		37	37.3	5.62	16.65	3.78	24.4	0.66	0.23	0.269	0.43	0.15	0.05	0.01	0.01	9.03
40446701		446	68.4	17.25	2.61	2.81	1.27	5.95	1.43	0.017	0.15	0.03	0.07	0.05	0.02	0.74
40446702		56	48.4	6.73	9.43	12.35	16.90	0.70	0.61	0.241	0.49	0.15	0.18	0.04	0.02	1.90
40446703		109	65.6	14.90	4.77	2.61	2.96	3.74	3.09	0.017	0.41	0.07	0.28	0.06	0.04	0.98
40446704		118	71.1	15.40	1.06	0.44	0.23	2.71	8.71	0.003	0.04	0.01	0.02	0.04	0.10	0.43
40446705		275	64.9	17.45	3.88	2.29	1.55	5.39	2.93	0.014	0.27	0.05	0.07	0.05	0.03	1.45
40446706		60	50.1	8.55	9.35	11.30	14.50	1.32	0.82	0.193	0.58	0.15	0.16	0.04	0.03	1.73
40446707		66	51.0	7.88	9.97	11.80	16.00	1.12	0.74	0.202	0.56	0.15	0.16	0.03	0.02	2.16
40446708		429	74.6	13.20	2.25	1.40	0.77	3.60	3.74	0.007	0.12	0.03	0.05	0.03	0.04	0.71



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L
		Total %	Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	S %	Au ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446669		101.22	<0.5	<5	<0.5	1	5	10	1	7	44	1	<10	17	0.02	<1
40446670		98.06	2.4	7	<0.5	211	5170	20	3	7300	17	15	<10	90	2.41	204
40446671		100.03	<0.5	<5	<0.5	64	146	20	1	496	3	31	<10	89	0.24	2
40446672		101.53	<0.5	<5	<0.5	3	11	10	1	14	50	3	<10	27	0.03	<1
40446673		100.81	<0.5	<5	<0.5	65	130	20	<1	503	4	30	<10	84	0.21	<1
40446674		93.92	<0.5	<5	<0.5	66	163	10	<1	517	6	30	<10	76	0.23	<1
40446675		98.76	<0.5	<5	<0.5	67	167	20	1	517	4	30	<10	75	0.19	<1
40446676		98.32	<0.5	<5	<0.5	67	172	20	1	525	4	31	<10	74	0.22	<1
40446677		101.22	<0.5	<5	<0.5	9	52	40	1	44	45	8	<10	65	0.15	<1
40446678		99.80	<0.5	<5	<0.5	65	153	20	<1	538	7	30	<10	92	0.18	1
40446679		100.69	<0.5	<5	<0.5	1	10	10	1	5	54	2	<10	14	0.02	<1
40446680		101.58	<0.5	<5	<0.5	<1	13	10	1	5	60	1	<10	14	0.04	<1
40446681		101.51	<0.5	<5	<0.5	2	15	10	1	11	43	2	<10	28	0.06	<1
40446682		100.46	<0.5	283	<0.5	50	39	60	1	392	6	28	<10	190	0.11	<1
40446683		101.76	<0.5	<5	<0.5	5	27	40	1	38	47	8	<10	68	0.09	<1
40446684		100.07	<0.5	<5	<0.5	66	180	20	1	490	2	30	<10	80	0.21	<1
40446685		100.74	<0.5	<5	<0.5	63	136	20	<1	481	2	30	<10	81	0.14	<1
40446686		101.79	<0.5	<5	<0.5	7	46	30	1	43	27	9	<10	70	0.09	<1
40446687		99.07	<0.5	<5	<0.5	63	142	30	1	491	4	30	<10	117	0.19	<1
40446688		100.00	<0.5	<5	<0.5	8	45	40	<1	48	31	12	<10	99	0.14	<1
40446689		98.47	<0.5	<5	<0.5	55	111	20	1	428	5	25	<10	84	0.16	<1
40446690		99.29	<0.5	<5	<0.5	37	43	20	1	63	7	23	<10	149	0.16	<1
40446691		100.06	<0.5	<5	<0.5	14	147	40	1	99	15	15	<10	99	0.44	<1
40446692		98.64	<0.5	<5	<0.5	48	101	40	<1	376	7	24	<10	100	0.18	1
40446693		100.06	<0.5	<5	<0.5	54	128	30	<1	444	4	28	<10	124	0.17	1
40446694		100.69	<0.5	<5	<0.5	46	114	30	1	357	10	21	<10	89	0.22	1
40446695		99.63	<0.5	<5	<0.5	65	153	30	1	525	3	26	<10	85	0.21	<1
40446696		101.75	<0.5	<5	<0.5	5	15	30	<1	35	38	6	<10	41	0.04	<1
40446697		99.93	<0.5	<5	<0.5	66	157	20	<1	522	3	32	<10	76	0.23	<1
40446698		99.44	<0.5	<5	<0.5	66	136	20	1	515	3	29	<10	76	0.27	<1
40446699		98.39	<0.5	<5	<0.5	62	108	20	<1	496	3	28	<10	84	0.18	<1
40446700		98.59	2.6	7	<0.5	203	5020	20	3	7130	17	14	<10	87	2.44	162
40446701		100.80	<0.5	<5	<0.5	7	46	30	1	51	26	5	<10	43	0.12	<1
40446702		98.14	<0.5	<5	<0.5	65	86	30	<1	486	2	30	<10	85	0.10	<1
40446703		99.53	<0.5	<5	<0.5	15	67	50	1	77	22	9	<10	85	0.20	<1
40446704		100.29	<0.5	<5	<0.5	1	13	10	1	10	60	1	<10	10	0.05	<1
40446705		100.32	<0.5	<5	<0.5	8	45	50	1	39	32	8	<10	65	0.17	<1
40446706		98.82	<0.5	<5	<0.5	57	88	30	<1	377	5	28	<10	88	0.14	<1
40446707		101.79	<0.5	<5	<0.5	60	97	30	<1	403	3	29	<10	78	0.15	<1
40446708		100.55	<0.5	<5	<0.5	4	33	20	1	28	39	4	<10	36	0.13	<1

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
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Sample Description	Method Analyte Units LOD	PGM-MS23L Pt ppb 0.1	PGM-MS23L Pd ppb 0.2
40446669		<0.1	<0.2
40446670		473	260
40446671		0.4	<0.2
40446672		<0.1	<0.2
40446673		0.4	<0.2
40446674		0.5	0.4
40446675		0.4	<0.2
40446676		0.3	<0.2
40446677		<0.1	<0.2
40446678		0.5	0.3
40446679		<0.1	<0.2
40446680		<0.1	<0.2
40446681		<0.1	<0.2
40446682		0.2	<0.2
40446683		<0.1	0.7
40446684		0.3	<0.2
40446685		0.1	<0.2
40446686		<0.1	<0.2
40446687		0.4	<0.2
40446688		<0.1	<0.2
40446689		0.2	<0.2
40446690		<0.1	<0.2
40446691		<0.1	<0.2
40446692		0.2	<0.2
40446693		0.4	<0.2
40446694		0.2	<0.2
40446695		0.2	<0.2
40446696		<0.1	<0.2
40446697		0.2	<0.2
40446698		0.1	<0.2
40446699		0.1	<0.2
40446700		427	251
40446701		<0.1	<0.2
40446702		0.2	<0.2
40446703		<0.1	<0.2
40446704		<0.1	<0.2
40446705		<0.1	<0.2
40446706		0.1	<0.2
40446707		0.1	<0.2
40446708		<0.1	<0.2



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 North Vancouver BC V7H 0A7  
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Page: 5 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm	ME-MS81 Lu ppm	ME-MS81 Nb ppm
40446709		0.94	372	87.9	33	1.34	1.57	0.49	0.51	12.9	5.28	10.00	0.22	43.1	0.07	2.13
40446710		0.98	396	74.6	23	1.34	1.39	0.38	0.44	12.4	4.54	8.53	0.20	37.2	0.09	1.86
40446711		1.93	407	101.0	17	3.33	2.29	0.78	0.67	17.6	6.13	11.75	0.35	49.8	0.12	2.51
40446712		4.02	1280	144.5	45	5.46	3.03	1.41	2.64	22.1	6.19	4.65	0.52	74.5	0.15	8.30
40446713		3.80	1200	126.5	118	2.37	2.50	1.07	2.18	19.5	5.67	4.50	0.47	64.9	0.15	7.35
40446714		2.57	1025	134.5	21	2.49	1.77	0.56	1.46	20.9	3.66	4.96	0.26	76.4	0.07	8.06
40446715		2.62	1125	141.5	19	1.36	1.61	0.69	1.37	19.8	3.36	5.28	0.29	84.8	0.08	7.97
40446716		3.75	1345	135.5	17	1.31	1.10	0.47	1.34	19.6	2.94	5.56	0.18	76.9	0.09	6.48
40446717		3.68	1560	112.0	14	0.98	1.03	0.36	1.24	17.1	2.44	4.86	0.17	63.8	0.06	5.41
40446718		1.24	975	119.0	145	5.25	3.41	1.44	2.49	21.1	6.40	3.87	0.68	59.9	0.18	9.15
40446719		1.14	516	61.5	1080	2.34	2.48	0.94	1.69	9.9	4.66	1.98	0.43	27.0	0.13	2.86
40446720		1.34	812	55.1	49	1.46	6.67	3.62	1.88	23.2	7.81	5.54	1.41	25.0	0.49	9.60
40446721		1.39	1255	128.0	81	2.08	3.08	1.03	2.28	18.2	5.80	4.13	0.49	64.6	0.14	7.06
40446722		2.92	303	62.8	1265	1.22	3.06	1.30	2.08	12.0	5.47	1.95	0.58	27.1	0.16	3.54
40446723		0.76	1135	114.5	211	0.65	3.14	1.48	2.42	19.1	6.20	3.97	0.55	57.8	0.20	6.43
40446724		4.17	286	57.4	1420	0.41	2.60	1.15	1.75	10.0	5.03	1.82	0.44	24.3	0.12	2.66
40446725		2.24	351	54.2	1355	0.37	2.28	1.07	1.77	10.6	4.85	1.79	0.45	21.9	0.13	2.98
40446726		3.27	329	60.1	1230	0.38	2.98	1.35	2.00	11.7	5.77	1.89	0.59	23.7	0.18	3.29
40446727		3.37	324	63.9	884	0.45	3.03	1.43	2.16	13.4	6.09	2.04	0.52	26.9	0.15	3.20
40446728		0.97	1115	113.5	81	0.82	2.88	1.20	2.30	15.4	5.86	3.41	0.50	55.2	0.16	3.49
40446729		4.22	389	63.8	839	0.50	3.40	1.45	2.21	14.4	6.22	2.40	0.56	25.7	0.17	3.69
40446730		0.12	93.9	9.2	2130	0.78	1.25	0.63	0.37	7.8	1.45	0.94	0.23	5.0	0.11	2.27
40446731		3.83	281	61.4	1035	0.80	3.77	1.43	2.45	15.4	7.05	2.03	0.64	24.1	0.15	3.54
40446732		2.87	337	60.7	1015	0.70	3.22	1.38	1.93	13.4	5.91	2.14	0.59	26.1	0.19	3.54
40446733		4.03	380	38.3	662	0.87	2.58	1.05	1.35	13.5	4.56	1.83	0.45	17.0	0.14	3.37
40446734		3.98	433	64.7	564	0.45	3.12	1.20	2.13	12.0	5.55	2.44	0.53	26.1	0.15	3.23
40446735		3.11	191.0	41.8	790	0.23	2.95	1.22	1.86	10.3	5.06	1.91	0.47	15.2	0.15	2.10
40446736		3.85	338	49.9	569	3.41	2.33	0.92	1.69	10.7	4.28	2.11	0.41	19.3	0.10	3.02
40446737		2.67	245	56.1	1030	0.45	2.35	1.00	1.64	10.4	4.32	2.32	0.37	21.9	0.10	4.41
40446738		3.99	371	46.2	890	1.15	3.25	1.31	1.31	15.5	4.74	1.82	0.52	18.9	0.13	6.01
40446739		0.61	670	24.0	209	1.72	1.39	0.65	0.62	16.8	1.90	2.34	0.26	10.8	0.09	4.34
40446740		0.78	703	31.6	350	1.72	2.05	0.92	0.77	17.9	2.79	2.45	0.35	13.6	0.11	6.36
40446741		2.89	242	58.6	1300	0.44	2.81	1.16	1.79	12.8	5.11	2.29	0.45	20.5	0.14	4.25
40446742		2.56	111.0	49.2	1170	0.36	2.98	1.14	1.80	15.0	5.51	2.14	0.48	15.5	0.13	6.72
40446743		1.69	1095	229	47	2.61	3.55	0.97	1.08	25.2	10.25	5.82	0.49	104.0	0.11	9.69
40446744		4.19	359	54.3	1025	0.91	3.18	1.18	1.46	15.9	5.16	2.49	0.52	22.3	0.13	7.67
40446745		4.29	736	61.3	521	2.06	2.78	1.27	1.40	18.7	3.92	2.96	0.52	27.1	0.17	4.98
40446746		4.03	561	61.4	645	0.74	3.08	1.36	1.86	16.2	4.99	3.33	0.53	25.6	0.16	5.87
40446747		2.79	393	64.7	898	0.49	2.88	1.26	1.85	13.8	5.35	3.13	0.52	26.9	0.14	4.91
40446748		1.97	833	53.9	352	2.24	2.25	1.01	1.23	18.1	3.31	2.94	0.38	26.9	0.13	5.68

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.2	0.03	0.5	0.1	0.01	0.05	0.01	0.05	5	0.5	0.1	0.03	
40446709		39.6	11.10	75.6	7.84	1.7	261	0.2	0.44	33.6	0.07	6.90	5	<0.5	6.4	0.33
40446710		33.8	9.22	86.6	6.70	1.1	256	0.2	0.37	25.6	0.04	6.12	<5	<0.5	5.2	0.35
40446711		46.7	12.55	93.5	9.25	1.7	314	0.3	0.62	36.5	0.11	7.19	<5	0.9	9.7	0.55
40446712		70.5	18.80	109.0	10.80	1.6	1290	0.4	0.59	9.01	0.16	2.28	121	<0.5	14.8	1.21
40446713		61.9	15.70	76.8	9.09	0.7	1085	0.4	0.54	8.06	0.14	1.70	116	<0.5	12.8	1.02
40446714		52.5	15.50	51.0	7.06	0.6	1160	0.7	0.42	11.35	0.08	2.15	38	0.5	8.8	0.60
40446715		53.0	16.05	38.7	6.81	0.7	996	0.9	0.33	12.20	0.10	2.70	125	0.8	8.5	0.49
40446716		48.9	15.05	39.8	5.94	0.5	885	0.3	0.27	12.05	0.08	2.38	27	0.6	5.5	0.55
40446717		40.7	12.65	49.6	5.27	<0.5	724	0.4	0.21	10.80	0.06	4.67	18	<0.5	5.0	0.46
40446718		63.2	15.75	85.3	10.60	1.0	1125	0.5	0.70	6.96	0.19	2.81	135	1.0	16.4	1.14
40446719		39.5	8.92	45.6	6.75	0.9	376	0.1	0.51	2.20	0.15	0.63	138	0.6	11.6	0.89
40446720		35.1	7.99	97.7	8.45	1.8	482	0.5	1.18	3.17	0.47	1.18	176	<0.5	38.3	3.34
40446721		65.7	16.95	66.5	10.10	<0.5	1400	0.4	0.60	7.19	0.19	1.89	129	0.8	14.0	1.14
40446722		41.1	9.36	25.8	7.61	0.7	429	0.2	0.57	2.85	0.15	0.55	161	0.6	14.4	1.09
40446723		57.4	14.70	62.2	9.31	0.9	960	0.4	0.64	6.74	0.17	1.60	154	0.8	15.6	1.06
40446724		38.3	8.52	16.8	6.81	<0.5	392	0.2	0.51	1.72	0.15	0.42	155	2.7	12.4	1.02
40446725		37.1	8.47	19.6	6.54	<0.5	245	0.1	0.55	1.23	0.14	0.40	156	<0.5	12.4	0.85
40446726		44.3	9.36	16.6	8.03	0.6	361	0.2	0.61	1.85	0.17	0.91	176	0.6	15.2	1.02
40446727		45.8	9.85	18.8	8.85	0.5	471	0.2	0.63	2.23	0.14	0.54	179	0.6	15.2	1.08
40446728		60.3	15.20	61.7	9.98	0.6	1040	0.3	0.62	6.07	0.17	1.44	98	0.5	14.8	1.00
40446729		43.8	9.79	22.8	8.57	0.8	435	0.2	0.61	1.86	0.17	0.73	172	0.6	15.7	1.07
40446730		5.7	1.26	6.2	1.27	1.5	106.0	0.1	0.20	0.89	0.09	0.20	110	<0.5	7.0	0.58
40446731		47.7	10.10	18.2	10.55	1.2	405	0.2	0.73	1.51	0.19	0.43	227	1.0	18.3	1.30
40446732		41.1	8.93	29.3	7.78	0.9	419	0.2	0.56	2.14	0.18	0.56	189	0.6	15.4	1.20
40446733		26.8	6.03	33.3	5.92	0.9	405	0.5	0.52	3.11	0.14	3.82	171	0.7	12.1	1.02
40446734		38.9	8.80	24.9	8.28	0.8	556	0.2	0.67	2.86	0.14	0.79	194	0.9	14.3	1.04
40446735		30.1	6.19	8.5	6.59	0.6	362	0.1	0.60	1.53	0.16	0.45	204	1.1	12.5	0.92
40446736		30.1	6.89	42.6	5.96	0.8	265	0.3	0.49	2.18	0.13	0.81	120	0.5	9.9	0.70
40446737		32.7	7.47	24.6	6.00	0.7	370	0.7	0.50	3.63	0.12	4.34	116	0.8	10.3	0.85
40446738		26.0	6.12	63.8	5.69	2.1	437	0.9	0.67	3.86	0.17	4.88	88	0.8	14.7	0.93
40446739		11.4	2.94	83.1	2.41	0.9	470	0.9	0.28	9.49	0.09	18.40	24	0.7	7.7	0.64
40446740		15.6	3.78	86.8	3.36	1.6	476	1.3	0.41	10.55	0.13	20.4	39	0.5	10.4	0.86
40446741		36.6	8.41	27.7	7.14	1.2	398	0.3	0.60	2.12	0.17	0.90	127	0.8	12.6	0.96
40446742		36.4	7.57	27.3	7.78	4.1	321	0.5	0.63	1.83	0.16	1.40	118	0.6	13.2	0.97
40446743		91.0	25.2	166.5	17.35	2.7	583	0.9	1.01	68.3	0.11	6.22	23	0.9	12.9	0.65
40446744		30.4	7.29	44.3	6.52	3.3	459	0.5	0.63	3.27	0.16	2.11	102	0.7	13.7	0.92
40446745		30.0	7.18	84.0	6.01	1.1	685	0.4	0.54	4.77	0.20	1.77	184	0.5	14.3	1.26
40446746		34.5	8.07	53.6	6.75	0.8	637	0.4	0.63	3.96	0.19	1.15	173	1.0	14.2	1.01
40446747		36.9	8.35	40.6	6.92	1.0	426	0.3	0.62	4.95	0.17	1.28	136	<0.5	13.2	1.00
40446748		24.3	6.28	82.4	4.30	0.7	608	0.3	0.42	6.03	0.14	1.06	127	0.6	10.8	0.91

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 5 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L
		Total %	Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	S %	Au ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446709		101.26	<0.5	<5	<0.5	2	11	10	2	8	40	2	<10	44	0.04	<1
40446710		100.95	<0.5	<5	<0.5	1	10	10	2	5	38	1	<10	21	0.04	<1
40446711		98.97	<0.5	<5	<0.5	1	11	10	1	6	39	2	<10	15	0.03	<1
40446712		98.94	<0.5	<5	<0.5	21	92	40	1	47	20	11	<10	91	0.40	<1
40446713		100.99	<0.5	<5	<0.5	21	53	50	1	91	20	12	<10	93	0.13	<1
40446714		99.90	<0.5	<5	<0.5	7	153	30	1	18	24	3	<10	43	0.27	1
40446715		100.07	<0.5	<5	<0.5	5	23	30	1	11	23	3	<10	47	0.09	<1
40446716		100.16	<0.5	<5	<0.5	4	17	30	1	9	24	2	<10	43	0.06	<1
40446717		100.30	<0.5	<5	<0.5	2	38	20	1	5	32	2	<10	27	0.12	<1
40446718		98.40	<0.5	<5	<0.5	24	2	60	1	87	18	15	<10	109	0.03	<1
40446719		98.07	<0.5	<5	<0.5	65	20	50	<1	448	9	30	<10	98	0.01	<1
40446720		98.42	<0.5	<5	<0.5	28	35	20	1	39	14	19	<10	115	0.14	<1
40446721		98.10	<0.5	<5	<0.5	27	154	30	1	104	21	15	<10	83	0.28	2
40446722		101.95	<0.5	<5	<0.5	56	86	30	<1	359	5	31	<10	89	0.03	<1
40446723		98.54	<0.5	<5	<0.5	32	177	30	<1	154	10	18	<10	79	0.32	<1
40446724		98.33	<0.5	<5	<0.5	56	112	30	1	355	4	32	<10	86	0.09	<1
40446725		98.09	<0.5	<5	<0.5	60	132	30	<1	390	2	30	<10	85	0.13	<1
40446726		98.02	<0.5	<5	<0.5	63	99	30	<1	372	3	31	<10	91	0.11	<1
40446727		98.01	<0.5	<5	<0.5	56	155	40	1	328	4	30	<10	79	0.19	1
40446728		99.45	<0.5	<5	<0.5	31	380	30	1	79	6	14	<10	54	0.67	2
40446729		98.97	<0.5	<5	<0.5	51	85	30	1	231	4	30	<10	83	0.12	<1
40446730		98.40	2.4	7	<0.5	212	5250	20	3	7430	17	15	<10	92	2.46	163
40446731		100.83	<0.5	<5	<0.5	59	90	50	1	281	3	33	<10	88	0.10	<1
40446732		98.23	<0.5	<5	<0.5	57	145	40	<1	268	4	34	<10	91	0.23	<1
40446733		99.39	<0.5	<5	<0.5	53	148	40	1	278	5	33	<10	67	0.12	1
40446734		99.14	<0.5	<5	<0.5	54	174	30	1	260	6	36	<10	72	0.21	<1
40446735		98.72	<0.5	<5	<0.5	60	132	30	1	296	3	43	<10	73	0.09	<1
40446736		100.80	<0.5	<5	<0.5	94	525	40	<1	1210	6	27	<10	79	0.44	2
40446737		98.45	<0.5	<5	<0.5	61	146	30	<1	978	8	26	<10	68	0.13	1
40446738		99.22	<0.5	<5	<0.5	28	45	20	1	343	25	19	<10	53	0.07	1
40446739		100.44	<0.5	<5	<0.5	7	26	30	1	86	27	5	<10	26	0.03	<1
40446740		100.42	<0.5	<5	<0.5	11	30	40	1	129	23	8	<10	38	0.04	<1
40446741		98.49	<0.5	<5	<0.5	41	26	30	1	508	17	27	<10	75	0.04	<1
40446742		98.83	<0.5	<5	<0.5	35	8	30	1	454	9	24	<10	104	0.02	<1
40446743		100.47	<0.5	<5	<0.5	11	270	30	1	45	41	5	<10	33	1.20	3
40446744		101.08	<0.5	<5	<0.5	36	31	40	1	455	15	22	<10	87	0.14	1
40446745		100.53	<0.5	<5	<0.5	41	134	50	1	267	12	21	<10	86	0.26	<1
40446746		99.16	<0.5	<5	<0.5	40	104	40	<1	322	9	24	<10	71	0.13	2
40446747		99.08	<0.5	<5	<0.5	41	13	30	1	430	8	25	<10	70	0.03	<1
40446748		98.93	<0.5	<5	<0.5	27	197	40	1	169	14	16	<10	64	0.23	<1



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
------------------------------------

Sample Description	Method Analyte Units LOD	PGM-MS23L Pt ppb 0.1	PGM-MS23L Pd ppb 0.2
40446709		<0.1	<0.2
40446710		<0.1	<0.2
40446711		<0.1	<0.2
40446712		<0.1	<0.2
40446713		<0.1	<0.2
40446714		<0.1	<0.2
40446715		<0.1	<0.2
40446716		<0.1	<0.2
40446717		<0.1	<0.2
40446718		<0.1	<0.2
40446719		0.6	0.5
40446720		<0.1	<0.2
40446721		<0.1	<0.2
40446722		0.2	<0.2
40446723		0.1	<0.2
40446724		0.3	<0.2
40446725		0.3	0.2
40446726		0.3	<0.2
40446727		0.3	0.3
40446728		<0.1	<0.2
40446729		<0.1	<0.2
40446730		387	252
40446731		<0.1	<0.2
40446732		0.5	0.4
40446733		<0.1	<0.2
40446734		<0.1	<0.2
40446735		<0.1	<0.2
40446736		1.6	1.6
40446737		4.0	3.5
40446738		1.4	2.0
40446739		<0.1	<0.2
40446740		0.2	<0.2
40446741		2.2	2.4
40446742		2.3	2.3
40446743		0.2	0.5
40446744		2.9	4.6
40446745		2.2	2.1
40446746		1.3	1.0
40446747		1.7	1.4
40446748		1.4	1.3



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 North Vancouver BC V7H 0A7  
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Page: 6 - A  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
------------------------------------

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm	ME-MS81 Lu ppm	ME-MS81 Nb ppm
40446749		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
		3.96	385	58.9	774	1.06	3.63	1.66	1.79	14.2	6.01	3.14	0.62	23.8	0.20	4.52



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 6 - B  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
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Sample Description	Method Analyte Units LOD	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 0.5	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 0.5	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03
40446749		35.3	8.16	51.1	7.94	1.0	417	0.3	0.72	5.40	0.23	1.46	152	0.5	16.6	1.34

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 6 - C  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	ME-MS81 Zr ppm 1	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
40446749		97	56.2	11.40	6.90	8.22	9.56	2.32	1.44	0.095	0.66	0.09	0.17	0.04	0.04	1.66

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 6 - D  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

CERTIFICATE OF ANALYSIS TB22240973
------------------------------------

	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L	
Sample Description		Total	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	S	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446749		98.80	<0.5	<5	<0.5	40	18	40	1	410	9	25	<10	68	0.04	2

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 6 - E  
 Total # Pages: 6 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

Sample Description	Method Analyte Units LOD	PGM-MS23L Pt ppb 0.1	PGM-MS23L Pd ppb 0.2
40446749		0.7	1.0



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 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003511

**CERTIFICATE OF ANALYSIS TB22240973**

	<b>CERTIFICATE COMMENTS</b>												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS81</td> <td style="width: 17%;">OA-GRA05</td> </tr> <tr> <td>PGM-MS23L</td> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> </tr> </table>	ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05	PGM-MS23L	S-IR08	TOT-ICP06					
ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05										
PGM-MS23L	S-IR08	TOT-ICP06											





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 1  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

**CERTIFICATE TB22248099**

Project: EB80003510  
 P.O. No.: 3105220123  
 This report is for 218 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 26-AUG-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
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**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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:**   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 2 - A  
 Total # Pages: 7 (A - D)  
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CERTIFICATE OF ANALYSIS TB22248099

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417171		5.61	0.045	7.86	0.48	1100	2.08	0.195	2.75	0.043	127.0	15.70	65.8	4.27	12.15	3.49
40417172		5.38	0.054	7.67	0.45	1230	1.87	0.224	2.69	0.042	132.0	15.95	60.8	4.36	12.50	3.40
40417173		5.18	0.104	7.86	0.57	900	2.49	0.218	2.28	0.033	115.5	11.95	48.3	6.34	34.7	2.94
40417174		5.21	0.059	7.79	0.26	1470	1.76	0.105	2.08	0.018	141.0	11.95	31.7	3.81	7.39	3.06
40417175		2.78	0.047	7.84	0.38	1230	1.89	0.092	1.93	0.018	130.0	11.45	30.4	2.29	20.9	2.99
40417176		5.58	0.077	7.89	0.42	1470	1.78	0.132	2.38	0.020	141.0	12.85	35.0	3.37	11.20	3.26
40417177		5.75	0.089	7.56	0.27	650	1.61	0.135	1.30	0.034	70.0	3.94	13.3	3.98	16.95	1.680
40417178		3.67	0.026	7.03	0.40	560	1.33	0.065	0.93	0.021	48.5	1.145	8.2	1.95	4.03	0.930
40417179		2.53	0.181	7.98	0.33	1250	1.88	0.171	2.55	0.039	142.0	11.60	31.3	5.31	45.5	3.11
40417180		1.26	0.032	8.86	1.37	500	2.03	0.062	5.14	0.100	59.7	32.9	47.0	1.46	39.1	7.62
40417181		2.62	0.085	7.57	0.49	560	2.03	0.148	1.62	0.031	109.0	7.70	22.3	5.44	37.9	2.72
40417182		3.30	0.041	8.04	0.40	650	1.69	0.074	0.98	0.023	49.2	2.05	7.2	1.90	10.75	2.01
40417183		3.90	0.044	8.25	0.44	1350	1.91	0.118	2.28	0.020	148.5	12.75	33.6	3.24	11.15	3.24
40417184		3.43	0.046	7.65	0.28	1320	1.80	0.103	2.24	0.024	143.0	11.50	33.3	1.82	1.72	3.09
40417185		3.66	0.033	8.00	0.66	1380	1.83	0.096	2.27	0.017	144.0	11.70	31.4	2.16	2.08	3.05
40417186		1.97	0.064	7.88	0.56	1260	2.15	0.273	3.25	0.043	128.0	18.45	15.3	3.22	29.0	4.01
40417187		3.66	0.090	8.00	0.20	590	1.36	0.217	2.14	0.091	62.8	21.5	116.5	5.05	49.2	5.76
40417188		3.79	0.049	7.91	0.27	1270	1.74	0.122	2.56	0.047	124.5	13.65	55.8	3.14	16.10	3.10
40417189		5.20	0.065	7.67	0.55	610	1.50	0.180	2.36	0.073	68.0	19.05	114.5	4.12	40.8	4.09
40417190		0.17	0.482	9.40	4.91	340	0.64	0.135	6.56	0.252	27.9	63.6	1745	2.58	1110	8.44
40417191		5.49	0.080	7.70	0.30	700	1.23	0.150	2.21	0.078	60.6	19.95	131.5	3.50	47.9	4.05
40417192		5.46	0.085	7.87	0.35	630	1.23	0.214	2.22	0.094	55.2	23.5	150.0	4.38	50.8	4.65
40417193		5.67	0.074	7.76	0.24	680	1.38	0.218	2.29	0.064	68.6	20.1	112.5	4.61	46.3	4.19
40417194		5.77	0.078	7.49	0.23	620	1.28	0.195	2.45	0.050	57.7	20.8	116.0	4.67	53.2	4.32
40417195		5.46	0.064	7.86	0.23	610	1.43	0.154	2.38	0.063	52.8	20.3	111.5	4.59	46.9	4.21
40417196		5.78	0.076	7.69	0.39	630	1.17	0.195	2.77	0.072	54.4	20.8	151.0	3.25	44.8	4.37
40417197		6.07	0.075	7.43	0.16	540	1.38	0.136	2.63	0.089	44.9	23.1	271	5.20	34.2	3.91
40417198		4.60	0.027	6.93	0.28	700	0.61	0.043	0.49	0.019	25.4	1.035	8.1	1.24	1.72	0.720
40417199		2.48	0.027	6.94	0.37	650	0.77	0.042	0.66	0.017	91.7	1.385	10.0	1.54	1.22	0.970
40417200		2.48	0.031	7.02	0.38	660	0.78	0.040	0.65	0.018	94.0	1.340	10.1	1.61	1.34	0.960
40417201		3.81	0.088	7.83	0.36	600	1.02	0.252	3.03	0.100	47.1	31.7	238	5.10	60.1	5.52
40417202		4.77	0.086	7.82	0.27	490	1.43	0.160	1.79	0.088	69.4	21.1	136.0	4.79	49.7	4.71
40417203		4.65	0.035	6.19	0.09	520	0.83	0.056	0.63	0.029	23.1	2.35	16.0	1.50	4.17	1.280
40417204		3.31	0.025	6.69	0.16	580	0.80	0.054	0.61	0.029	25.5	1.110	9.9	1.33	2.75	0.820
40417205		3.47	0.038	6.60	0.27	460	1.01	0.053	0.78	0.035	65.1	1.480	11.7	1.29	6.86	0.870
40417206		3.45	0.057	6.29	0.13	510	0.83	0.071	0.57	0.041	14.70	1.175	10.0	1.20	7.34	0.800
40417207		3.74	0.045	6.61	0.24	610	0.64	0.056	0.42	0.026	59.1	1.260	9.2	1.73	5.63	0.870
40417208		3.77	0.090	6.82	0.21	580	0.98	0.066	0.59	0.028	78.4	1.300	10.6	1.67	2.88	0.850
40417209		5.31	0.037	6.58	0.19	650	0.61	0.042	0.45	0.023	20.5	0.809	7.8	1.20	3.60	0.630
40417210		1.49	0.027	8.10	0.72	560	1.89	0.023	5.00	0.127	64.5	32.3	48.6	1.17	39.4	7.69



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
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Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417171		21.6	0.25	4.06	0.037	2.52	57.5	58.3	1.79	555	1.12	3.03	7.57	58.7	0.168	24.6
40417172		21.2	0.27	4.34	0.032	2.04	59.3	59.5	1.75	539	0.92	3.09	8.21	56.2	0.172	20.9
40417173		21.8	0.25	3.59	0.036	1.99	53.1	46.1	1.39	473	1.02	3.25	8.15	43.0	0.148	19.65
40417174		21.4	0.28	4.66	0.034	2.05	66.6	51.9	1.23	422	1.06	3.45	9.05	30.2	0.170	20.2
40417175		22.3	0.25	4.73	0.032	1.80	61.0	44.1	1.32	467	0.84	3.68	8.67	29.0	0.170	15.30
40417176		22.6	0.29	5.09	0.035	1.80	65.5	56.9	1.36	487	1.06	3.42	9.27	31.8	0.184	18.35
40417177		18.90	0.20	2.60	0.024	4.08	32.0	20.4	0.40	245	1.14	2.87	4.31	9.88	0.098	37.4
40417178		16.55	0.16	3.04	0.015	4.37	21.2	9.0	0.13	149.5	1.60	2.76	1.760	4.38	0.047	43.1
40417179		22.8	0.26	5.16	0.031	1.59	66.5	38.3	1.23	470	0.97	3.33	10.25	30.4	0.169	17.85
40417180		24.4	0.32	2.40	0.102	1.47	23.9	15.6	2.42	1065	1.51	2.64	8.61	52.1	0.192	9.18
40417181		21.8	0.28	4.25	0.031	2.68	51.8	25.9	0.87	412	1.01	3.28	10.05	18.50	0.121	29.0
40417182		21.8	0.22	2.51	0.014	4.24	21.2	8.6	0.18	195.5	1.32	3.48	1.145	4.42	0.076	43.5
40417183		23.0	0.31	4.93	0.037	1.78	70.1	61.1	1.34	475	0.89	3.73	9.69	30.8	0.183	19.20
40417184		21.7	0.34	4.78	0.041	1.57	66.4	48.6	1.19	451	1.22	3.82	9.30	27.9	0.166	20.0
40417185		21.9	0.34	5.20	0.041	1.68	67.1	47.7	1.19	442	0.97	3.92	9.69	28.3	0.169	21.0
40417186		22.6	0.35	4.29	0.045	1.88	55.5	48.9	1.77	689	0.46	3.68	9.07	34.3	0.189	21.5
40417187		20.5	0.31	3.16	0.043	2.15	30.6	45.3	1.68	726	2.01	2.88	6.92	66.0	0.067	17.35
40417188		21.9	0.31	4.22	0.033	2.58	58.4	57.9	1.58	529	0.55	2.98	7.92	45.4	0.145	20.4
40417189		19.40	0.29	2.75	0.040	2.42	32.3	43.8	1.82	637	1.13	2.65	6.62	60.9	0.072	19.40
40417190		22.0	0.28	2.47	0.066	0.87	12.20	41.7	4.43	1065	3.18	1.560	7.79	702	0.069	6.37
40417191		19.00	0.24	3.05	0.036	2.05	29.0	48.4	1.77	600	1.60	2.41	5.73	64.9	0.066	14.75
40417192		20.2	0.25	3.05	0.053	2.13	25.9	53.8	2.01	738	1.62	2.45	6.10	75.7	0.065	15.25
40417193		20.2	0.27	3.37	0.038	2.09	32.9	44.7	1.66	639	2.15	2.67	6.75	63.3	0.074	16.05
40417194		19.85	0.23	3.18	0.039	1.98	26.7	38.6	1.64	652	1.44	2.55	6.54	60.7	0.071	14.30
40417195		19.80	0.24	3.15	0.042	1.99	25.0	37.9	1.58	660	1.75	2.67	6.04	60.0	0.061	15.25
40417196		19.25	0.25	2.99	0.035	1.79	25.3	38.3	1.90	663	2.14	2.63	5.62	80.9	0.069	15.10
40417197		18.45	0.25	2.31	0.038	2.31	20.6	48.7	2.74	642	1.72	2.52	5.63	143.0	0.064	18.75
40417198		13.70	0.15	1.505	0.015	5.56	12.05	5.8	0.12	101.0	0.73	2.07	2.89	2.32	0.010	54.3
40417199		15.60	0.19	4.94	0.026	4.93	42.8	8.4	0.18	136.5	0.99	2.20	3.90	2.34	0.012	57.4
40417200		15.15	0.17	4.38	0.016	5.07	43.9	8.7	0.17	137.0	1.04	2.25	3.87	2.35	0.013	60.8
40417201		20.2	0.22	2.89	0.052	2.22	21.5	52.9	3.01	949	1.31	2.26	5.48	150.0	0.065	13.10
40417202		21.7	0.14	3.33	0.056	2.16	31.8	64.4	1.91	660	1.92	2.72	8.79	73.0	0.060	15.15
40417203		14.65	0.12	1.820	0.018	4.21	10.75	13.2	0.28	179.0	0.99	2.11	6.07	5.72	0.009	59.8
40417204		14.55	0.14	1.325	0.018	4.91	11.55	6.7	0.15	122.0	2.04	2.35	3.61	2.23	0.009	53.1
40417205		15.30	0.17	3.09	0.013	3.92	28.9	8.9	0.17	128.5	0.85	2.56	3.66	3.21	0.012	50.9
40417206		14.45	0.15	1.195	0.012	4.04	6.90	8.2	0.15	107.0	0.83	2.40	2.93	2.02	0.008	47.4
40417207		14.15	0.19	2.92	0.014	4.75	26.4	7.9	0.18	117.5	0.80	2.21	3.47	1.86	0.012	48.7
40417208		15.90	0.22	5.94	0.018	4.66	34.0	9.6	0.18	127.0	0.84	2.46	3.98	1.89	0.013	56.1
40417209		13.55	0.19	1.090	0.010	4.96	9.34	4.9	0.10	81.1	0.83	2.10	2.15	1.32	0.009	52.6
40417210		24.0	0.26	1.910	0.101	1.40	26.5	14.5	2.38	1050	1.06	2.53	10.25	46.3	0.190	8.39



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40417171		81.3	<0.0004	0.03	0.03	10.35	0.030	1.25	1200	0.53	<0.005	7.96	0.359	0.503	2.63	79.1
40417172		69.7	<0.0004	0.01	0.06	9.27	0.049	1.04	1295	0.36	0.005	7.85	0.383	0.470	2.00	79.7
40417173		87.1	<0.0004	0.10	0.04	7.83	0.052	1.88	1045	0.66	0.010	8.29	0.323	0.553	3.32	62.5
40417174		70.2	<0.0004	0.02	0.06	6.91	0.023	1.01	1195	0.41	<0.005	9.17	0.418	0.440	1.65	63.2
40417175		60.8	<0.0004	0.04	0.05	6.92	0.039	1.34	936	0.40	<0.005	8.34	0.397	0.364	2.35	61.2
40417176		70.0	<0.0004	0.12	0.08	7.45	0.027	1.20	1225	0.45	<0.005	8.85	0.452	0.466	2.36	69.7
40417177		124.5	<0.0004	0.10	0.04	3.38	0.035	2.03	425	0.35	<0.005	13.00	0.124	0.675	2.95	17.9
40417178		113.0	<0.0004	0.02	0.03	1.55	0.011	1.22	268	0.19	<0.005	15.05	0.027	0.575	2.60	3.7
40417179		90.5	<0.0004	0.38	0.04	7.34	0.048	1.70	1205	0.54	<0.005	9.20	0.416	0.600	2.43	65.0
40417180		70.8	0.0012	0.14	0.09	23.8	0.144	1.53	480	0.47	0.027	2.50	0.979	0.322	1.17	182.5
40417181		109.5	<0.0004	0.24	0.03	6.55	0.038	3.91	509	0.71	<0.005	13.80	0.282	0.650	5.36	40.9
40417182		100.5	<0.0004	0.05	0.03	1.28	0.017	1.42	324	0.14	<0.005	16.45	0.037	0.506	6.30	10.6
40417183		71.6	<0.0004	0.07	0.09	7.65	0.030	1.16	1255	0.51	<0.005	9.22	0.441	0.443	3.02	67.8
40417184		51.9	<0.0004	0.01	0.08	6.96	0.017	1.03	1250	0.43	<0.005	9.01	0.420	0.337	2.27	62.9
40417185		58.7	<0.0004	0.01	0.07	6.74	0.018	1.05	1325	0.46	<0.005	9.04	0.419	0.368	2.29	64.2
40417186		58.9	0.0004	0.04	0.06	12.25	0.081	1.23	1410	0.43	0.010	7.43	0.415	0.396	2.19	102.0
40417187		92.0	0.0012	0.25	0.05	16.25	0.195	1.34	401	0.53	0.037	8.06	0.334	0.530	2.72	112.0
40417188		81.9	<0.0004	0.20	0.04	8.40	0.033	1.06	1045	0.37	<0.005	8.06	0.363	0.473	1.54	68.8
40417189		97.7	0.0007	0.21	0.05	13.85	0.123	1.77	495	0.49	0.020	9.14	0.305	0.571	3.18	92.5
40417190		29.3	0.0030	0.34	0.52	20.4	0.961	1.78	429	0.46	0.068	1.285	0.792	0.511	0.33	171.5
40417191		90.2	0.0006	0.24	0.07	13.25	0.150	1.14	482	0.41	0.030	8.37	0.299	0.524	2.41	96.5
40417192		83.6	0.0009	0.24	0.04	17.45	0.143	1.10	434	0.49	0.032	7.11	0.347	0.510	2.29	118.5
40417193		79.7	0.0007	0.29	0.04	13.95	0.149	1.21	509	0.53	0.034	8.88	0.334	0.517	2.16	99.6
40417194		72.1	0.0006	0.31	0.03	14.30	0.223	1.12	460	0.45	0.030	7.14	0.315	0.496	2.06	102.0
40417195		73.6	0.0007	0.24	0.04	14.55	0.131	1.05	428	0.50	0.036	7.06	0.318	0.472	2.93	102.0
40417196		63.0	0.0008	0.22	0.07	13.75	0.174	0.94	493	0.39	0.026	6.59	0.313	0.419	2.00	98.3
40417197		92.1	0.0005	0.16	0.02	13.05	0.126	1.82	413	0.43	0.026	6.42	0.257	0.623	5.00	87.9
40417198		137.0	<0.0004	0.01	0.03	1.78	<0.006	0.70	233	0.18	<0.005	9.45	0.033	0.700	11.50	5.4
40417199		128.0	<0.0004	0.01	0.03	2.75	0.022	1.03	224	0.23	<0.005	32.4	0.049	0.653	15.95	7.2
40417200		130.0	<0.0004	0.01	0.03	2.65	0.021	0.97	228	0.23	<0.005	33.1	0.049	0.673	22.5	7.1
40417201		86.7	0.0009	0.27	0.03	20.3	0.190	1.02	454	0.40	0.030	5.67	0.387	0.561	4.65	137.0
40417202		117.0	0.0009	0.25	0.04	16.00	0.182	2.44	394	0.60	0.041	10.45	0.336	0.715	3.10	104.0
40417203		102.0	<0.0004	0.04	0.03	3.53	0.024	1.31	198.0	0.38	<0.005	9.32	0.073	0.558	41.6	10.6
40417204		120.5	0.0004	0.02	0.03	2.05	0.030	0.86	213	0.24	<0.005	10.40	0.038	0.650	16.20	5.9
40417205		96.8	<0.0004	0.03	0.03	2.19	0.052	0.83	215	0.26	0.006	22.1	0.043	0.524	17.45	6.9
40417206		99.2	<0.0004	0.03	0.02	1.65	0.031	0.75	206	0.17	<0.005	5.57	0.035	0.535	17.45	5.6
40417207		106.5	<0.0004	0.03	0.03	2.15	0.039	0.90	202	0.22	<0.005	19.20	0.040	0.687	9.00	5.7
40417208		120.5	<0.0004	0.02	0.02	2.43	0.046	1.01	227	0.32	<0.005	30.4	0.045	0.628	17.20	6.3
40417209		103.0	<0.0004	0.02	0.03	1.20	0.030	0.59	218	0.13	<0.005	7.09	0.024	0.673	7.85	3.6
40417210		71.3	0.0014	0.15	0.06	26.1	0.137	1.56	467	0.54	0.018	3.16	0.975	0.322	1.09	187.0



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417171		0.400	12.35	70.9	173.0	0.0044	<0.004	<0.002	1	0.7	0.6
40417172		0.587	9.55	76.0	183.5	0.0030	0.006	<0.002	1	0.5	0.6
40417173		0.414	9.32	73.9	150.5	0.0020	0.006	<0.002	1	0.4	0.4
40417174		0.860	8.44	73.0	204	0.0029	0.005	<0.002	1	0.4	0.2
40417175		0.707	8.98	68.6	206	0.0055	0.007	<0.002	1	0.3	0.3
40417176		0.837	8.93	84.0	221	0.0039	0.006	<0.002	<1	0.3	0.3
40417177		0.625	10.15	36.2	91.4	0.0017	0.004	<0.002	1	0.8	0.4
40417178		0.406	7.17	14.3	84.6	0.0028	<0.004	<0.002	<1	0.2	0.2
40417179		0.507	9.06	83.9	219	0.0042	0.006	<0.002	1	0.3	0.4
40417180		0.382	37.6	110.0	79.3	0.0027	0.005	<0.002	1	0.4	0.6
40417181		0.229	10.35	78.3	164.5	0.0027	0.004	<0.002	1	0.3	0.3
40417182		0.376	9.70	24.9	72.1	0.0028	0.005	<0.002	1	0.2	0.2
40417183		0.698	9.37	82.7	216	0.0050	0.007	<0.002	1	0.4	0.3
40417184		0.905	8.43	75.6	212	0.0034	0.009	<0.002	2	0.3	0.3
40417185		1.005	9.08	80.3	229	0.0029	0.010	<0.002	1	0.3	0.4
40417186		0.577	12.95	98.0	178.5	0.0032	0.005	<0.002	2	0.3	0.5
40417187		0.549	12.25	82.4	116.5	0.0039	0.005	<0.002	1	1.8	1.8
40417188		0.295	8.32	82.2	181.5	0.0045	<0.004	<0.002	1	1.4	1.0
40417189		0.646	11.55	73.4	103.5	0.0024	0.006	<0.002	1	1.9	1.7
40417190		0.278	18.45	107.5	97.4	0.0116	0.025	0.176	22	33.2	222
40417191		0.420	10.65	74.6	113.0	0.0023	0.005	<0.002	1	1.5	1.5
40417192		0.574	13.05	85.9	117.5	0.0022	0.009	<0.002	1	1.6	1.8
40417193		0.584	10.75	79.1	123.5	0.0026	0.007	<0.002	1	1.6	1.4
40417194		0.434	11.05	76.1	116.0	0.0018	<0.004	<0.002	1	1.5	1.5
40417195		0.518	11.10	76.6	111.0	0.0023	0.006	0.008	1	3.1	1.6
40417196		0.480	11.30	77.1	114.0	0.0023	0.004	<0.002	1	1.5	1.7
40417197		0.411	10.00	71.0	85.5	0.0016	<0.004	<0.002	1	2.5	2.3
40417198		0.140	2.05	15.9	42.2	0.0004	0.005	0.006	1	1.0	2.7
40417199		0.164	5.92	19.9	147.5	0.0025	0.004	<0.002	1	0.2	0.3
40417200		0.173	6.02	20.0	133.5	0.0025	0.005	<0.002	1	0.3	0.3
40417201		0.404	14.55	94.1	107.0	0.0024	0.005	<0.002	1	1.8	1.9
40417202		0.584	12.85	89.1	118.0	0.0016	<0.004	<0.002	1	1.8	1.6
40417203		0.250	2.77	26.2	49.8	0.0015	<0.004	<0.002	1	0.4	0.3
40417204		0.168	2.48	17.0	35.7	0.0014	<0.004	<0.002	1	0.2	0.3
40417205		0.174	4.76	19.1	87.2	0.0019	<0.004	<0.002	1	0.3	0.2
40417206		0.139	1.57	19.0	32.1	0.0008	0.004	<0.002	1	1.4	4.0
40417207		0.188	4.06	19.7	85.3	0.0015	<0.004	<0.002	1	0.2	0.2
40417208		0.565	5.50	18.8	164.5	0.0055	<0.004	<0.002	1	0.3	0.2
40417209		0.142	1.54	10.5	29.0	<0.0004	0.004	<0.002	1	0.2	0.3
40417210		0.224	43.5	117.5	63.8	0.0013	<0.004	<0.002	1	0.4	0.5





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

CERTIFICATE OF ANALYSIS TB22248099
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Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417211		14.40	0.22	1.745	0.011	5.09	18.25	7.4	0.15	101.5	0.70	2.06	3.24	2.18	0.012	60.0
40417212		21.5	0.20	3.33	0.058	1.97	33.8	57.3	2.31	686	1.38	2.77	10.60	67.5	0.075	19.50
40417213		17.55	0.23	2.23	0.034	3.18	19.85	30.1	0.92	365	1.52	2.46	4.96	31.9	0.037	38.6
40417214		19.10	0.27	2.72	0.054	1.76	31.3	45.1	3.46	803	0.76	2.42	7.08	79.4	0.091	32.3
40417215		13.45	0.21	1.205	0.011	4.38	9.40	6.8	0.12	108.0	0.91	1.890	3.03	1.52	0.009	65.8
40417216		15.45	0.23	7.13	0.017	5.07	38.4	8.0	0.18	112.5	0.89	2.43	2.82	2.30	0.015	56.6
40417217		16.95	0.17	3.33	0.017	3.95	16.20	13.2	0.34	154.0	0.80	2.91	5.35	2.95	0.010	40.9
40417218		15.75	0.16	3.61	0.014	2.98	12.90	11.6	0.25	126.5	0.88	3.09	3.11	1.72	0.008	33.6
40417219		14.30	0.15	4.33	0.018	5.27	22.2	9.7	0.20	128.0	0.84	1.980	4.18	1.75	0.010	55.2
40417220		21.0	0.23	2.50	0.065	0.78	11.50	38.9	4.06	990	2.80	1.485	7.63	658	0.063	6.69
40417221		14.95	0.23	4.44	0.012	4.65	33.6	8.0	0.14	104.0	0.79	2.51	2.96	1.54	0.012	69.1
40417222		14.70	0.18	1.805	0.015	3.78	11.40	4.7	0.08	91.9	1.07	2.85	2.32	1.44	0.009	49.1
40417223		14.70	0.18	2.68	0.012	4.02	20.7	5.1	0.09	90.6	0.87	2.73	2.37	1.13	0.010	59.2
40417224		14.75	0.21	2.16	0.013	3.76	23.0	8.3	0.10	113.5	1.20	2.45	3.19	1.44	0.013	60.4
40417225		20.9	0.20	2.75	0.026	2.03	23.6	39.2	1.49	527	1.56	2.52	6.95	56.6	0.054	19.65
40417226		21.5	0.27	3.01	0.050	2.01	24.1	53.3	1.89	673	2.31	2.88	5.70	80.7	0.065	16.65
40417227		20.8	0.28	3.03	0.044	1.71	24.5	51.3	1.81	613	1.81	2.58	5.83	75.3	0.069	15.30
40417228		20.4	0.27	3.10	0.048	1.87	22.6	49.7	1.93	613	1.72	2.31	5.63	77.2	0.066	14.00
40417229		20.9	0.30	3.41	0.042	1.93	27.1	49.3	1.55	586	1.68	2.59	5.87	57.3	0.060	16.35
40417230		20.3	0.31	2.83	0.032	1.89	28.2	48.5	1.51	584	1.89	2.58	5.85	56.0	0.056	16.25
40417231		19.70	0.28	3.02	0.030	2.65	23.5	40.6	1.16	454	1.55	2.63	5.73	43.7	0.043	27.0
40417232		20.3	0.29	4.46	0.031	2.24	34.3	33.1	0.95	411	1.81	2.95	8.03	37.8	0.036	26.6
40417233		20.8	0.30	4.06	0.031	2.10	35.8	48.4	1.27	522	1.91	2.71	7.05	51.6	0.050	22.2
40417234		20.9	0.29	3.02	0.040	2.01	24.4	53.9	1.54	613	1.52	2.61	5.84	57.9	0.055	16.85
40417235		20.2	0.28	3.04	0.036	2.57	24.0	47.4	1.59	594	2.43	2.45	6.57	67.1	0.059	20.6
40417236		16.40	0.22	1.825	0.024	4.27	13.85	19.8	0.64	259	1.35	2.25	4.18	21.0	0.029	54.1
40417237		20.9	0.29	3.00	0.048	2.05	25.0	50.4	1.68	653	1.99	2.55	5.83	70.1	0.057	15.15
40417238		18.25	0.18	3.23	0.034	1.91	38.5	40.0	2.06	683	1.54	2.39	6.39	79.8	0.098	14.70
40417239		19.70	0.21	3.18	0.028	2.28	28.7	46.4	1.66	531	1.67	2.74	6.41	57.0	0.063	15.85
40417240		23.5	0.40	2.10	0.111	1.57	26.2	16.2	2.84	1245	1.23	2.62	9.84	56.1	0.220	8.05
40417241		19.25	0.25	3.16	0.029	1.92	28.4	37.9	1.42	642	1.47	2.70	6.04	47.5	0.058	16.25
40417242		18.95	0.23	2.93	0.025	1.72	25.5	34.8	1.24	579	1.40	2.47	5.60	47.3	0.049	15.90
40417243		19.35	0.26	3.67	0.035	1.80	41.3	30.7	1.14	499	1.46	2.45	8.29	53.0	0.054	19.75
40417244		18.00	0.16	2.13	0.018	2.62	12.05	20.5	0.49	215	1.04	2.63	7.68	19.20	0.023	30.8
40417245		21.9	0.30	2.93	0.061	2.23	37.3	52.4	2.09	740	1.20	2.45	10.40	98.9	0.100	16.20
40417246		17.80	0.18	1.490	0.040	2.74	15.95	32.6	0.78	366	1.47	2.32	8.06	29.0	0.028	25.8
40417247		19.40	0.24	2.84	0.040	1.82	27.7	49.5	1.47	661	1.83	2.62	6.28	60.4	0.058	15.35
40417248		15.25	0.22	5.62	0.014	6.13	43.7	8.2	0.20	128.5	0.83	2.29	4.23	3.52	0.014	51.4
40417249		24.7	0.29	1.850	0.097	1.79	24.1	17.4	2.35	1010	0.95	2.39	9.66	46.2	0.174	10.50
40417500		19.20	0.23	3.14	0.020	1.83	29.8	39.8	1.16	509	2.03	2.64	6.16	44.8	0.050	17.35







ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
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Page: 3 - D  
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		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417211		0.177	2.90	16.5	48.4	<0.0004	0.004	<0.002	<1	0.2	0.2
40417212		0.705	13.90	96.1	116.5	0.0037	<0.004	<0.002	1	1.7	1.9
40417213		0.432	8.25	64.0	77.2	0.0017	<0.004	0.004	1	1.0	1.0
40417214		0.360	13.45	98.4	96.8	0.0024	<0.004	<0.002	1	2.5	2.7
40417215		0.199	2.93	14.3	30.9	<0.0004	0.005	0.003	1	0.2	0.3
40417216		0.621	7.08	12.1	206	0.0056	<0.004	<0.002	1	0.3	0.3
40417217		0.368	4.69	16.0	91.0	0.0028	<0.004	0.004	1	0.2	0.2
40417218		0.203	3.34	11.0	97.5	0.0031	0.004	<0.002	<1	0.2	0.2
40417219		0.194	4.05	16.8	117.0	0.0027	<0.004	<0.002	1	0.3	0.2
40417220		0.244	20.6	103.0	95.6	0.0189	0.025	0.164	22	57.1	256
40417221		0.156	5.03	15.7	122.0	0.0042	0.004	<0.002	<1	<0.1	<0.2
40417222		0.152	2.45	12.4	48.8	0.0015	<0.004	<0.002	<1	<0.1	<0.2
40417223		0.197	3.23	10.7	74.0	0.0019	<0.004	<0.002	<1	<0.1	<0.2
40417224		0.201	4.09	15.0	57.7	0.0021	<0.004	<0.002	<1	<0.1	<0.2
40417225		0.381	11.30	70.8	98.5	0.0013	0.004	<0.002	<1	0.6	0.4
40417226		0.898	13.25	87.5	110.0	0.0027	0.004	<0.002	<1	1.1	1.0
40417227		0.595	12.80	82.0	110.5	0.0019	<0.004	0.003	<1	0.9	0.8
40417228		0.446	12.05	80.4	113.0	0.0025	<0.004	<0.002	<1	0.9	0.8
40417229		0.656	12.35	78.5	121.0	0.0030	<0.004	0.005	<1	0.6	0.4
40417230		0.579	12.20	76.1	106.5	0.0011	0.005	0.010	<1	0.8	0.3
40417231		0.497	9.83	63.3	107.0	0.0019	<0.004	0.007	<1	0.4	<0.2
40417232		0.417	9.47	67.3	156.0	0.0026	<0.004	0.002	<1	0.2	<0.2
40417233		0.496	11.75	79.1	143.5	0.0043	0.006	<0.002	<1	0.5	<0.2
40417234		0.538	12.05	79.4	112.0	0.0023	0.005	<0.002	<1	0.7	0.4
40417235		0.465	12.30	75.4	112.0	0.0026	<0.004	<0.002	<1	0.9	0.8
40417236		0.313	13.15	38.4	58.8	0.0004	<0.004	<0.002	<1	0.5	1.9
40417237		0.478	12.95	83.4	113.0	0.0024	0.004	<0.002	<1	1.0	0.8
40417238		0.466	12.10	79.1	121.5	0.0043	0.008	0.006	<1	0.8	0.5
40417239		0.513	10.95	80.6	126.0	0.0040	0.011	<0.002	<1	0.7	0.3
40417240		0.312	42.1	128.0	68.0	0.0037	0.006	<0.002	<1	<0.1	<0.2
40417241		0.620	11.80	75.8	120.5	0.0031	0.009	0.012	<1	0.4	<0.2
40417242		0.696	11.30	71.2	108.5	0.0023	0.004	0.006	<1	0.5	<0.2
40417243		0.293	11.30	69.2	124.5	0.0022	<0.004	<0.002	<1	0.7	<0.2
40417244		0.289	2.94	42.5	64.1	0.0018	<0.004	<0.002	<1	<0.1	<0.2
40417245		0.691	12.70	103.5	105.5	0.0025	<0.004	0.003	<1	0.6	0.6
40417246		0.470	6.14	64.4	55.0	0.0006	0.006	0.004	<1	<0.1	<0.2
40417247		0.569	12.20	77.7	105.0	0.0018	<0.004	<0.002	<1	0.8	0.7
40417248		0.167	3.74	22.6	171.0	0.0038	0.006	0.023	<1	<0.1	<0.2
40417249		0.246	40.0	111.0	58.0	0.0017	<0.004	0.009	<1	<0.1	<0.2
40417500		0.514	11.25	69.8	113.0	0.0021	0.005	<0.002	<1	0.4	<0.2



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

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 4 - A  
Total # Pages: 7 (A - D)  
Plus Appendix Pages  
Finalized Date: 14-OCT-2022  
Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
40417501	3.03	0.094	7.50	1.50	530	1.31	0.144	1.47	0.079	59.8	18.35	95.4	2.44	40.2	3.77	
40417502	1.32	0.090	6.73	0.39	630	1.35	0.058	0.85	0.032	29.5	3.62	27.3	1.20	11.70	1.260	
40417503	4.59	0.110	7.65	0.69	580	1.13	0.188	2.10	0.090	61.3	23.1	125.5	4.64	50.7	4.38	
40417504	5.82	0.093	7.66	0.97	580	1.07	0.176	1.96	0.083	50.1	24.9	142.5	3.84	53.4	4.69	
40417505	5.99	0.106	7.58	0.85	640	1.21	0.229	1.97	0.084	58.1	20.1	113.0	3.35	46.3	4.21	
40417506	5.29	0.072	7.14	0.49	500	1.22	0.141	1.56	0.057	47.4	16.00	98.2	3.52	33.0	3.60	
40417507	3.48	0.084	7.36	0.37	620	1.10	0.163	1.87	0.058	55.9	21.8	121.0	3.14	49.4	4.25	
40417508	3.85	0.092	7.62	0.66	600	1.22	0.166	1.98	0.058	50.9	21.6	108.0	3.63	44.4	4.29	
40417509	1.22	0.052	6.84	0.32	800	0.55	0.107	1.05	0.029	27.4	2.84	19.6	1.52	7.06	1.130	
40417510	0.17	0.488	8.50	4.90	340	0.59	0.143	6.42	0.249	24.1	66.0	1585	2.23	1115	8.35	
40417511	4.51	0.092	7.71	0.84	570	1.23	0.190	2.59	0.076	53.1	25.2	124.5	3.78	51.7	4.91	
40417512	5.39	0.089	7.48	1.05	640	1.15	0.188	2.55	0.079	49.7	23.2	116.5	4.45	46.1	4.54	
40417513	5.40	0.083	7.78	0.58	640	1.15	0.138	1.98	0.059	54.0	22.0	111.5	3.43	41.5	4.34	
40417514	5.89	0.087	7.83	0.61	560	1.16	0.197	2.02	0.068	53.8	22.4	120.5	5.01	57.2	4.50	
40417515	5.71	0.093	7.68	0.45	580	1.17	0.168	2.19	0.054	54.6	21.6	120.0	5.30	58.4	4.39	
40417516	5.67	0.086	7.54	1.38	610	1.34	0.187	2.12	0.061	52.5	21.5	115.5	3.59	46.9	4.21	
40417517	2.44	0.116	7.54	0.54	520	1.68	0.230	1.92	0.055	49.0	18.25	108.5	2.41	43.1	3.68	
40417518	0.98	0.110	7.28	0.47	298	1.63	0.210	1.74	0.083	82.4	10.15	64.5	0.97	23.4	3.15	
40417519	0.65	0.102	7.83	0.67	383	1.68	0.238	1.65	0.092	98.8	19.70	102.5	2.36	42.3	4.45	
40417520	0.65	0.132	7.89	1.15	450	1.66	0.326	1.52	0.099	161.5	16.10	91.1	1.87	38.1	4.64	
40417521	3.71	0.103	6.96	0.28	580	1.04	0.092	0.86	0.029	43.1	3.32	23.8	1.71	4.83	1.440	
40417522	4.10	0.110	7.82	0.33	600	1.20	0.172	2.46	0.086	53.6	23.7	161.5	5.16	47.6	4.39	
40417523	5.61	0.107	7.50	0.42	710	1.18	0.186	2.57	0.098	67.0	22.5	140.5	4.49	43.6	4.32	
40417524	5.61	0.111	7.62	0.37	790	1.15	0.191	2.86	0.115	72.8	24.1	126.0	4.27	51.4	4.39	
40417525	5.54	0.064	7.37	0.11	570	1.09	0.120	1.81	0.064	57.2	16.90	88.6	3.87	36.8	3.81	
40417526	4.62	0.030	6.39	0.44	670	0.72	0.072	0.72	0.056	30.9	4.12	21.5	1.19	6.69	1.600	
40417527	4.20	0.126	7.50	1.08	710	1.18	0.163	1.94	0.139	56.1	18.70	96.1	2.12	43.1	4.08	
40417528	5.44	0.086	7.07	0.75	700	1.20	0.133	2.14	0.072	56.3	21.8	127.5	2.65	43.9	4.08	
40417529	5.60	0.079	7.16	0.76	630	1.47	0.128	2.32	0.060	54.9	19.50	147.5	2.40	36.8	4.29	
40417530	1.60	0.025	8.52	1.08	580	2.36	0.061	5.07	0.101	63.4	29.4	41.5	1.84	37.3	7.58	
40417531	5.55	0.088	7.26	0.85	430	1.51	0.163	2.37	0.072	49.0	18.15	96.6	1.78	46.3	4.13	
40417532	2.14	0.046	6.68	0.35	630	1.16	0.039	0.74	0.029	29.7	1.525	14.9	1.03	3.91	0.900	
40417533	4.75	0.086	7.31	0.73	670	1.31	0.153	2.10	0.085	51.6	18.90	109.0	2.09	61.9	4.34	
40417534	5.70	0.087	7.58	0.61	670	1.15	0.149	1.98	0.087	53.3	21.0	129.5	3.37	49.9	4.52	
40417535	5.56	0.093	7.64	0.82	610	1.21	0.194	2.16	0.086	50.8	24.0	145.0	3.34	54.0	5.01	
40417536	5.61	0.094	7.46	0.60	820	1.32	0.143	1.61	0.062	73.7	15.15	88.4	1.92	40.6	3.50	
40417537	5.37	0.080	7.57	0.85	640	1.25	0.185	2.58	0.114	56.9	23.0	128.0	2.92	55.7	4.83	
40417538	5.58	0.091	7.88	0.64	760	1.36	0.185	2.11	0.059	66.1	22.4	145.5	4.82	54.1	4.74	
40417539	5.51	0.072	7.61	0.58	700	1.33	0.144	2.18	0.043	59.1	21.4	136.5	3.27	43.2	4.58	
40417540	0.17	0.575	9.13	5.28	341	0.64	0.138	6.71	0.260	25.6	66.3	1760	2.40	1130	8.84	

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417501		0.592	11.70	74.7	119.0	0.0022	0.005	<0.002	<1	0.5	0.2
40417502		0.387	4.13	29.0	82.4	0.0013	<0.004	<0.002	<1	<0.1	<0.2
40417503		0.589	12.65	84.0	111.0	0.0025	<0.004	0.002	<1	0.7	0.6
40417504		0.535	13.35	85.1	116.0	0.0016	0.004	<0.002	<1	1.1	0.9
40417505		0.538	11.55	75.3	118.0	0.0011	<0.004	<0.002	<1	0.6	0.4
40417506		0.455	8.45	69.9	108.5	0.0019	0.005	<0.002	<1	0.6	0.3
40417507		0.540	11.70	78.9	115.5	0.0026	<0.004	0.005	<1	1.0	0.5
40417508		0.561	11.00	79.7	111.0	0.0019	0.006	<0.002	<1	0.7	0.4
40417509		0.258	19.15	20.1	17.9	<0.0004	0.004	<0.002	<1	<0.1	<0.2
40417510		0.246	17.85	107.0	96.8	0.0156	0.035	0.260	17	46.9	198.0
40417511		0.496	11.85	84.3	113.0	0.0022	0.005	<0.002	<1	0.7	0.3
40417512		0.594	10.50	81.5	114.0	0.0026	0.008	<0.002	<1	0.7	0.3
40417513		0.543	11.20	80.4	111.5	0.0007	0.006	<0.002	<1	0.7	0.5
40417514		0.640	11.45	84.5	111.5	0.0036	0.007	<0.002	<1	0.9	0.5
40417515		0.452	11.75	79.4	119.0	0.0010	<0.004	0.007	<1	0.6	0.4
40417516		0.383	10.65	78.9	112.0	0.0020	0.006	<0.002	<1	1.0	1.7
40417517		0.605	10.50	74.7	99.7	0.0034	<0.004	0.002	<1	0.5	0.2
40417518		0.569	9.47	78.8	117.0	0.0006	<0.004	<0.002	<1	<0.1	<0.2
40417519		0.755	14.95	111.0	129.0	0.0022	0.005	<0.002	<1	0.2	<0.2
40417520		0.819	17.90	116.5	127.5	0.0006	0.005	0.004	<1	<0.1	<0.2
40417521		0.459	3.29	37.1	61.2	0.0005	0.004	<0.002	<1	<0.1	<0.2
40417522		0.521	11.65	83.4	112.5	0.0022	<0.004	0.010	<1	1.0	0.7
40417523		0.539	12.20	79.6	109.5	0.0020	<0.004	0.018	<1	0.7	0.5
40417524		0.536	13.55	83.4	129.0	0.0028	0.005	<0.002	<1	0.5	<0.2
40417525		0.507	10.10	73.5	114.0	0.0020	0.005	<0.002	<1	0.3	<0.2
40417526		0.340	2.68	36.7	56.3	0.0010	<0.004	<0.002	<1	<0.1	<0.2
40417527		0.788	10.95	81.8	115.5	0.0025	<0.004	0.005	<1	0.6	0.2
40417528		0.537	11.35	80.9	127.0	0.0025	0.006	<0.002	<1	0.9	1.8
40417529		0.544	10.60	74.7	107.0	0.0017	0.007	<0.002	<1	0.7	0.4
40417530		0.361	39.1	122.5	89.3	0.0023	0.004	<0.002	<1	<0.1	<0.2
40417531		0.662	11.20	73.2	97.5	0.0016	0.010	<0.002	<1	0.4	<0.2
40417532		0.176	2.40	17.7	47.5	0.0015	<0.004	0.002	<1	<0.1	<0.2
40417533		0.673	11.45	79.0	125.0	0.0006	0.009	<0.002	<1	0.7	0.2
40417534		0.522	11.35	79.8	117.0	0.0031	0.011	<0.002	<1	0.7	0.5
40417535		0.635	12.15	86.1	117.5	0.0034	0.008	0.009	<1	0.9	0.6
40417536		0.510	10.10	66.9	143.0	0.0023	0.009	<0.002	<1	0.1	<0.2
40417537		0.643	11.90	94.0	114.0	0.0036	0.009	<0.002	<1	0.7	0.4
40417538		0.587	13.40	83.9	125.0	0.0030	0.004	<0.002	<1	0.9	0.3
40417539		1.045	11.95	81.3	110.0	0.0033	<0.004	0.007	<1	1.1	0.5
40417540		0.256	18.80	112.5	102.0	0.0231	0.044	0.157	20	43.9	200

\*\*\*\*\* 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/geochemistry

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Page: 5 - B  
 Total # Pages: 7 (A - D)  
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 Finalized Date: 14-OCT-2022  
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Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOD	0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01	
40417541	19.20	0.20	3.07	0.043	2.36	27.2	45.3	2.15	733	1.44	2.42	6.69	76.2	0.077	14.65	
40417542	19.35	0.18	3.63	0.032	2.14	27.2	40.8	1.63	668	1.87	2.55	6.57	63.5	0.061	15.95	
40417543	20.3	0.24	3.64	0.025	2.77	33.0	38.2	1.31	565	3.64	2.73	7.87	52.6	0.055	19.05	
40417544	20.3	0.24	3.64	0.031	1.99	33.3	40.6	1.44	641	1.80	2.84	7.71	53.5	0.063	18.25	
40417545	20.2	0.29	3.18	0.043	2.20	27.7	47.8	1.84	735	2.61	2.46	6.85	71.8	0.061	14.90	
40417546	20.7	0.28	3.13	0.042	2.13	23.8	50.7	2.12	751	1.59	2.42	6.88	77.5	0.065	14.55	
40417547	19.90	0.28	2.88	0.038	2.08	23.2	49.1	2.10	813	1.94	2.19	6.09	88.4	0.064	11.50	
40417548	19.30	0.25	2.85	0.040	2.04	22.1	57.5	1.70	602	2.13	2.61	6.18	68.3	0.059	16.50	
40417549	20.5	0.25	3.02	0.035	1.95	22.7	48.8	1.74	703	1.98	2.63	5.78	70.6	0.056	14.30	
40417550	20.4	0.26	3.17	0.032	1.89	23.3	46.5	1.72	687	2.20	2.51	5.85	72.7	0.054	14.40	
40417551	20.7	0.25	3.16	0.037	2.10	27.6	45.7	1.56	672	3.14	2.87	6.40	59.4	0.063	16.10	
40417552	19.95	0.25	3.70	0.029	1.91	30.8	45.1	1.36	551	1.90	2.87	6.89	49.2	0.051	17.15	
40417553	20.7	0.29	3.26	0.040	2.22	32.8	46.0	1.97	650	1.56	2.50	6.42	77.5	0.081	15.10	
40417554	19.70	0.24	3.18	0.035	2.21	31.1	48.7	1.84	639	1.54	2.61	6.63	73.5	0.081	15.60	
40417555	16.40	0.14	8.13	0.021	4.60	98.5	14.8	0.34	211	0.82	2.44	6.19	3.00	0.058	38.2	
40417556	18.15	0.21	3.03	0.025	1.99	27.7	30.7	1.26	481	1.60	2.83	5.40	42.6	0.054	18.25	
40417557	17.50	0.24	3.13	0.047	1.87	40.7	35.6	2.35	745	1.39	2.22	6.88	83.5	0.101	18.55	
40417558	22.0	0.29	4.98	0.054	2.32	32.7	56.0	1.53	576	2.37	2.62	10.60	68.8	0.049	19.70	
40417559	22.0	0.32	3.10	0.056	2.49	30.4	59.4	1.97	820	1.80	2.24	6.43	76.7	0.076	15.45	
40417560	24.3	0.39	2.03	0.095	1.34	25.5	16.1	2.68	1265	0.94	2.65	10.35	57.2	0.193	8.00	
40417561	21.4	0.33	2.94	0.032	2.38	25.9	52.0	1.58	705	3.64	2.64	6.19	58.4	0.071	15.90	
40417562	21.1	0.26	3.72	0.035	2.25	55.6	37.9	1.79	506	0.71	2.79	7.60	57.8	0.167	19.30	
40417563	22.2	0.24	3.27	0.018	4.03	31.2	33.2	0.91	374	0.70	3.31	6.65	23.7	0.264	33.0	
40417564	22.6	0.32	4.45	0.039	1.79	59.0	57.8	1.90	578	0.72	3.21	7.78	54.6	0.171	15.35	
40417565	20.8	0.20	3.78	0.033	1.83	52.4	46.5	1.58	459	0.74	3.34	7.60	42.1	0.160	13.15	
40417566	20.4	0.23	4.89	0.018	1.70	56.6	46.5	1.35	420	0.92	3.32	9.20	33.3	0.157	21.2	
40417567	20.9	0.26	4.62	0.025	1.82	67.0	50.0	1.62	502	1.02	3.21	8.81	40.7	0.171	17.50	
40417568	20.8	0.23	8.02	0.017	3.80	55.2	17.6	0.44	223	0.77	3.96	4.60	6.84	0.026	34.3	
40417569	22.6	0.23	3.94	0.034	1.77	54.6	47.3	1.43	499	1.12	3.42	7.77	39.2	0.138	13.60	
40417570	21.2	0.21	2.58	0.060	0.90	12.35	42.3	4.57	1085	3.07	1.630	7.95	725	0.070	6.01	
40417571	20.3	0.24	4.31	0.034	1.81	66.0	54.2	1.83	566	0.73	3.25	7.51	59.1	0.178	10.45	
40417572	22.7	0.27	4.55	0.032	2.09	65.0	55.8	1.88	474	0.69	3.19	8.05	43.5	0.197	8.61	
40417573	19.10	0.23	4.17	0.028	1.89	66.3	41.4	1.31	391	0.75	3.86	9.43	34.3	0.156	14.25	
40417574	22.5	0.27	4.65	0.028	1.87	66.2	58.7	1.62	545	0.82	3.42	9.58	43.5	0.172	16.15	
40417575	15.90	0.12	1.695	0.014	4.97	10.30	7.4	0.13	154.0	3.21	2.70	6.03	2.04	0.023	65.3	
40417576	20.4	0.19	3.22	0.043	2.18	27.6	75.4	1.88	673	1.57	2.54	6.47	71.9	0.070	14.65	
40417577	18.25	0.14	2.24	0.019	1.37	10.95	42.2	0.70	274	1.03	4.00	6.09	15.25	0.040	27.4	
40417578	14.95	0.17	3.49	0.014	5.42	25.4	18.5	0.17	134.5	1.57	2.25	4.02	2.46	0.013	65.5	
40417579	14.40	0.21	2.68	0.012	4.77	35.1	13.2	0.19	148.5	1.27	2.05	4.54	1.60	0.015	53.0	
40417580	14.45	0.19	2.76	0.017	4.82	33.9	13.6	0.20	158.5	1.42	2.13	4.82	1.87	0.016	51.6	







ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm 0.008	Y ppm 0.01	Zn ppm 0.2	Zr ppm 0.1	Au ppm 0.0004	Pt ppm 0.004	Pd ppm 0.002	Au ppb 1	Pt ppb 0.1	Pd ppb 0.2
40417541		0.654	12.05	85.9	116.5	0.0033	0.006	0.009	<1	0.8	0.3
40417542		0.394	11.70	80.3	136.5	0.0029	0.012	<0.002	<1	0.8	0.2
40417543		0.621	10.70	72.3	133.5	0.0036	0.009	0.005	1	1.2	2.3
40417544		0.516	11.60	83.3	138.0	0.0020	0.007	0.011	<1	0.7	<0.2
40417545		0.599	12.80	87.6	122.0	0.0031	0.011	0.004	<1	1.0	0.4
40417546		0.676	12.75	91.2	117.5	0.0022	0.012	<0.002	<1	1.1	0.4
40417547		0.511	13.90	93.6	110.5	0.0030	0.005	<0.002	<1	1.6	0.9
40417548		0.618	11.95	78.3	105.5	0.0026	0.009	<0.002	<1	0.9	0.3
40417549		0.448	12.25	82.2	111.5	0.0022	0.005	<0.002	<1	1.0	0.5
40417550		0.480	12.05	81.1	116.5	0.0017	0.010	<0.002	<1	1.8	3.3
40417551		0.614	12.35	84.5	121.0	0.0026	0.010	<0.002	<1	0.8	0.2
40417552		0.584	10.40	78.5	141.0	0.0033	0.008	0.023	<1	0.7	0.2
40417553		0.433	11.65	83.0	124.5	0.0028	0.013	0.004	<1	0.9	0.4
40417554		0.504	11.30	83.6	125.5	0.0032	0.010	0.011	<1	0.9	0.2
40417555		0.232	11.95	42.7	308	0.0057	0.020	0.004	<1	<0.1	<0.2
40417556		0.423	8.98	67.5	109.0	0.0018	0.007	<0.002	<1	0.3	<0.2
40417557		0.564	13.25	94.1	117.5	0.0049	0.008	<0.002	<1	0.8	<0.2
40417558		0.633	10.10	112.5	169.5	0.0051	0.007	<0.002	<1	0.9	0.3
40417559		0.673	13.25	90.3	117.0	0.0029	0.010	<0.002	<1	0.8	0.2
40417560		0.265	46.9	126.5	69.0	0.0047	0.009	<0.002	<1	<0.1	<0.2
40417561		0.660	11.90	90.2	111.0	0.0039	0.005	0.012	<1	0.7	0.2
40417562		0.588	9.44	82.5	152.5	0.0019	0.009	0.010	<1	<0.1	<0.2
40417563		0.280	18.05	64.3	131.5	0.0018	0.013	0.013	<1	<0.1	<0.2
40417564		0.408	9.12	84.8	182.0	0.0036	0.016	<0.002	<1	<0.1	<0.2
40417565		0.568	8.50	80.1	163.5	0.0030	0.005	<0.002	<1	<0.1	<0.2
40417566		0.462	9.45	65.0	221	0.0066	0.007	<0.002	3	<0.1	<0.2
40417567		0.458	9.99	64.5	204	0.0045	0.004	<0.002	1	<0.1	<0.2
40417568		0.213	7.92	27.5	255	0.0055	0.009	<0.002	<1	<0.1	<0.2
40417569		0.366	8.90	65.8	178.0	0.0033	0.004	<0.002	<1	<0.1	<0.2
40417570		0.300	20.5	113.5	106.0	0.0162	0.030	0.233	19	48.3	199.0
40417571		0.597	9.12	76.2	189.5	0.0037	0.007	<0.002	<1	<0.1	<0.2
40417572		0.908	10.15	81.3	202	0.0032	0.006	<0.002	7	<0.1	<0.2
40417573		0.648	11.65	67.2	181.5	0.0041	0.004	0.003	1	<0.1	<0.2
40417574		0.601	9.98	83.2	206	0.0028	0.005	<0.002	<1	<0.1	<0.2
40417575		0.555	20.7	21.4	35.6	<0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417576		0.568	12.20	88.3	126.0	0.0029	0.006	<0.002	<1	0.7	0.2
40417577		0.477	8.06	42.8	76.4	0.0014	0.004	0.002	<1	<0.1	<0.2
40417578		0.295	12.85	21.7	111.0	0.0019	<0.004	<0.002	<1	<0.1	<0.2
40417579		0.348	15.10	20.3	82.5	0.0014	<0.004	<0.002	<1	<0.1	<0.2
40417580		0.388	13.80	22.5	88.1	0.0018	<0.004	<0.002	<1	<0.1	<0.2



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417581		5.50	0.073	6.87	0.26	550	0.84	0.172	0.54	0.026	96.2	1.395	17.0	3.11	1.42	1.300
40417582		5.27	0.052	6.85	0.24	650	0.76	0.106	0.43	0.023	39.5	0.938	12.4	2.70	0.84	0.860
40417583		5.20	0.081	6.71	0.23	580	0.78	0.192	0.48	0.017	52.9	1.160	13.4	2.79	0.88	1.120
40417584		4.82	0.073	6.91	0.27	540	0.95	0.149	0.53	0.017	78.7	0.970	11.4	2.93	0.71	0.880
40417585		5.04	0.093	7.07	0.26	530	1.17	0.537	0.69	0.021	102.0	0.874	12.4	3.17	0.96	0.970
40417586		3.16	0.093	7.09	0.10	600	0.91	0.116	0.67	0.023	98.4	1.110	10.8	3.08	0.95	1.010
40417587		3.95	0.186	7.67	0.56	630	1.35	0.188	2.60	0.086	63.2	21.2	152.0	7.48	41.1	4.19
40417588		3.45	0.116	7.84	0.67	590	1.25	0.233	2.36	0.094	59.6	25.9	148.5	5.94	57.4	5.07
40417589		2.71	0.113	7.46	0.09	660	1.45	0.208	2.57	0.089	67.8	23.1	160.0	5.50	50.4	4.37
40417590		0.69	0.040	9.12	0.97	520	2.32	0.040	5.54	0.128	80.8	31.2	44.2	1.63	40.8	7.79
40417591		2.52	0.090	7.61	0.54	710	1.21	0.197	2.73	0.096	57.0	21.9	117.0	4.07	52.3	4.70
40417592		3.63	0.096	7.80	0.48	580	1.39	0.169	2.10	0.080	58.4	22.2	111.0	4.76	51.7	4.94
40417593		3.89	0.080	7.53	0.51	590	1.11	0.214	2.62	0.091	64.0	24.6	113.5	4.77	52.7	5.19
40417594		3.77	0.102	7.55	0.63	730	1.21	0.208	3.53	0.100	96.5	29.8	164.5	3.91	63.0	5.59
40417595		3.41	0.088	7.62	0.37	680	1.41	0.264	3.05	0.108	79.1	27.5	183.5	8.21	47.6	5.88
40417596		3.28	0.094	7.66	0.78	750	1.48	0.216	2.74	0.040	77.2	21.6	120.0	4.84	53.9	4.77
40417597		3.69	0.052	7.61	0.51	510	1.49	0.156	0.98	0.027	55.4	2.28	16.7	2.19	17.90	3.87
40417598		3.72	0.140	7.72	0.42	770	1.45	0.194	3.54	0.080	85.0	28.1	229	5.07	64.4	5.05
40417599		3.54	0.086	7.95	0.32	630	1.32	0.134	2.37	0.075	63.6	21.5	112.0	4.18	47.4	4.91
40417600		0.17	0.468	9.07	6.00	344	0.62	0.153	6.55	0.275	29.8	65.5	1715	2.58	1105	8.64
40417601		3.60	0.092	7.77	0.27	640	1.56	0.128	2.40	0.061	75.9	19.90	83.8	4.88	44.0	4.67
40417602		3.51	0.074	7.85	0.66	810	1.61	0.135	1.88	0.042	80.6	18.50	83.4	3.02	36.0	4.01
40417603		3.60	0.076	7.72	0.50	720	1.35	0.168	2.11	0.056	68.4	18.25	100.5	3.51	40.0	4.00
40417604		3.76	0.101	7.93	0.47	630	1.35	0.207	2.34	0.089	64.7	24.3	115.5	5.41	55.8	5.00
40417605		3.75	0.093	7.71	0.59	830	1.76	0.161	2.25	0.065	89.3	15.45	65.3	3.96	29.8	3.46
40417606		3.86	0.095	8.05	0.73	530	1.45	0.186	2.53	0.106	53.4	25.2	153.0	5.18	53.5	5.02
40417607		4.30	0.045	6.60	0.31	365	1.30	0.100	0.84	0.027	45.7	1.490	15.3	1.70	1.46	1.080
40417608		0.51	0.062	7.73	0.64	880	1.63	0.115	1.93	0.038	88.4	19.30	97.2	4.18	26.8	4.08
40417609		1.17	0.090	7.54	0.37	570	1.25	0.154	2.19	0.091	63.3	23.2	144.0	3.88	51.2	4.56
40417610		1.23	0.100	7.65	0.36	600	1.28	0.150	2.21	0.085	62.1	22.6	144.5	4.08	50.9	4.60
40417611		3.69	0.105	7.90	0.54	560	1.34	0.196	2.51	0.111	60.7	22.5	100.0	2.63	52.2	5.10
40417612		3.92	0.246	7.50	1.28	610	1.32	0.125	2.27	0.087	53.1	26.4	144.5	2.76	58.3	5.23
40417613		3.63	0.082	7.59	1.16	640	1.42	0.163	2.23	0.067	62.1	24.7	126.0	2.73	51.6	4.85
40417614		3.23	0.034	7.14	0.40	570	0.94	0.064	0.77	0.012	48.0	2.02	14.2	1.18	6.27	1.200
40417615		2.67	0.071	7.50	0.56	610	1.41	0.102	1.03	0.034	50.0	6.87	43.3	1.84	22.9	1.910
40417616		2.90	0.126	7.40	0.52	820	2.10	0.240	2.97	0.085	96.5	24.9	129.0	3.46	51.9	4.67
40417617		1.96	0.089	7.47	0.34	780	2.19	0.143	1.57	0.073	57.7	13.30	72.0	3.93	26.2	2.91
40417618		1.54	0.060	7.57	0.34	760	2.71	0.079	1.64	0.033	29.8	7.29	32.6	3.26	4.49	1.890
40417619		3.52	0.083	7.43	0.20	650	2.21	0.053	1.50	0.022	24.2	6.36	33.4	2.52	2.78	1.780
40417620		0.62	0.031	8.52	0.81	500	1.83	0.020	5.48	0.136	62.2	38.6	54.2	0.92	40.4	8.65



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 6 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417581		14.45	0.21	3.09	0.015	5.09	40.4	18.0	0.17	152.5	1.66	2.15	4.76	1.93	0.016	60.4
40417582		12.75	0.12	1.060	0.013	5.29	15.15	8.6	0.12	101.5	1.38	2.07	2.96	0.91	0.018	59.7
40417583		13.75	0.14	1.250	0.015	4.98	22.1	15.5	0.15	131.0	1.36	2.06	3.96	1.47	0.011	54.1
40417584		14.60	0.19	1.780	0.015	4.97	32.1	15.4	0.12	112.5	1.14	2.19	3.49	1.09	0.014	56.0
40417585		15.10	0.22	2.30	0.011	5.04	42.5	16.6	0.10	125.0	1.24	2.46	3.48	1.20	0.017	55.8
40417586		14.90	0.20	2.23	0.016	5.08	41.6	20.3	0.13	161.0	1.09	2.38	4.72	1.45	0.015	55.3
40417587		20.6	0.22	4.37	0.037	2.36	28.7	52.7	1.88	581	1.60	2.48	7.52	82.3	0.067	34.6
40417588		20.8	0.24	3.36	0.046	2.00	26.4	67.6	1.86	716	17.10	2.50	7.69	81.0	0.063	15.30
40417589		20.2	0.25	2.99	0.037	1.94	31.4	49.5	1.95	638	1.93	2.36	6.65	76.5	0.074	13.90
40417590		26.5	0.36	2.25	0.120	1.53	30.3	17.2	2.35	1150	1.35	2.67	14.90	39.1	0.180	9.39
40417591		19.05	0.23	3.05	0.042	1.84	26.1	49.1	1.73	687	1.65	2.37	6.25	56.0	0.064	15.05
40417592		20.6	0.22	3.10	0.039	1.92	27.0	64.9	1.67	622	1.87	2.73	6.90	63.6	0.058	15.75
40417593		19.95	0.26	2.91	0.050	1.95	27.9	59.3	1.96	748	1.48	2.28	6.19	62.8	0.091	13.60
40417594		20.1	0.28	3.04	0.048	1.74	42.5	47.8	2.55	749	1.46	2.32	6.74	116.5	0.125	14.15
40417595		19.25	0.26	3.18	0.046	2.12	34.6	62.2	2.64	780	1.55	2.41	6.78	112.0	0.100	15.10
40417596		19.35	0.24	3.31	0.042	2.49	35.0	62.2	1.90	602	2.20	2.68	6.21	73.7	0.088	9.65
40417597		24.8	0.20	4.27	0.030	4.46	23.5	10.8	0.19	290	1.24	2.87	2.08	4.03	0.081	39.6
40417598		19.95	0.26	3.35	0.040	2.08	38.0	52.5	3.39	732	1.20	2.58	6.48	151.5	0.121	12.75
40417599		21.8	0.25	3.16	0.043	2.16	29.0	45.8	1.69	650	1.83	2.88	6.71	65.0	0.068	15.75
40417600		20.7	0.24	2.54	0.069	0.86	11.55	41.2	4.38	1050	3.06	1.565	7.79	708	0.067	6.04
40417601		21.2	0.24	3.42	0.044	2.27	36.2	51.5	1.66	618	2.32	2.68	8.78	56.8	0.090	19.20
40417602		21.5	0.23	4.07	0.031	2.18	41.7	56.6	1.61	494	2.15	2.86	7.57	54.8	0.076	15.35
40417603		21.5	0.23	3.52	0.029	2.12	34.0	52.9	1.49	536	2.11	2.71	6.87	53.6	0.066	16.70
40417604		20.6	0.26	3.14	0.037	2.20	31.5	59.1	1.81	712	2.92	2.60	6.94	72.5	0.082	15.05
40417605		20.4	0.26	3.66	0.032	2.76	42.4	42.5	1.37	514	1.22	2.51	6.66	45.9	0.097	24.5
40417606		21.2	0.25	2.98	0.042	1.88	25.3	53.3	1.83	770	1.93	2.74	6.53	82.2	0.063	19.45
40417607		16.35	0.17	1.155	0.007	3.55	20.2	11.0	0.18	158.5	1.31	2.75	4.03	3.34	0.011	55.9
40417608		23.2	0.25	3.95	0.032	1.90	46.7	58.8	1.82	462	2.70	2.67	8.47	68.2	0.072	20.4
40417609		19.40	0.25	3.15	0.035	2.00	30.8	59.5	1.79	704	2.06	2.56	6.66	70.0	0.064	15.10
40417610		20.3	0.26	3.24	0.036	2.08	30.1	60.1	1.80	689	2.03	2.60	6.75	68.5	0.065	15.70
40417611		22.6	0.28	3.44	0.045	1.92	28.7	52.9	1.89	801	1.47	2.57	7.67	50.6	0.074	18.40
40417612		20.1	0.26	2.88	0.036	2.04	25.8	56.6	1.92	799	1.49	2.15	5.67	79.4	0.059	15.45
40417613		21.9	0.26	3.03	0.044	2.09	28.9	57.8	1.88	671	1.98	2.41	5.90	70.6	0.074	14.40
40417614		18.25	0.18	3.53	0.014	4.35	24.3	9.9	0.23	128.0	1.08	2.89	5.24	4.27	0.015	37.1
40417615		19.35	0.18	2.77	0.021	3.85	24.6	22.1	0.53	231	1.54	2.78	5.77	19.10	0.027	37.2
40417616		21.5	0.31	3.22	0.034	1.93	46.2	40.8	2.22	709	1.16	2.45	8.14	102.5	0.123	17.75
40417617		20.4	0.23	3.28	0.029	2.74	29.7	37.5	1.02	440	1.28	2.84	8.01	38.3	0.043	24.5
40417618		24.1	0.17	2.72	0.015	2.56	13.40	37.5	0.77	379	0.81	3.41	6.60	15.35	0.059	19.45
40417619		22.8	0.16	2.35	0.016	2.54	11.05	29.2	0.63	310	1.14	3.48	5.25	13.55	0.047	18.05
40417620		26.5	0.36	1.475	0.111	1.24	26.5	14.6	2.73	1155	1.16	2.50	9.43	56.6	0.222	6.81

\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - C  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
40417581		130.0	<0.0004	0.01	0.05	3.13	0.021	1.79	194.0	0.34	<0.005	35.7	0.057	0.701	13.00	3.9
40417582		119.0	<0.0004	0.01	0.04	2.02	0.013	1.30	195.0	0.25	<0.005	13.55	0.035	0.729	15.55	2.2
40417583		118.5	<0.0004	<0.01	0.04	2.53	0.013	1.43	194.5	0.26	<0.005	19.40	0.051	0.704	13.45	3.4
40417584		119.0	<0.0004	0.01	0.03	2.51	0.024	1.57	196.0	0.35	<0.005	29.2	0.043	0.718	8.84	3.3
40417585		133.0	<0.0004	<0.01	0.03	2.13	0.026	1.35	205	0.31	<0.005	39.3	0.041	0.684	13.35	3.2
40417586		126.0	<0.0004	0.01	0.03	2.60	0.029	1.05	209	0.25	<0.005	36.2	0.054	0.709	10.50	3.9
40417587		108.0	0.0006	0.16	0.08	14.30	0.123	1.60	449	0.57	0.024	10.45	0.322	0.677	32.9	95.8
40417588		85.8	0.0037	0.27	0.05	18.35	0.188	1.36	366	0.66	0.038	7.67	0.367	0.574	3.32	124.0
40417589		89.0	0.0008	0.25	0.05	16.60	0.157	1.41	482	0.54	0.028	7.52	0.329	0.565	2.52	103.0
40417590		79.9	0.0014	0.19	0.08	29.8	0.122	2.25	550	0.85	0.029	3.62	0.921	0.367	2.12	191.5
40417591		67.2	0.0006	0.23	0.07	16.50	0.180	1.04	411	0.46	0.031	6.92	0.340	0.455	2.12	115.5
40417592		76.6	0.0006	0.19	0.07	15.80	0.155	1.30	351	0.58	0.030	8.48	0.350	0.496	2.49	115.5
40417593		82.7	0.0007	0.21	0.08	18.85	0.202	1.08	345	0.48	0.027	7.04	0.370	0.507	2.06	127.0
40417594		66.5	0.0006	0.33	0.06	18.95	0.194	1.33	716	0.47	0.030	7.61	0.448	0.419	1.85	129.0
40417595		88.3	0.0008	0.24	0.08	18.40	0.157	1.34	550	0.47	0.030	7.48	0.402	0.601	2.03	127.0
40417596		112.0	0.0007	0.18	0.09	14.90	0.121	1.23	458	0.40	0.021	7.69	0.324	0.661	1.98	103.5
40417597		118.0	<0.0004	0.15	0.04	2.35	0.071	2.66	252	0.24	0.007	16.35	0.086	0.620	4.85	30.1
40417598		86.8	0.0004	0.30	0.04	15.80	0.141	1.68	767	0.42	0.015	6.96	0.369	0.567	2.24	111.5
40417599		89.5	0.0006	0.22	0.03	16.70	0.170	1.80	433	0.52	0.027	7.74	0.352	0.545	2.14	108.5
40417600		26.3	0.0030	0.34	0.53	21.3	0.930	1.68	421	0.48	0.068	1.245	0.818	0.506	0.33	175.5
40417601		113.5	0.0006	0.23	0.04	14.10	0.140	2.99	499	0.63	0.024	12.95	0.337	0.697	2.71	102.0
40417602		101.5	0.0007	0.17	0.06	11.60	0.118	1.99	433	0.57	0.022	14.20	0.307	0.570	4.26	89.7
40417603		85.3	0.0006	0.20	0.06	12.80	0.129	1.32	466	0.49	0.030	9.68	0.308	0.490	4.37	88.7
40417604		93.3	0.0013	0.26	0.06	16.05	0.187	1.29	455	0.52	0.035	7.36	0.371	0.564	2.50	118.5
40417605		94.3	0.0004	0.21	0.04	11.05	0.076	1.18	732	0.43	0.014	12.00	0.308	0.555	4.01	81.0
40417606		79.8	0.0010	0.23	0.06	17.45	0.218	1.57	424	0.44	0.034	7.68	0.350	0.507	11.40	119.0
40417607		93.3	<0.0004	0.01	0.04	2.38	0.026	1.08	211	0.29	<0.005	19.00	0.050	0.482	49.9	5.2
40417608		101.0	0.0006	0.09	0.06	12.70	0.077	1.97	472	0.66	0.017	16.70	0.303	0.574	4.43	90.9
40417609		99.0	0.0007	0.20	0.04	15.00	0.175	1.36	389	0.48	0.036	8.36	0.334	0.603	2.56	109.0
40417610		99.8	0.0006	0.20	0.04	15.65	0.151	1.44	393	0.50	0.032	8.33	0.341	0.622	3.25	107.0
40417611		93.8	0.0007	0.27	0.05	18.10	0.143	1.76	398	0.51	0.038	8.88	0.361	0.547	6.82	120.5
40417612		96.3	0.0010	0.27	0.08	18.85	0.156	1.11	330	0.40	0.033	7.08	0.332	0.554	3.08	126.0
40417613		97.8	0.0009	0.23	0.09	16.55	0.175	1.36	414	0.42	0.029	6.65	0.324	0.553	2.04	116.0
40417614		112.0	<0.0004	0.03	0.03	2.96	0.034	1.53	205	0.27	0.005	17.05	0.072	0.561	4.32	10.6
40417615		108.5	<0.0004	0.13	0.05	5.16	0.069	1.68	282	0.44	0.013	15.15	0.119	0.539	4.40	30.5
40417616		84.3	0.0006	0.31	0.09	16.45	0.200	1.27	708	0.97	0.027	9.42	0.383	0.451	3.86	107.5
40417617		94.5	0.0006	0.18	0.05	9.23	0.122	1.59	379	0.80	0.019	12.15	0.221	0.451	7.92	64.0
40417618		92.2	<0.0004	0.02	0.02	5.44	0.014	2.76	559	0.42	<0.005	2.72	0.165	0.487	2.44	34.6
40417619		86.5	<0.0004	0.02	0.02	4.49	0.014	2.90	528	0.31	<0.005	2.51	0.137	0.469	1.43	28.7
40417620		59.9	0.0012	0.16	0.07	29.4	0.123	1.48	497	0.50	0.017	2.02	1.135	0.266	0.96	211

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

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

CERTIFICATE OF ANALYSIS TB22248099
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Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
	Analyte	W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417581		0.379	8.23	27.6	97.1	0.0020	<0.004	<0.002	<1	<0.1	<0.2
40417582		0.378	8.74	18.1	31.6	0.0009	<0.004	<0.002	<1	<0.1	0.8
40417583		0.338	3.32	23.1	40.5	0.0011	0.005	<0.002	<1	<0.1	<0.2
40417584		0.568	4.85	19.0	54.2	0.0018	<0.004	<0.002	<1	<0.1	<0.2
40417585		0.500	5.56	18.0	72.1	0.0016	<0.004	<0.002	<1	<0.1	<0.2
40417586		0.460	5.17	21.3	69.3	0.0009	<0.004	<0.002	<1	<0.1	<0.2
40417587		0.882	11.50	83.8	153.5	0.0045	0.006	<0.002	<1	1.6	3.2
40417588		0.730	13.20	92.5	129.5	0.0032	0.005	<0.002	<1	1.0	0.6
40417589		0.510	11.65	79.9	118.5	0.0026	0.008	0.006	<1	0.8	0.5
40417590		0.389	52.2	127.5	81.8	0.0040	0.006	<0.002	<1	<0.1	<0.2
40417591		0.471	12.60	81.3	123.5	0.0026	0.008	<0.002	<1	1.4	2.3
40417592		0.589	12.55	85.3	123.0	0.0035	0.005	<0.002	<1	1.1	0.2
40417593		0.518	14.05	87.1	115.5	0.0024	0.005	<0.002	<1	0.7	<0.2
40417594		0.777	15.40	95.2	122.0	0.0026	0.006	<0.002	<1	1.0	0.3
40417595		0.637	13.45	90.7	126.0	0.0024	0.004	<0.002	<1	0.9	0.2
40417596		0.864	12.15	84.0	135.0	0.0022	0.005	<0.002	<1	0.8	<0.2
40417597		0.216	13.05	34.8	134.5	0.0036	0.008	<0.002	<1	<0.1	<0.2
40417598		0.734	11.50	89.1	139.5	0.0036	0.004	<0.002	<1	0.6	<0.2
40417599		0.586	12.25	87.5	122.5	0.0029	0.006	<0.002	<1	0.6	<0.2
40417600		0.277	20.1	111.5	104.0	0.0165	0.024	0.227	19	47.4	198.0
40417601		0.546	12.70	91.7	138.0	0.0022	0.005	0.002	<1	0.4	<0.2
40417602		0.529	11.30	76.4	175.0	0.0034	0.010	0.002	<1	0.4	<0.2
40417603		0.491	10.75	75.7	141.0	0.0034	0.005	<0.002	<1	0.5	<0.2
40417604		0.607	13.25	89.5	130.5	0.0035	0.009	0.003	<1	0.9	0.3
40417605		0.363	9.83	69.0	148.5	0.0031	0.005	0.004	<1	0.2	<0.2
40417606		0.528	12.10	88.3	121.0	0.0030	0.005	<0.002	<1	1.8	0.7
40417607		0.241	4.11	19.8	35.1	0.0007	0.004	<0.002	<1	0.2	0.9
40417608		0.461	9.78	82.2	167.5	0.0031	0.007	<0.002	<1	0.2	<0.2
40417609		0.565	12.75	85.7	128.5	0.0024	0.008	<0.002	<1	1.3	0.7
40417610		0.570	12.25	86.1	131.5	0.0031	0.007	<0.002	<1	1.1	0.5
40417611		0.556	13.85	92.3	132.5	0.0039	0.007	<0.002	<1	0.5	<0.2
40417612		0.842	12.95	98.3	118.5	0.0023	0.007	0.005	<1	1.3	0.7
40417613		0.834	12.35	91.6	122.5	0.0029	0.006	<0.002	<1	0.8	0.2
40417614		0.217	4.86	20.5	117.5	0.0025	0.006	<0.002	<1	<0.1	<0.2
40417615		0.256	6.37	40.8	100.5	0.0010	<0.004	<0.002	<1	<0.1	<0.2
40417616		0.715	13.85	81.8	130.5	0.0038	0.009	0.004	<1	0.7	0.6
40417617		0.473	9.59	58.7	119.0	0.0042	0.008	0.002	<1	0.3	0.3
40417618		0.241	5.77	61.7	110.5	0.0023	0.005	<0.002	<1	<0.1	<0.2
40417619		0.203	4.55	51.8	94.4	0.0020	0.004	<0.002	<1	<0.1	<0.2
40417620		0.203	44.7	129.5	50.1	0.0028	0.004	<0.002	<1	<0.1	<0.2

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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 THUNDER BAY ON P7E 4X4

Page: 7 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417621		3.34	0.063	7.48	0.26	720	1.94	0.133	1.20	0.022	32.2	4.27	22.4	2.05	10.10	1.380
40417622		3.51	0.073	7.70	0.20	670	2.07	0.054	1.59	0.030	41.5	6.12	32.5	3.03	10.10	1.760
40417623		3.50	0.088	7.92	0.36	510	1.94	0.092	1.47	0.036	70.0	5.98	25.7	4.68	7.22	2.16
40417624		3.53	0.135	7.88	0.33	640	1.84	0.079	1.80	0.035	41.0	6.94	32.0	3.61	10.05	2.07
40417625		3.53	0.104	7.86	0.36	384	1.96	0.088	1.39	0.036	88.4	2.03	20.5	2.05	4.81	2.09
40417626		2.77	0.091	7.82	0.33	500	1.76	0.065	1.82	0.040	57.0	6.58	32.7	3.58	10.40	2.13
40417627		3.01	0.889	7.62	0.20	470	2.24	0.070	1.70	0.039	42.9	6.56	33.3	3.31	11.45	1.960
40417628		4.16	0.177	6.88	0.27	630	1.07	0.105	0.72	0.020	33.0	2.13	14.8	2.54	7.59	1.020
40417629		4.12	0.121	7.43	0.68	570	1.39	0.192	2.32	0.069	55.1	19.35	114.5	3.85	45.8	4.12
40417630		0.17	0.486	8.84	4.68	339	0.60	0.142	6.51	0.250	28.1	68.7	1735	2.54	1095	8.64
40417631		1.06	0.259	6.97	0.44	540	0.98	0.144	0.78	0.056	38.5	2.62	16.8	1.45	24.2	0.940
40417632		3.21	0.262	7.66	0.50	540	1.21	0.168	2.31	0.104	54.8	24.7	130.5	3.61	53.8	5.00
40417633		1.22	0.074	6.09	0.28	470	1.37	0.072	0.74	0.027	57.0	2.29	19.8	2.09	7.26	1.030
40417634		3.54	0.138	7.86	0.28	580	1.29	0.207	2.57	0.099	61.6	27.2	141.5	4.05	56.6	5.04
40417635		3.41	0.098	7.57	0.35	600	1.20	0.207	2.51	0.090	50.0	25.1	207	4.68	55.2	4.69
40417636		3.49	0.086	8.14	0.32	570	1.28	0.175	2.16	0.093	56.2	28.2	151.0	5.57	55.1	5.24
40417637		3.71	0.096	8.26	0.49	560	1.37	0.222	2.22	0.103	57.7	30.8	200	5.61	64.7	5.51
40417638		3.84	0.082	7.99	0.17	540	1.28	0.216	2.15	0.093	51.0	26.1	136.5	4.98	58.5	5.01

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

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 7 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
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 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417621		21.2	0.19	2.53	0.012	3.43	15.55	21.2	0.43	226	1.08	3.25	4.23	8.46	0.040	23.8
40417622		22.9	0.19	2.71	0.023	2.55	19.65	36.2	0.62	284	1.11	3.54	5.88	12.55	0.045	24.1
40417623		24.5	0.22	3.07	0.030	3.16	34.3	43.3	0.58	313	0.86	3.42	8.67	12.10	0.046	33.5
40417624		22.6	0.19	2.87	0.028	2.04	18.60	46.9	0.69	316	0.94	3.64	5.46	14.10	0.049	22.0
40417625		24.9	0.25	2.80	0.016	3.22	39.4	11.6	0.11	174.5	0.79	3.71	3.03	5.48	0.013	41.5
40417626		23.5	0.21	3.15	0.026	1.70	26.2	44.1	0.63	292	1.21	3.76	6.23	14.10	0.036	22.0
40417627		23.6	0.19	2.80	0.017	2.11	20.3	43.0	0.63	273	1.22	3.61	6.02	14.15	0.043	27.4
40417628		16.50	0.18	4.14	0.011	4.82	14.30	14.3	0.17	132.5	1.05	2.39	4.22	5.14	0.012	45.3
40417629		19.75	0.24	2.80	0.031	1.75	27.4	47.0	1.51	615	1.55	2.65	5.93	52.6	0.062	13.90
40417630		21.9	0.32	2.56	0.063	0.85	11.50	40.4	4.31	1050	3.02	1.555	8.00	700	0.067	6.01
40417631		16.95	0.20	2.78	0.007	4.69	17.10	6.7	0.18	108.5	1.05	2.66	2.10	5.82	0.014	44.2
40417632		20.2	0.27	2.83	0.041	1.98	26.4	47.6	1.72	755	1.47	2.51	6.22	69.0	0.057	13.60
40417633		14.60	0.21	2.77	0.014	3.78	25.8	8.6	0.20	151.0	1.32	2.20	4.93	5.01	0.010	41.8
40417634		20.5	0.27	3.03	0.045	2.06	29.0	39.2	2.07	794	1.57	2.66	6.48	80.6	0.075	13.25
40417635		19.55	0.28	3.11	0.038	1.90	24.4	38.6	2.03	697	1.74	2.63	6.20	85.7	0.065	13.90
40417636		21.1	0.29	2.95	0.045	2.28	27.0	47.1	1.95	721	2.42	2.70	7.01	90.3	0.066	15.70
40417637		21.5	0.09	3.20	0.053	2.17	26.3	52.7	2.36	774	1.82	2.40	6.85	105.0	0.072	13.95
40417638		20.8	0.15	2.92	0.044	1.90	22.6	50.7	1.75	728	2.02	2.55	6.56	79.4	0.061	13.65



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 7 - C  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
 Account: RTECILHR

Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417621		98.0	<0.0004	0.03	0.03	3.33	0.025	2.26	440	0.26	<0.005	6.37	0.096	0.514	2.66	18.6
40417622		96.4	<0.0004	0.05	0.02	5.14	0.012	2.59	509	0.49	<0.005	6.24	0.149	0.537	2.71	29.8
40417623		123.5	<0.0004	0.04	0.02	6.26	0.010	3.96	380	0.55	<0.005	18.15	0.155	0.665	3.41	24.2
40417624		87.5	<0.0004	0.05	0.04	5.38	0.016	2.23	578	0.52	<0.005	4.97	0.160	0.508	3.61	32.8
40417625		84.2	<0.0004	0.02	0.02	1.98	0.041	1.80	288	0.25	<0.005	33.5	0.053	0.444	5.24	17.0
40417626		83.4	<0.0004	0.05	0.03	5.54	0.023	2.34	508	0.39	<0.005	11.75	0.161	0.487	2.15	30.3
40417627		90.8	<0.0004	0.05	0.02	5.11	0.012	3.12	491	0.58	<0.005	7.16	0.155	0.527	4.32	31.3
40417628		130.5	<0.0004	0.04	0.03	2.59	0.021	1.65	239	0.29	<0.005	10.35	0.051	0.652	6.28	6.6
40417629		82.4	0.0006	0.23	0.06	13.40	0.175	1.28	435	0.48	0.025	6.93	0.308	0.470	2.63	95.4
40417630		23.1	0.0029	0.33	0.51	21.2	0.986	1.80	418	0.48	0.060	1.165	0.812	0.494	0.31	177.5
40417631		106.5	<0.0004	0.10	0.04	1.66	0.063	0.66	235	0.23	0.010	10.90	0.034	0.539	6.63	9.2
40417632		91.7	0.0007	0.28	0.07	17.15	0.188	1.39	387	0.45	0.033	7.28	0.347	0.521	2.13	119.0
40417633		100.0	<0.0004	0.03	0.04	2.65	0.025	1.44	198.0	0.61	<0.005	19.90	0.052	0.494	10.55	8.4
40417634		87.1	0.0017	0.42	0.06	17.90	0.367	1.08	455	0.46	0.038	6.81	0.375	0.476	1.93	128.0
40417635		68.8	0.0015	0.26	0.06	17.20	0.180	1.06	355	0.46	0.032	6.23	0.352	0.436	2.80	117.0
40417636		104.0	0.0012	0.23	0.04	18.85	0.175	1.35	399	0.50	0.034	7.74	0.380	0.589	4.34	133.5
40417637		92.8	0.0011	0.22	0.04	19.10	0.201	1.29	412	0.49	0.042	6.75	0.384	0.553	2.09	138.0
40417638		75.6	0.0014	0.22	0.03	16.35	0.124	1.07	394	0.57	0.041	7.12	0.356	0.508	2.11	123.5





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 7 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2022  
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Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417621		0.145	4.67	36.8	96.4	0.0024	0.004	0.002	<1	<0.1	<0.2
40417622		0.289	5.75	52.6	109.0	0.0015	0.007	0.006	<1	<0.1	<0.2
40417623		0.302	9.00	63.4	122.0	0.0022	0.004	<0.002	<1	<0.1	<0.2
40417624		0.314	6.30	56.6	118.5	0.0024	0.005	<0.002	<1	<0.1	<0.2
40417625		0.195	6.40	37.4	82.1	0.0020	0.004	<0.002	<1	<0.1	<0.2
40417626		0.360	5.22	58.0	123.5	0.0029	<0.004	0.003	<1	<0.1	<0.2
40417627		4.37	5.86	55.8	110.0	0.0021	0.005	<0.002	<1	<0.1	<0.2
40417628		0.663	3.50	22.4	127.0	0.0027	0.005	<0.002	<1	<0.1	<0.2
40417629		0.708	12.05	78.0	113.0	0.0019	0.008	0.004	<1	0.4	0.6
40417630		0.261	19.65	107.5	107.0	0.0140	0.022	0.189	21	35.9	238
40417631		0.725	4.13	14.9	73.0	0.0019	0.004	<0.002	<1	<0.1	<0.2
40417632		1.175	13.30	90.4	118.5	0.0025	0.008	<0.002	<1	1.1	1.2
40417633		0.318	4.92	20.4	85.5	0.0021	0.005	<0.002	<1	<0.1	<0.2
40417634		0.711	14.15	85.9	126.5	0.0028	0.005	0.005	1	1.1	1.1
40417635		0.507	12.60	78.6	122.0	0.0034	0.008	0.004	<1	1.1	1.4
40417636		0.582	13.70	88.8	119.5	0.0017	0.007	<0.002	<1	1.0	1.5
40417637		0.555	14.45	91.5	120.0	0.0023	0.009	<0.002	<1	1.4	1.8
40417638		0.641	12.65	86.8	109.0	0.0028	0.008	<0.002	<1	1.1	1.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 14-OCT-2022  
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Project: EB80003510

**CERTIFICATE OF ANALYSIS TB22248099**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Au, Pt &amp; Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g)            ME-MS61L</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ME-MS61L</td> <td style="width: 50%;">PGM-MS23L</td> </tr> </table>	ME-MS61L	PGM-MS23L										
ME-MS61L	PGM-MS23L												



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 1  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
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**CERTIFICATE TB22255241**

Project: EB80003512  
 P.O. No.: 3105220123  
 This report is for 212 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 8-SEP-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
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**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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:**   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 7 (A - D)  
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**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417639		0.60	0.076	9.20	1.24	530	2.24	0.050	5.54	0.130	73.3	34.0	48.4	1.33	42.0	7.92
40417640		2.06	0.088	7.77	0.57	670	1.12	0.200	3.02	0.105	54.3	25.6	117.5	2.90	53.3	5.59
40417641		1.52	0.086	7.77	0.33	720	1.10	0.199	3.24	0.114	55.1	25.2	107.5	2.77	52.3	5.53
40417642		5.16	0.089	7.82	0.29	570	0.99	0.157	2.83	0.123	46.0	30.2	163.5	4.10	70.3	5.84
40417643		5.37	0.073	7.71	0.82	630	1.22	0.176	2.43	0.088	52.4	21.4	122.0	3.96	48.9	4.52
40417644		2.85	0.078	7.68	0.61	610	1.42	0.148	2.68	0.089	56.7	18.20	119.0	4.37	37.2	4.14
40417645		2.50	0.074	7.04	0.30	500	1.14	0.135	0.89	0.026	26.1	3.20	12.8	2.44	19.95	1.120
40417646		3.36	0.065	7.55	0.51	378	1.66	0.205	1.24	0.037	29.7	3.15	14.0	3.48	13.35	1.460
40417647		4.95	0.067	7.34	0.18	340	1.76	0.182	1.25	0.045	29.5	2.27	14.7	2.57	10.15	1.130
40417648		4.22	0.054	7.98	0.45	710	2.46	0.128	2.27	0.055	47.9	8.85	45.2	2.70	14.40	2.61
40417649		5.04	0.078	7.76	0.66	680	1.52	0.196	2.69	0.072	63.4	22.2	140.0	3.53	45.0	4.36
40417650		0.17	0.496	8.95	4.90	347	0.62	0.146	6.64	0.275	26.9	66.5	1750	2.33	1155	8.37
40417651		5.02	0.078	7.62	0.53	690	1.22	0.185	2.41	0.098	58.8	24.0	155.5	3.90	52.3	4.80
40417652		5.54	0.096	8.12	0.51	640	1.38	0.163	2.39	0.085	74.8	22.8	136.5	4.62	45.9	4.79
40417653		5.52	0.083	8.01	0.02	590	1.19	0.151	2.36	0.096	54.9	23.9	138.5	4.22	54.0	5.14
40417654		2.46	0.093	7.92	0.03	490	1.31	0.088	1.64	0.080	61.8	20.6	104.5	5.90	45.6	4.44
40417655		1.17	0.056	7.63	0.23	303	1.65	0.095	1.16	0.039	48.5	7.35	53.7	5.10	14.30	2.81
40417656		5.37	0.100	7.93	0.06	650	1.34	0.185	2.26	0.089	58.0	22.4	130.5	4.36	49.2	4.51
40417657		5.49	0.084	7.78	0.16	890	1.36	0.143	2.09	0.073	64.0	17.00	102.5	3.88	42.4	3.66
40417658		3.92	0.084	7.81	0.27	720	1.30	0.201	2.59	0.123	71.6	23.7	113.5	4.66	51.5	4.85
40417659		3.01	0.027	6.88	0.40	520	0.89	0.101	0.57	0.008	56.4	1.430	12.8	2.01	5.94	0.930
40417660		0.62	0.034	8.63	0.57	570	1.82	0.023	5.05	0.104	57.9	32.7	44.1	1.43	33.4	7.25
40417661		3.07	0.033	6.73	0.32	460	1.19	0.074	0.68	0.017	55.5	1.650	12.8	2.96	1.28	1.000
40417662		3.81	0.081	7.57	0.22	600	1.58	0.200	2.20	0.091	73.2	16.05	82.1	4.86	34.8	3.66
40417663		5.32	0.073	7.84	0.22	700	1.33	0.143	2.11	0.112	55.0	20.7	130.0	4.69	44.4	4.24
40417664		5.27	0.087	7.75	0.35	670	1.55	0.158	1.91	0.075	84.5	13.60	67.7	4.76	32.9	3.20
40417665		5.28	0.103	7.84	0.22	880	1.49	0.158	2.48	0.071	85.6	20.0	103.5	4.82	47.5	4.45
40417666		1.87	0.037	6.73	0.23	540	1.09	0.066	0.82	0.020	56.3	3.37	23.8	2.65	7.14	1.430
40417667		5.13	0.107	7.82	0.25	680	1.53	0.120	1.94	0.064	83.3	17.35	90.8	6.25	44.0	3.99
40417668		5.38	0.094	7.47	0.23	700	1.28	0.126	2.26	0.056	72.1	20.5	112.5	4.90	46.5	4.42
40417669		1.61	0.090	7.61	0.36	580	1.38	0.128	2.82	0.073	56.8	21.8	173.0	4.00	42.2	4.32
40417670		1.93	0.094	7.61	0.23	600	1.37	0.127	2.85	0.080	55.8	23.8	189.0	4.11	45.7	4.51
40417671		4.70	0.103	7.38	0.27	880	1.75	0.092	1.32	0.039	127.0	5.28	19.6	2.95	39.1	2.01
40417672		4.37	0.045	6.68	0.28	520	0.80	0.147	0.61	0.011	45.4	2.01	16.3	2.85	1.68	1.470
40417673		4.46	0.066	7.11	0.13	450	1.14	0.124	0.84	0.024	46.1	2.76	22.2	3.11	7.01	1.390
40417674		3.36	0.091	7.96	0.31	620	1.48	0.117	2.06	0.057	67.1	14.60	74.8	4.69	37.0	3.94
40417675		4.18	0.088	7.84	0.19	570	1.31	0.170	2.22	0.086	68.2	19.75	110.5	5.29	51.6	4.87
40417676		1.05	0.045	7.00	0.12	580	0.90	0.106	0.67	0.024	45.3	3.05	24.1	3.39	9.15	1.400
40417677		2.47	0.084	7.76	0.48	720	1.31	0.140	2.43	0.075	81.4	19.50	113.0	5.03	47.5	4.27
40417678		5.66	0.076	8.11	0.10	640	1.20	0.185	2.33	0.097	57.4	25.1	163.0	4.73	55.6	5.12



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417639		25.0	0.32	2.49	0.113	1.41	30.5	16.5	2.55	1195	1.30	2.71	13.00	45.4	0.213	9.03
40417640		18.85	0.25	3.09	0.040	1.69	24.4	47.8	2.24	956	1.29	2.39	5.79	60.1	0.084	11.20
40417641		15.15	0.18	3.08	0.054	1.66	24.7	44.6	2.25	933	1.23	2.48	5.64	52.9	0.089	12.35
40417642		18.50	0.23	2.91	0.061	1.87	19.95	50.0	2.14	1055	2.00	2.28	5.85	86.5	0.063	11.10
40417643		16.35	0.19	2.90	0.053	1.93	23.9	47.7	1.61	717	1.17	2.47	5.67	61.6	0.061	15.15
40417644		18.60	0.24	3.07	0.046	1.71	26.0	48.4	1.61	670	1.25	2.58	5.93	56.3	0.064	16.05
40417645		16.55	0.14	2.65	0.025	4.30	11.65	19.1	0.21	137.0	0.63	2.68	3.95	5.57	0.018	42.9
40417646		18.75	0.14	4.48	0.026	3.15	12.75	27.5	0.29	200	0.61	3.36	5.74	5.47	0.018	38.0
40417647		17.60	0.10	3.77	0.012	2.94	12.85	19.6	0.23	163.5	0.91	3.32	4.29	5.46	0.019	32.7
40417648		22.6	0.17	3.42	0.037	2.02	21.0	36.8	1.01	453	0.82	3.43	5.89	18.85	0.073	16.60
40417649		18.85	0.19	3.22	0.039	2.02	29.5	46.1	1.86	750	1.74	2.59	5.87	75.0	0.075	12.85
40417650		14.65	0.15	2.56	0.063	0.83	10.80	40.8	4.38	1080	3.03	1.560	7.55	721	0.071	6.65
40417651		17.40	0.19	3.11	0.036	2.13	27.1	45.0	1.94	749	1.97	2.52	5.81	80.3	0.074	14.95
40417652		19.15	0.23	3.39	0.040	2.21	34.1	44.1	1.71	678	1.79	2.76	6.44	65.7	0.076	20.5
40417653		17.50	0.22	3.22	0.036	2.09	25.3	48.2	1.85	800	1.53	2.55	6.34	69.0	0.067	14.70
40417654		18.75	0.21	4.05	0.045	2.57	29.4	47.5	1.39	550	4.98	2.89	7.74	59.7	0.047	20.8
40417655		20.7	0.19	2.94	0.047	3.26	21.1	35.6	0.60	357	1.68	2.82	14.70	23.7	0.017	40.3
40417656		18.70	0.22	3.05	0.040	2.06	27.3	49.3	1.68	712	1.46	2.67	6.18	60.9	0.071	16.35
40417657		18.00	0.20	3.64	0.034	2.50	32.4	41.6	1.42	588	1.70	2.88	6.94	47.6	0.073	22.4
40417658		18.15	0.23	3.16	0.049	2.28	32.7	52.3	1.96	757	1.46	2.50	6.72	71.2	0.094	22.7
40417659		13.85	0.16	2.86	0.015	4.85	24.4	9.9	0.15	123.5	1.16	2.33	3.97	2.67	0.012	72.7
40417660		23.7	0.27	2.61	0.085	1.52	22.9	16.0	2.18	1020	1.11	2.68	9.06	42.7	0.185	8.38
40417661		14.45	0.17	3.03	0.016	4.41	25.3	12.6	0.16	141.5	0.99	2.42	5.19	2.68	0.012	69.0
40417662		17.55	0.23	2.97	0.032	2.67	34.3	42.2	1.40	606	1.37	2.45	6.79	49.4	0.085	32.0
40417663		17.30	0.19	2.76	0.038	2.36	25.0	46.9	1.68	637	1.76	2.60	6.22	70.8	0.064	23.6
40417664		17.70	0.22	3.33	0.036	3.20	41.6	33.1	1.15	474	1.37	2.59	6.91	42.4	0.073	30.7
40417665		18.60	0.23	3.93	0.043	2.14	40.3	47.0	1.73	647	1.72	2.83	7.77	65.2	0.106	18.70
40417666		13.50	0.14	4.59	0.013	4.13	26.9	16.4	0.22	169.0	1.09	2.31	6.45	8.79	0.013	50.9
40417667		19.75	0.23	3.58	0.046	2.43	40.7	47.2	1.28	546	1.86	2.93	8.36	52.4	0.068	23.4
40417668		18.30	0.25	3.42	0.036	2.27	34.8	44.5	1.69	579	2.55	2.54	7.07	68.1	0.076	18.10
40417669		18.20	0.23	3.00	0.042	1.88	24.9	49.0	2.30	646	1.01	2.70	5.90	96.2	0.082	14.55
40417670		18.10	0.21	3.00	0.040	1.91	24.4	50.4	2.45	664	1.70	2.70	5.94	108.0	0.086	14.40
40417671		17.20	0.19	5.66	0.025	2.98	63.4	29.3	0.43	275	0.78	3.14	8.31	10.30	0.053	33.9
40417672		14.00	0.14	1.735	0.025	4.70	20.1	24.1	0.22	195.0	1.40	2.07	7.01	2.13	0.010	53.1
40417673		14.60	0.16	1.610	0.014	4.25	20.4	23.5	0.25	188.5	1.25	2.50	4.61	6.82	0.016	46.8
40417674		19.00	0.23	3.70	0.036	2.18	33.0	51.3	1.15	516	1.44	2.94	7.41	39.8	0.056	21.0
40417675		17.90	0.22	3.53	0.041	2.19	31.7	55.2	1.61	640	1.65	2.68	6.96	64.6	0.068	19.00
40417676		13.60	0.17	1.785	0.024	4.84	20.2	14.4	0.30	182.5	1.21	2.14	4.86	8.25	0.017	51.4
40417677		17.50	0.24	3.43	0.039	2.09	40.5	46.6	1.66	614	1.79	2.48	6.70	63.1	0.083	17.90
40417678		18.20	0.22	3.33	0.039	2.02	26.2	64.9	2.00	763	1.77	2.45	6.26	83.5	0.070	14.40



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOD		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417639		76.8	0.0026	0.18	0.09	27.9	0.126	2.15	551	0.73	0.021	5.49	0.995	0.319	1.70	197.5
40417640		60.4	0.0015	0.35	0.10	19.95	0.207	0.97	559	0.40	0.033	5.70	0.412	0.345	1.50	139.0
40417641		53.0	0.0012	0.33	0.10	15.75	0.186	0.92	603	0.38	0.030	5.21	0.409	0.339	1.44	141.5
40417642		63.2	0.0013	0.36	0.10	22.0	0.279	1.04	453	0.39	0.040	4.87	0.416	0.416	1.35	153.5
40417643		70.0	0.0009	0.26	0.10	13.80	0.189	0.95	421	0.43	0.031	6.67	0.323	0.417	2.34	107.0
40417644		76.1	0.0008	0.19	0.07	13.00	0.122	1.35	509	0.53	0.020	7.05	0.303	0.492	3.45	91.2
40417645		124.0	<0.0004	0.11	0.02	2.50	0.053	1.36	273	0.27	0.007	7.61	0.063	0.626	3.80	8.5
40417646		101.0	<0.0004	0.07	0.03	3.73	0.024	1.93	290	0.36	<0.005	8.71	0.086	0.541	4.09	10.0
40417647		86.4	0.0012	0.05	0.03	2.89	0.033	1.76	269	0.33	<0.005	8.34	0.063	0.452	2.56	9.0
40417648		74.4	0.0009	0.11	0.04	6.27	0.041	1.72	740	0.53	0.005	4.39	0.208	0.409	1.67	46.7
40417649		82.8	0.0018	0.29	0.10	14.80	0.190	1.29	454	0.44	0.027	7.51	0.312	0.427	2.56	110.0
40417650		15.55	0.0038	0.35	0.52	14.35	0.926	1.72	440	0.48	0.064	1.095	0.799	0.483	0.33	176.0
40417651		73.3	0.0020	0.30	0.09	15.15	0.144	1.06	444	0.45	0.034	7.37	0.351	0.452	2.00	113.5
40417652		93.4	0.0017	0.25	0.05	14.90	0.143	1.61	577	0.46	0.035	9.59	0.331	0.566	3.43	104.0
40417653		83.6	0.0016	0.32	0.06	15.65	0.190	1.25	409	0.47	0.041	6.85	0.363	0.490	2.22	117.5
40417654		134.5	0.0027	0.18	0.02	14.55	0.151	1.55	296	0.56	0.036	10.55	0.307	0.808	5.07	101.5
40417655		131.5	0.0007	0.06	0.03	8.71	0.055	2.77	209	1.03	0.007	13.30	0.173	0.710	13.85	37.7
40417656		87.5	0.0016	0.21	0.02	14.35	0.156	1.41	437	0.47	0.036	7.55	0.332	0.557	2.52	105.5
40417657		93.1	0.0010	0.18	0.03	11.10	0.126	1.25	403	0.57	0.025	11.25	0.286	0.524	2.86	84.4
40417658		93.3	0.0012	0.23	0.02	15.15	0.157	1.30	536	0.46	0.026	7.51	0.367	0.553	2.94	115.0
40417659		136.5	0.0004	0.01	0.02	2.19	0.018	0.98	202	0.23	<0.005	22.4	0.044	0.639	46.0	4.3
40417660		72.3	0.0019	0.15	0.06	21.1	0.105	1.26	546	0.53	0.019	2.52	0.885	0.344	1.20	184.5
40417661		132.5	0.0004	0.01	0.02	2.73	0.008	1.24	193.5	0.43	<0.005	22.4	0.055	0.632	61.1	5.3
40417662		116.5	0.0008	0.16	0.02	11.20	0.100	2.03	399	0.53	0.016	11.35	0.268	0.632	4.49	73.9
40417663		91.5	0.0011	0.21	0.02	14.00	0.133	1.30	513	0.46	0.027	7.55	0.314	0.520	2.49	100.5
40417664		130.5	0.0007	0.17	0.04	9.75	0.097	1.85	461	0.49	0.017	15.90	0.233	0.699	7.32	64.8
40417665		92.3	0.0009	0.26	0.02	13.45	0.143	1.73	573	0.60	0.025	11.25	0.354	0.594	2.59	102.0
40417666		128.0	0.0005	0.03	0.02	3.24	0.027	1.59	213	0.37	<0.005	18.95	0.074	0.629	18.30	13.2
40417667		131.5	0.0010	0.21	0.02	12.40	0.131	2.15	449	0.62	0.027	13.55	0.308	0.770	3.41	88.2
40417668		102.5	0.0012	0.21	0.02	14.40	0.136	2.04	491	0.52	0.027	10.15	0.323	0.585	2.13	102.5
40417669		77.9	0.0008	0.20	0.03	13.40	0.122	1.35	547	0.45	0.021	5.59	0.304	0.464	1.70	96.6
40417670		73.7	0.0008	0.22	0.03	12.85	0.130	1.31	543	0.44	0.020	5.61	0.306	0.462	1.70	98.2
40417671		107.0	0.0009	0.20	0.02	3.75	0.141	1.97	496	0.48	0.010	20.5	0.168	0.567	3.10	25.6
40417672		145.0	0.0009	0.02	0.02	3.85	0.009	1.82	199.0	0.40	<0.005	16.65	0.084	0.712	9.26	5.5
40417673		130.0	0.0009	0.04	0.02	3.62	0.033	1.68	207	0.32	<0.005	14.55	0.077	0.642	5.85	12.3
40417674		105.0	0.0011	0.18	0.02	10.95	0.136	2.10	398	0.57	0.024	12.20	0.271	0.596	2.85	75.1
40417675		96.0	0.0012	0.26	0.03	14.40	0.159	1.40	418	0.51	0.033	10.95	0.333	0.566	2.89	100.5
40417676		139.0	0.0006	0.04	0.03	3.50	0.029	1.14	230	0.30	<0.005	13.35	0.074	0.703	8.44	11.8
40417677		93.8	0.0007	0.25	0.03	12.10	0.140	1.35	518	0.49	0.026	11.55	0.325	0.514	3.16	91.7
40417678		77.1	0.0013	0.27	0.02	17.30	0.190	1.13	405	0.47	0.038	6.71	0.379	0.459	1.88	123.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417639		2.57	52.0	132.5	86.2	0.0045	0.004	<0.002	2	<0.1	<0.2
40417640		0.641	14.75	86.3	123.0	0.0035	<0.004	<0.002	2	0.8	0.6
40417641		1.165	14.65	89.4	121.5	0.0025	0.004	<0.002	2	0.6	0.4
40417642		0.667	15.20	98.5	117.0	0.0027	0.007	<0.002	<1	2.2	2.3
40417643		1.110	12.00	80.3	116.0	0.0012	0.008	<0.002	2	0.8	0.8
40417644		0.345	11.25	78.8	120.5	0.0045	0.005	<0.002	2	0.4	0.3
40417645		1.135	3.13	24.8	75.9	0.0029	<0.004	<0.002	2	<0.1	<0.2
40417646		0.286	3.31	32.4	125.5	0.0047	0.007	<0.002	2	<0.1	<0.2
40417647		0.699	3.11	28.4	102.0	0.0026	<0.004	0.006	1	<0.1	<0.2
40417648		0.265	6.17	72.5	123.5	0.0027	0.005	<0.002	2	<0.1	<0.2
40417649		1.015	12.80	81.3	115.0	0.0052	0.005	<0.002	2	0.9	0.7
40417650		0.267	18.20	112.0	99.4	0.0170	0.024	0.200	24	48.1	262
40417651		10.25	11.80	85.9	118.5	0.0066	0.005	<0.002	3	1.8	3.8
40417652		21.2	11.35	83.5	127.5	0.0027	0.004	<0.002	2	0.9	0.7
40417653		3.55	12.60	89.6	124.5	0.0015	0.007	<0.002	<1	1.3	1.1
40417654		16.90	10.95	82.7	137.0	0.0007	<0.004	<0.002	2	0.8	0.5
40417655		7.09	7.45	69.0	87.7	0.0007	<0.004	<0.002	<1	0.1	<0.2
40417656		25.1	12.10	87.3	114.5	0.0016	0.004	<0.002	<1	0.8	0.6
40417657		2.68	11.00	75.2	141.5	0.0026	0.004	<0.002	<1	0.6	0.3
40417658		12.30	12.20	94.1	122.5	0.0025	0.005	<0.002	<1	0.6	0.4
40417659		3.48	4.99	16.5	84.1	0.0026	<0.004	<0.002	<1	<0.1	<0.2
40417660		33.3	32.9	116.0	96.7	0.0017	0.006	<0.002	<1	<0.1	<0.2
40417661		3.63	5.29	21.9	87.7	0.0013	0.004	0.004	<1	<0.1	<0.2
40417662		8.52	10.15	77.4	108.5	0.0015	0.005	<0.002	<1	0.2	<0.2
40417663		1.990	10.05	96.1	106.0	0.0011	0.005	0.004	<1	1.0	0.7
40417664		7.45	9.86	72.7	122.5	0.0023	0.004	0.007	<1	0.1	<0.2
40417665		2.18	11.90	84.9	155.0	0.0021	<0.004	<0.002	<1	0.5	0.3
40417666		9.08	4.59	32.1	138.5	0.0028	0.004	<0.002	<1	<0.1	<0.2
40417667		1.585	11.20	85.1	135.0	0.0019	0.004	0.006	<1	0.5	<0.2
40417668		4.14	10.95	82.8	127.5	0.0017	<0.004	0.008	<1	0.9	0.5
40417669		1.490	10.15	80.6	110.5	0.0016	0.005	<0.002	<1	0.6	0.3
40417670		3.41	10.20	82.4	115.0	0.0014	0.004	<0.002	<1	0.5	0.4
40417671		2.55	7.15	57.4	219	0.0027	0.005	<0.002	<1	<0.1	<0.2
40417672		0.373	2.76	34.9	50.1	0.0009	<0.004	0.004	<1	<0.1	<0.2
40417673		1.025	3.68	30.7	48.2	0.0010	<0.004	<0.002	<1	<0.1	<0.2
40417674		0.480	9.69	80.5	134.0	0.0020	<0.004	<0.002	<1	0.3	<0.2
40417675		0.923	11.45	82.7	127.5	0.0057	<0.004	<0.002	<1	0.9	0.6
40417676		0.260	3.79	30.9	55.2	0.0019	<0.004	0.002	<1	<0.1	<0.2
40417677		0.618	11.65	78.0	134.0	0.0024	0.005	<0.002	<1	0.5	0.2
40417678		0.539	14.45	89.8	122.0	0.0026	0.005	0.003	<1	1.2	0.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
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Page: 3 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417679		4.76	0.088	7.71	0.07	660	1.37	0.160	2.10	0.091	63.4	20.6	140.0	5.14	48.9	4.33
40417680		0.17	0.479	8.95	4.29	346	0.62	0.128	6.71	0.269	27.3	65.9	1770	2.33	1170	8.47
40417681		2.69	0.077	7.19	0.31	570	0.99	0.059	0.63	0.015	88.4	1.665	11.0	2.54	2.87	1.100
40417682		3.40	0.174	7.11	0.26	550	1.07	0.071	0.78	0.028	136.0	1.935	17.6	2.18	5.70	1.050
40417683		1.83	0.091	7.88	0.18	550	1.55	0.134	2.13	0.068	60.8	20.3	102.5	7.31	46.8	4.48
40417684		3.27	0.039	6.95	0.06	630	0.79	0.112	0.46	0.014	29.3	1.215	9.1	1.84	2.60	0.910
40417685		5.21	0.052	7.03	0.21	590	1.11	0.144	0.79	0.021	49.1	3.00	26.5	2.40	8.74	1.070
40417686		5.21	0.046	6.92	0.33	680	0.66	0.071	0.39	0.008	32.5	0.928	8.8	1.96	0.94	0.710
40417687		4.94	0.047	7.03	0.43	540	0.99	0.051	0.73	0.022	92.8	0.953	10.8	1.42	1.35	0.660
40417688		3.13	0.066	6.74	0.35	600	0.85	0.416	0.53	0.013	115.0	1.310	10.6	1.55	1.63	0.900
40417689		3.29	0.129	7.96	0.54	560	1.51	0.157	2.19	0.073	39.4	20.8	151.5	5.08	43.9	3.73
40417690		0.57	0.031	8.75	1.16	520	2.02	0.025	5.18	0.108	59.2	33.5	47.7	1.41	40.1	7.21
40417691		3.42	0.082	7.83	0.86	650	1.42	0.171	2.27	0.079	53.1	22.8	117.0	3.70	49.9	4.27
40417692		0.58	0.028	8.48	1.02	540	2.06	0.023	4.89	0.104	64.8	30.9	38.4	1.40	36.0	6.73
40417693		5.32	0.094	8.11	0.19	580	1.22	0.216	2.38	0.114	46.6	31.2	186.0	4.99	62.1	5.34
40417694		5.19	0.077	7.87	0.22	610	1.19	0.204	2.24	0.091	50.8	25.4	123.0	4.38	54.2	4.70
40417695		4.83	0.094	8.20	0.22	550	1.64	0.276	2.13	0.073	42.9	24.2	115.0	7.39	48.6	4.30
40417696		2.87	0.110	8.30	0.29	520	1.34	0.564	1.87	0.096	45.6	31.3	152.5	5.79	66.4	5.19
40417697		1.70	0.071	7.75	0.24	430	1.96	0.161	1.74	0.074	42.0	17.25	83.9	4.93	26.7	2.99
40417698		4.64	0.077	7.34	0.26	500	1.27	0.175	1.75	0.068	51.8	23.1	138.0	5.08	50.6	4.28
40417699		1.62	0.158	7.72	0.43	690	1.23	0.221	2.33	0.088	45.9	28.0	193.5	4.83	54.7	4.75
40417700		1.61	0.086	7.87	0.43	690	1.25	0.209	2.38	0.094	46.1	27.3	192.5	4.62	52.3	4.96
40417701		3.19	0.080	7.90	0.72	500	1.43	0.197	2.73	0.135	56.9	29.2	149.5	5.84	76.3	5.23
40417702		2.16	0.033	6.75	0.26	490	1.03	0.084	0.62	0.010	43.8	2.45	12.1	1.80	13.00	0.970
40417703		5.17	0.208	7.55	0.76	620	1.34	0.271	2.57	0.183	48.2	21.9	88.6	3.89	50.1	4.40
40417704		5.50	0.189	7.75	0.36	670	1.34	0.285	2.61	0.072	46.6	24.2	124.5	4.98	47.9	4.75
40417705		2.72	0.066	7.60	0.58	810	1.39	0.164	3.31	0.097	47.4	21.7	165.0	2.51	37.5	4.11
40417706		3.42	0.066	7.64	0.33	377	1.86	0.163	1.09	0.029	36.2	4.50	21.1	2.99	15.35	1.690
40417707		3.66	0.083	7.78	0.38	308	2.32	0.124	1.39	0.041	56.9	5.83	30.2	2.58	13.25	2.17
40417708		4.48	0.076	7.83	0.34	820	2.22	0.082	1.76	0.039	39.5	7.52	31.9	2.56	15.35	1.890
40417709		1.74	0.070	7.34	0.23	439	1.85	0.125	0.85	0.026	25.0	6.01	33.4	3.52	22.1	1.680
40417710		0.17	0.465	9.27	5.13	339	0.64	0.127	6.71	0.258	26.5	67.9	1770	2.53	1130	8.33
40417711		3.75	0.067	7.36	0.28	730	1.71	0.111	1.63	0.031	42.7	6.69	34.0	2.59	9.66	1.900
40417712		3.65	0.075	6.58	0.25	391	1.19	0.123	0.84	0.030	47.8	1.655	11.2	1.63	9.94	0.780
40417713		4.84	0.049	6.93	0.18	510	1.20	0.079	0.87	0.018	80.7	2.11	11.2	2.04	4.17	0.910
40417714		4.21	0.064	7.84	0.26	590	2.10	0.158	1.49	0.043	29.5	6.04	27.0	4.56	8.02	1.870
40417715		1.99	0.065	7.45	0.28	470	1.95	0.390	0.99	0.037	19.40	1.690	10.0	2.70	5.63	0.810
40417716		3.17	0.068	7.73	0.34	560	2.03	0.096	1.50	0.037	32.9	6.25	27.2	2.99	8.93	1.690
40417717		3.93	0.087	7.74	0.52	730	2.54	0.252	2.36	0.069	66.9	12.00	65.2	5.14	16.35	2.69
40417718		1.71	0.044	9.00	0.23	1280	1.26	0.233	0.96	0.038	15.55	2.76	9.7	3.38	3.87	1.380





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417679		18.05	0.22	3.28	0.040	2.37	30.6	55.8	1.70	650	2.32	2.70	7.61	61.5	0.059	20.7
40417680		19.40	0.25	2.61	0.066	0.83	10.85	41.3	4.44	1080	2.93	1.585	7.55	729	0.072	5.92
40417681		13.55	0.21	6.83	0.009	5.01	40.0	14.0	0.18	138.0	0.70	2.37	4.99	2.33	0.014	52.9
40417682		14.65	0.26	10.85	0.015	4.44	60.7	13.5	0.18	133.5	1.08	2.61	3.30	5.12	0.019	53.1
40417683		18.65	0.23	3.23	0.049	2.23	27.3	71.4	1.88	693	1.52	2.64	6.62	58.0	0.084	17.70
40417684		13.15	0.16	0.698	0.018	5.74	12.65	7.8	0.16	117.5	0.77	2.09	3.50	2.12	0.033	51.7
40417685		14.20	0.18	1.205	0.019	5.08	21.0	14.2	0.39	167.0	0.82	2.32	3.51	8.99	0.026	57.3
40417686		14.25	0.07	0.813	0.010	5.02	14.90	7.0	0.11	87.1	5.30	2.03	3.04	1.40	0.010	62.6
40417687		16.50	0.13	2.93	0.008	4.59	40.8	7.8	0.12	86.3	1.10	2.73	3.02	2.21	0.014	51.3
40417688		15.20	0.17	8.95	0.009	4.81	51.2	9.3	0.19	116.0	0.94	2.28	4.29	2.21	0.014	50.5
40417689		22.0	0.16	2.43	0.035	2.04	17.75	54.8	1.84	576	1.43	2.97	6.79	74.4	0.080	15.50
40417690		24.8	0.27	2.41	0.083	1.61	23.9	16.1	2.38	1070	1.07	2.59	11.15	56.8	0.183	9.15
40417691		20.5	0.19	3.24	0.034	1.99	24.8	50.1	1.68	626	1.70	2.73	6.69	64.5	0.066	15.70
40417692		24.2	0.28	2.45	0.091	1.67	26.3	18.8	2.13	990	1.00	2.63	11.90	37.7	0.163	9.82
40417693		22.2	0.18	2.81	0.047	2.25	20.9	55.8	2.22	830	1.69	2.44	6.68	104.0	0.066	13.20
40417694		20.6	0.18	3.02	0.038	1.87	24.1	50.0	1.66	737	1.48	2.60	6.72	72.2	0.061	14.90
40417695		22.4	0.17	2.57	0.037	2.33	19.20	48.7	1.71	646	1.72	3.06	7.07	75.1	0.067	16.45
40417696		22.6	0.18	2.95	0.044	2.36	20.6	64.6	1.94	846	4.73	2.63	7.18	101.5	0.065	14.65
40417697		21.6	0.14	3.08	0.036	1.71	20.3	51.4	1.10	465	11.95	3.09	6.73	54.1	0.039	22.0
40417698		19.75	0.17	2.77	0.038	2.11	25.3	61.8	1.69	587	2.05	2.40	6.17	74.7	0.059	14.95
40417699		21.0	0.18	3.08	0.040	2.35	21.3	54.8	2.11	744	2.13	2.32	6.53	86.5	0.062	14.50
40417700		20.2	0.18	3.05	0.038	2.36	21.6	57.5	2.18	783	1.96	2.37	6.60	85.7	0.065	13.70
40417701		22.3	0.21	3.72	0.052	2.05	25.8	48.8	2.05	789	1.90	2.75	11.50	83.2	0.092	11.95
40417702		16.45	0.10	1.660	0.007	4.71	19.85	7.1	0.16	113.0	1.08	2.39	3.94	3.94	0.010	48.4
40417703		20.9	0.17	3.10	0.039	1.98	21.5	43.3	1.75	710	1.06	2.70	6.65	45.0	0.083	25.3
40417704		21.2	0.19	3.04	0.042	2.03	21.7	45.6	1.87	769	1.36	2.73	6.01	61.1	0.069	15.25
40417705		20.7	0.18	3.04	0.032	1.68	21.1	47.6	2.37	759	0.80	2.65	5.42	55.3	0.077	15.40
40417706		21.5	0.13	1.980	0.020	3.70	16.20	21.9	0.39	251	1.08	3.09	6.39	8.40	0.050	43.0
40417707		22.9	0.14	2.71	0.029	2.13	25.7	33.2	0.63	336	0.59	3.65	11.00	13.10	0.023	28.5
40417708		23.3	0.12	2.94	0.018	1.87	18.90	39.5	0.75	312	0.95	3.68	4.98	14.75	0.050	21.0
40417709		19.15	0.10	1.435	0.024	4.65	12.05	24.7	0.53	239	0.94	2.52	4.59	19.55	0.022	48.1
40417710		22.2	0.22	2.49	0.058	0.87	11.45	41.1	4.39	1055	3.03	1.575	8.07	678	0.067	6.49
40417711		22.1	0.14	2.90	0.028	2.00	19.80	40.2	0.69	287	1.09	3.48	5.93	13.35	0.044	20.9
40417712		16.55	0.13	4.03	0.005	3.85	20.6	8.5	0.10	102.0	0.99	2.79	2.60	2.99	0.010	45.5
40417713		17.30	0.16	6.24	0.010	3.83	36.1	15.2	0.23	133.5	0.68	2.91	3.10	3.50	0.019	41.8
40417714		22.0	0.11	2.48	0.020	2.72	13.65	38.9	0.64	321	0.80	3.54	6.37	11.90	0.070	26.9
40417715		19.20	0.07	2.16	0.007	4.06	8.90	13.8	0.19	138.0	0.74	3.25	3.82	2.47	0.057	42.7
40417716		22.7	0.11	2.80	0.021	2.28	15.60	36.6	0.64	288	0.74	3.66	5.18	12.35	0.044	24.8
40417717		23.1	0.19	2.62	0.030	2.72	29.1	39.3	1.44	459	0.59	3.22	8.08	56.1	0.122	26.0
40417718		22.1	0.12	0.279	0.020	5.14	5.09	15.0	0.41	234	0.35	2.45	8.02	7.18	0.225	52.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - C  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
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Project: EB80003512

<b>CERTIFICATE OF ANALYSIS TB22255241</b>
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Sample Description	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Method Analyte Units LOD	0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417679	99.8	0.0015	0.25	0.02	14.00	0.159	1.48	366	0.53	0.032	11.35	0.310	0.588	3.09	98.3
40417680	15.90	0.0033	0.35	0.48	19.25	0.871	1.65	445	0.46	0.062	1.075	0.790	0.469	0.33	178.5
40417681	147.5	0.0004	0.01	0.02	2.58	<0.006	1.12	224	0.26	<0.005	29.4	0.061	0.704	8.55	4.7
40417682	126.5	<0.0004	0.03	0.02	2.58	0.041	0.94	227	0.19	<0.005	46.0	0.052	0.609	10.20	8.8
40417683	130.5	0.0010	0.22	0.02	14.65	0.143	2.11	440	0.50	0.027	7.13	0.323	0.779	3.23	104.5
40417684	151.5	<0.0004	0.01	0.03	2.37	0.006	1.30	205	0.32	<0.005	8.82	0.044	0.729	4.90	4.1
40417685	148.0	<0.0004	0.03	0.03	3.17	0.020	1.55	225	0.28	<0.005	13.15	0.063	0.700	8.24	11.8
40417686	129.5	<0.0004	0.01	0.03	1.70	0.011	0.79	203	0.20	<0.005	12.75	0.036	0.789	22.4	3.2
40417687	131.0	<0.0004	0.01	0.03	1.70	0.035	0.57	208	0.16	<0.005	32.8	0.037	0.645	9.40	4.0
40417688	131.0	<0.0004	0.01	0.03	2.71	0.048	0.76	200	0.22	<0.005	41.0	0.055	0.688	10.50	4.5
40417689	89.7	0.0006	0.20	0.04	13.30	0.135	1.15	402	0.45	0.026	4.68	0.287	0.580	2.19	92.3
40417690	78.4	0.0012	0.15	0.06	24.7	0.113	1.52	473	0.57	0.021	3.88	0.899	0.353	1.49	180.0
40417691	78.2	0.0008	0.25	0.07	14.15	0.175	0.99	448	0.53	0.036	7.33	0.316	0.485	2.46	107.0
40417692	81.9	0.0012	0.15	0.06	23.2	0.118	1.49	462	0.61	0.021	3.21	0.814	0.395	1.27	172.0
40417693	85.7	0.0009	0.24	0.02	20.8	0.218	1.13	382	0.44	0.049	5.72	0.380	0.610	1.77	143.5
40417694	71.8	0.0008	0.24	0.04	16.60	0.202	1.00	381	0.48	0.049	7.23	0.356	0.490	2.14	123.5
40417695	104.0	0.0017	0.18	0.03	15.80	0.162	1.52	399	0.59	0.034	5.66	0.315	0.701	3.68	115.0
40417696	94.5	0.0022	0.22	0.03	20.5	0.253	1.21	361	0.65	0.052	5.98	0.372	0.634	2.14	139.5
40417697	80.4	0.0033	0.07	0.04	12.10	0.097	0.89	363	0.80	0.021	9.77	0.225	0.477	4.04	82.2
40417698	105.0	0.0011	0.17	0.02	16.05	0.199	1.18	336	0.47	0.037	8.22	0.306	0.612	2.43	114.0
40417699	98.9	0.0012	0.23	0.03	17.35	0.175	0.99	387	0.45	0.034	5.94	0.342	0.640	1.94	127.0
40417700	98.4	0.0011	0.23	0.04	17.05	0.192	1.04	392	0.44	0.034	6.14	0.349	0.612	2.01	127.5
40417701	114.5	0.0011	0.21	0.04	17.90	0.154	1.51	399	0.74	0.034	5.69	0.487	0.702	1.81	135.5
40417702	131.0	0.0005	0.03	0.04	2.23	0.065	0.83	198.0	0.27	<0.005	16.40	0.041	0.665	3.88	5.0
40417703	89.6	0.0028	1.10	0.06	14.45	0.399	1.41	454	0.46	0.086	5.65	0.345	0.574	1.94	118.0
40417704	92.1	0.0019	1.09	0.06	15.70	0.393	1.18	454	0.39	0.095	5.88	0.328	0.558	2.29	118.0
40417705	58.9	0.0004	0.24	0.08	14.55	0.115	0.95	610	0.50	0.017	4.96	0.293	0.401	2.09	104.5
40417706	115.0	0.0004	0.11	0.06	4.85	0.047	2.74	252	0.54	0.006	11.35	0.089	0.607	16.60	14.9
40417707	82.3	<0.0004	0.08	0.04	7.40	0.038	3.46	308	0.66	0.005	17.50	0.151	0.461	7.44	26.1
40417708	80.1	<0.0004	0.08	0.04	5.39	0.034	1.74	606	0.58	<0.005	4.70	0.162	0.464	3.18	36.7
40417709	153.0	<0.0004	0.11	0.04	4.10	0.054	2.15	222	0.30	0.006	5.37	0.080	0.808	17.70	20.1
40417710	23.9	0.0033	0.34	0.53	19.90	0.912	1.73	400	0.47	0.069	1.195	0.770	0.527	0.32	174.0
40417711	80.0	<0.0004	0.06	0.04	5.42	0.036	1.59	512	0.50	0.005	7.42	0.155	0.481	3.15	32.6
40417712	111.0	<0.0004	0.06	0.04	1.54	0.067	0.91	202	0.15	0.005	17.65	0.029	0.558	10.35	3.3
40417713	114.0	<0.0004	0.02	0.03	2.52	0.029	1.29	264	0.18	<0.005	27.7	0.056	0.589	8.27	8.5
40417714	108.0	<0.0004	0.05	0.03	5.38	0.029	2.54	445	0.54	<0.005	3.89	0.143	0.623	5.50	29.6
40417715	122.0	<0.0004	0.03	0.03	2.09	0.020	1.37	261	0.39	<0.005	6.14	0.040	0.625	10.10	5.6
40417716	90.9	<0.0004	0.05	0.04	4.95	0.024	1.91	468	0.35	<0.005	4.48	0.141	0.512	3.57	30.9
40417717	110.5	<0.0004	0.13	0.04	8.43	0.058	2.26	644	0.70	<0.005	5.90	0.240	0.669	5.26	52.3
40417718	138.5	<0.0004	0.06	0.05	3.91	0.013	2.00	402	0.73	<0.005	0.864	0.072	1.180	2.69	12.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 3 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
40417679		0.870	11.35	84.8	123.5	0.0036	<0.004	<0.002	<1	0.6	0.5
40417680		0.259	18.05	110.5	99.4	0.0138	0.023	0.167	21	50.8	226
40417681		0.439	4.91	25.3	199.5	0.0078	0.006	<0.002	<1	<0.1	<0.2
40417682		1.425	7.41	23.4	321	0.0053	0.008	<0.002	<1	<0.1	<0.2
40417683		0.678	12.20	90.3	120.5	0.0015	0.005	0.007	<1	0.5	0.2
40417684		0.222	5.15	17.4	19.8	<0.0004	0.004	<0.002	<1	<0.1	<0.2
40417685		0.397	4.16	25.7	36.2	0.0006	0.005	<0.002	<1	<0.1	<0.2
40417686		0.194	2.56	14.4	24.5	<0.0004	0.005	0.002	<1	<0.1	<0.2
40417687		0.364	4.61	15.0	86.5	0.0017	0.005	<0.002	<1	<0.1	<0.2
40417688		0.182	6.48	18.4	260	0.0046	0.006	<0.002	<1	<0.1	<0.2
40417689		0.573	11.55	81.6	87.6	0.0014	0.005	<0.002	<1	0.8	0.6
40417690		0.282	40.5	117.0	81.5	0.0020	0.005	<0.002	<1	<0.1	<0.2
40417691		0.696	11.80	84.9	118.0	0.0020	0.006	0.002	<1	0.6	0.2
40417692		0.270	39.1	116.5	90.7	0.0023	0.005	<0.002	<1	<0.1	<0.2
40417693		0.945	13.80	91.8	106.5	0.0017	0.006	<0.002	<1	1.9	1.8
40417694		0.543	13.45	89.3	110.0	0.0021	0.005	<0.002	<1	1.1	0.8
40417695		0.820	10.65	84.3	91.4	0.0011	0.005	<0.002	<1	1.0	0.6
40417696		0.751	14.45	91.8	109.5	0.0014	0.007	<0.002	<1	1.9	2.1
40417697		0.796	8.71	58.8	104.0	0.0018	0.004	<0.002	<1	0.7	0.4
40417698		0.616	10.55	76.2	98.0	0.0016	0.007	0.002	<1	1.2	0.9
40417699		1.680	12.45	88.0	114.0	0.0014	0.005	0.009	<1	1.5	1.3
40417700		5.77	12.45	88.8	115.5	0.0025	0.008	<0.002	<1	1.6	1.6
40417701		1.725	16.65	105.0	141.0	0.0031	0.007	0.002	<1	1.5	1.4
40417702		12.95	3.05	17.6	46.2	0.0004	0.004	<0.002	<1	<0.1	<0.2
40417703		1.605	12.75	121.5	119.5	0.0026	0.006	0.002	<1	0.4	<0.2
40417704		5.46	12.60	86.7	108.0	0.0028	0.007	<0.002	<1	0.7	0.4
40417705		1.060	10.85	86.1	116.5	0.0027	0.005	0.005	<1	1.4	3.2
40417706		5.20	9.47	39.5	62.7	0.0008	0.004	<0.002	<1	<0.1	<0.2
40417707		2.76	6.22	65.2	92.6	0.0011	0.004	<0.002	<1	<0.1	<0.2
40417708		3.01	5.07	56.5	111.0	0.0016	0.004	<0.002	<1	<0.1	<0.2
40417709		4.31	3.28	45.1	43.8	0.0009	<0.004	0.002	<1	<0.1	<0.2
40417710		0.293	18.95	112.5	95.7	0.0157	0.023	0.232	23	43.7	214
40417711		1.735	4.97	57.5	107.0	0.0018	<0.004	<0.002	<1	<0.1	<0.2
40417712		5.00	3.76	16.0	108.0	0.0020	<0.004	<0.002	<1	<0.1	<0.2
40417713		1.925	4.97	23.0	176.0	0.0030	<0.004	0.002	<1	<0.1	<0.2
40417714		2.56	9.31	56.8	87.3	0.0017	<0.004	0.002	<1	<0.1	<0.2
40417715		2.01	8.90	19.5	58.2	0.0006	<0.004	<0.002	<1	<0.1	<0.2
40417716		2.72	5.34	51.5	97.2	0.0020	<0.004	<0.002	<1	<0.1	<0.2
40417717		1.160	10.25	69.8	96.9	0.0007	<0.004	<0.002	<1	<0.1	<0.2
40417718		1.285	23.1	33.0	7.3	<0.0004	<0.004	<0.002	<1	<0.1	<0.2



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - A  
Total # Pages: 7 (A - D)  
Plus Appendix Pages  
Finalized Date: 21-OCT-2022  
Account: RTECILHR

Project: EB80003512

CERTIFICATE OF ANALYSIS TB22255241

Table with columns: Sample Description, Method Analyte Units LOD, WEI-21 Recvd Wt., and 14 elements (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe) with their respective concentrations in various units (kg, ppm, %).

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417719		19.50	0.24	3.66	0.036	1.47	35.0	35.7	2.15	660	0.72	2.83	7.45	74.3	0.145	14.05
40417720		23.9	0.26	2.03	0.104	1.48	20.7	20.2	2.64	1205	1.41	2.40	10.80	51.9	0.210	8.03
40417721		21.9	0.21	3.53	0.036	2.04	25.6	57.5	1.59	638	0.79	3.04	7.20	48.1	0.107	14.65
40417722		19.90	0.21	3.00	0.042	1.84	19.90	71.1	2.26	763	1.45	2.34	6.80	91.5	0.074	13.05
40417723		14.20	0.14	1.720	0.005	3.90	15.85	9.0	0.19	126.5	4.95	2.35	3.92	2.83	0.010	39.6
40417724		19.95	0.21	3.46	0.046	2.09	25.6	62.9	1.74	636	2.52	2.53	8.16	59.5	0.062	16.15
40417725		16.20	0.21	3.00	0.012	4.18	33.3	13.2	0.23	151.5	1.55	2.36	6.74	2.25	0.012	49.8
40417726		20.5	0.24	3.34	0.052	2.06	29.9	67.9	1.64	595	1.98	2.54	6.83	64.6	0.075	20.0
40417727		14.55	0.29	16.10	0.006	3.90	65.3	10.0	0.13	105.5	1.55	2.35	3.61	1.47	0.017	54.3
40417728		14.10	0.25	7.35	0.008	4.17	53.3	10.1	0.13	94.0	1.66	2.31	3.65	1.26	0.014	50.4
40417729		12.95	0.19	5.11	0.005	4.33	29.0	4.3	0.07	72.9	2.26	2.15	2.42	1.15	0.012	57.7
40417730		14.00	0.21	6.66	<0.005	4.43	38.1	4.7	0.08	76.3	2.28	2.30	2.58	1.18	0.014	65.8
40417731		22.7	0.25	7.14	0.049	1.96	32.3	61.4	1.54	577	2.70	2.80	8.87	54.8	0.054	39.9
40417732		14.30	0.23	1.605	0.010	4.32	29.0	9.5	0.18	119.5	1.19	2.35	3.78	2.52	0.020	47.7
40417733		14.40	0.15	0.939	0.007	3.89	9.11	5.0	0.09	104.5	1.13	2.22	3.00	1.97	0.012	53.6
40417734		18.90	0.22	3.14	0.047	2.13	24.6	64.2	1.64	729	2.36	2.48	6.76	66.4	0.054	15.00
40417735		14.35	0.27	4.55	0.020	2.78	57.8	15.8	0.35	382	2.16	2.23	6.11	11.65	0.018	39.2
40417736		18.50	0.23	3.24	0.046	2.11	23.5	69.2	1.83	780	1.54	2.29	6.71	74.5	0.055	11.80
40417737		15.50	0.19	0.916	0.015	4.06	14.00	15.0	0.34	234	1.26	2.14	9.09	5.81	0.010	48.9
40417738		19.60	0.25	3.20	0.041	1.96	21.8	55.9	1.82	745	1.56	2.42	5.97	71.5	0.066	13.35
40417739		19.05	0.25	3.68	0.033	2.05	36.6	44.7	1.49	600	1.98	2.50	6.91	46.0	0.062	17.10
40417740		21.0	0.28	2.69	0.059	0.80	9.43	41.7	4.21	1035	3.25	1.520	7.80	681	0.066	5.83
40417741		19.05	0.23	3.32	0.034	2.05	25.2	49.0	1.40	513	1.96	2.55	6.75	46.3	0.048	16.85
40417742		19.20	0.24	3.48	0.040	2.14	23.8	54.6	1.43	615	1.84	2.53	6.76	38.1	0.056	17.60
40417743		18.80	0.24	3.06	0.044	2.26	24.6	57.2	1.44	661	1.32	2.46	7.25	38.0	0.081	17.85
40417744		20.8	0.27	3.32	0.057	2.11	20.8	56.2	2.10	988	0.68	2.30	5.75	13.00	0.131	12.80
40417745		19.45	0.26	3.45	0.047	2.20	28.0	57.2	1.41	593	1.75	2.71	7.51	51.5	0.055	22.5
40417746		14.95	0.19	2.02	0.016	4.02	18.10	21.7	0.44	235	1.88	2.10	5.70	11.90	0.017	43.4
40417747		14.05	0.19	1.900	0.016	3.68	23.8	11.5	0.15	120.0	1.72	1.990	4.47	1.24	0.010	54.6
40417748		14.25	0.19	2.23	0.014	3.60	24.4	17.0	0.21	154.0	1.37	1.860	5.99	1.40	0.009	56.9
40417749		14.40	0.19	0.465	0.014	4.00	12.90	8.0	0.16	139.5	1.46	2.09	3.85	1.57	0.009	58.0
40417750		23.0	0.29	2.21	0.088	1.75	19.80	16.4	2.11	958	1.35	2.49	9.29	42.2	0.157	10.30
40417751		13.65	0.20	1.695	0.010	3.96	16.95	6.2	0.14	121.5	1.52	2.23	2.72	1.37	0.009	54.0
40417752		13.45	0.17	1.235	0.011	3.81	12.65	5.6	0.16	101.5	1.28	2.07	3.27	1.13	0.009	44.7
40417753		13.55	0.21	3.07	0.005	3.86	24.2	7.4	0.17	138.5	1.61	1.950	4.66	1.52	0.010	54.0
40417754		13.90	0.19	4.23	<0.005	4.41	39.8	8.5	0.13	101.0	1.18	2.11	3.70	1.12	0.012	51.7
40417755		14.60	0.16	2.28	0.006	4.63	18.40	8.1	0.13	110.5	1.45	2.24	3.61	1.50	0.009	47.3
40417756		15.40	0.21	5.37	0.007	4.48	33.2	9.0	0.18	129.5	1.90	2.34	4.57	2.51	0.011	45.5
40417757		20.6	0.23	3.25	0.041	2.02	23.5	81.7	2.16	936	1.27	2.52	7.56	50.3	0.079	17.10
40417758		17.20	0.20	1.345	0.021	4.84	20.4	23.5	0.52	285	2.37	2.08	10.60	5.83	0.019	41.7



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417719		39.4	0.0007	0.46	0.04	13.80	0.135	1.39	828	0.51	0.013	5.60	0.365	0.476	3.32	104.5
40417720		50.5	0.0012	0.16	0.08	28.3	0.119	1.80	447	0.60	0.020	2.40	1.050	0.386	1.81	199.5
40417721		85.0	0.0007	0.21	0.08	11.35	0.087	1.52	629	0.60	0.013	4.69	0.297	0.599	1.74	79.7
40417722		69.3	0.0011	0.27	0.09	17.30	0.189	1.66	337	0.61	0.031	5.40	0.323	0.507	3.45	114.5
40417723		111.0	<0.0004	0.02	0.05	2.27	0.018	0.97	180.5	0.24	<0.005	12.35	0.044	0.552	11.75	4.3
40417724		113.5	0.0007	0.25	0.07	14.90	0.126	1.84	285	0.62	0.033	9.49	0.313	0.673	4.65	99.1
40417725		119.5	<0.0004	0.01	0.04	3.77	<0.006	1.12	187.5	0.35	<0.005	27.7	0.077	0.639	9.20	5.2
40417726		129.0	0.0007	0.23	0.03	15.50	0.159	2.07	353	0.59	0.027	8.70	0.333	0.805	5.06	103.5
40417727		106.0	<0.0004	0.01	0.04	2.46	0.007	0.65	186.0	0.17	<0.005	55.5	0.045	0.548	15.30	3.0
40417728		112.5	<0.0004	0.01	0.04	2.18	0.012	0.72	182.0	0.19	<0.005	45.3	0.044	0.589	11.45	3.0
40417729		116.0	<0.0004	0.01	0.05	1.45	0.023	0.65	180.0	0.18	<0.005	24.5	0.026	0.647	23.4	2.1
40417730		116.0	<0.0004	0.01	0.04	1.63	0.014	0.69	189.0	0.18	<0.005	33.7	0.029	0.663	31.9	2.3
40417731		95.2	0.0010	0.19	0.11	17.25	0.140	3.61	243	0.65	0.031	19.05	0.286	0.571	10.20	97.8
40417732		109.5	<0.0004	0.01	0.04	2.65	0.013	1.32	195.5	0.39	<0.005	24.3	0.049	0.553	7.10	5.3
40417733		109.5	<0.0004	0.01	0.03	1.81	<0.006	0.99	181.5	0.36	<0.005	7.52	0.031	0.663	8.51	3.7
40417734		103.0	0.0010	0.27	0.04	17.75	0.207	1.78	291	0.48	0.035	8.75	0.336	0.638	3.09	114.5
40417735		83.3	<0.0004	0.06	0.04	5.62	0.047	0.95	181.5	0.34	0.008	45.6	0.093	0.448	7.58	19.4
40417736		102.5	0.0008	0.29	0.05	17.70	0.192	1.47	310	0.51	0.037	7.00	0.354	0.650	2.57	124.0
40417737		98.6	<0.0004	0.04	0.03	4.29	0.016	0.98	183.0	0.49	<0.005	10.75	0.080	0.525	4.90	9.5
40417738		59.3	0.0010	0.29	0.05	17.75	0.217	1.11	388	0.48	0.045	6.18	0.354	0.495	2.10	117.5
40417739		84.5	0.0011	0.21	0.03	13.45	0.141	1.24	360	0.57	0.028	12.10	0.302	0.503	2.42	90.9
40417740		10.75	0.0024	0.33	0.55	19.55	0.900	1.76	392	0.48	0.062	0.957	0.761	0.480	0.33	168.0
40417741		101.5	0.0009	0.17	0.03	13.35	0.125	1.50	282	0.53	0.028	7.92	0.282	0.640	2.52	83.3
40417742		97.9	0.0005	0.14	0.02	12.95	0.122	1.60	325	0.51	0.028	7.03	0.298	0.566	3.83	89.3
40417743		116.5	0.0005	0.20	0.02	12.90	0.122	1.88	353	0.62	0.041	7.09	0.299	0.659	5.91	91.5
40417744		67.4	<0.0004	0.16	0.02	17.90	0.086	1.68	472	0.36	0.030	4.09	0.408	0.529	1.42	141.5
40417745		92.1	0.0008	0.16	0.02	13.60	0.153	1.30	317	0.53	0.032	10.90	0.291	0.547	4.13	89.0
40417746		127.0	0.0005	0.03	0.02	5.23	0.021	1.16	196.5	0.41	0.007	12.60	0.115	0.665	15.60	22.6
40417747		116.0	<0.0004	<0.01	0.03	2.58	0.010	0.96	188.5	0.29	<0.005	19.50	0.056	0.722	17.10	4.0
40417748		118.5	<0.0004	0.01	0.03	3.47	0.006	1.20	184.0	0.40	<0.005	19.55	0.079	0.770	14.05	4.9
40417749		122.5	<0.0004	0.01	0.04	2.16	<0.006	0.85	210	0.26	<0.005	10.10	0.049	0.783	9.58	3.4
40417750		43.8	0.0010	0.14	0.08	22.3	0.080	1.44	451	0.57	0.014	2.66	0.795	0.357	1.04	166.5
40417751		114.0	<0.0004	0.01	0.05	1.49	<0.006	0.60	186.5	0.19	<0.005	14.15	0.034	0.624	26.8	2.7
40417752		111.0	<0.0004	0.01	0.03	1.91	0.009	0.68	179.0	0.21	<0.005	10.25	0.042	0.696	11.80	3.0
40417753		120.5	<0.0004	0.01	0.04	2.53	<0.006	0.88	185.5	0.30	<0.005	20.6	0.057	0.708	11.40	3.8
40417754		115.0	<0.0004	<0.01	0.02	2.05	0.015	0.68	203	0.17	<0.005	31.3	0.045	0.668	7.72	3.1
40417755		119.5	0.0006	0.01	0.04	1.89	0.021	0.60	205	0.17	<0.005	16.15	0.038	0.617	9.44	3.1
40417756		114.5	0.0004	0.01	0.02	2.53	0.027	0.66	213	0.19	<0.005	25.7	0.049	0.602	6.24	4.4
40417757		98.2	0.0009	0.22	0.03	14.70	0.154	1.45	411	0.52	0.033	8.61	0.357	0.640	2.51	112.0
40417758		135.0	<0.0004	0.05	0.03	5.80	0.041	1.59	235	0.53	0.007	15.55	0.125	0.691	5.19	19.7



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417719		1.165	11.05	74.8	138.0	0.0016	0.004	<0.002	<1	0.1	<0.2
40417720		1.195	41.5	126.5	62.9	0.0023	0.006	<0.002	<1	<0.1	<0.2
40417721		0.530	10.10	75.5	129.5	0.0014	<0.004	<0.002	<1	0.3	0.2
40417722		0.882	11.25	90.2	107.5	0.0010	0.007	<0.002	<1	1.1	0.8
40417723		0.335	2.82	17.4	46.2	0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417724		0.889	11.20	86.5	119.0	0.0031	0.007	<0.002	<1	0.7	0.5
40417725		0.310	4.23	28.8	83.9	0.0009	0.004	<0.002	<1	<0.1	<0.2
40417726		0.776	11.50	92.0	113.0	0.0017	<0.004	<0.002	<1	0.6	0.3
40417727		0.235	8.63	16.4	407	0.0069	0.009	<0.002	<1	<0.1	<0.2
40417728		0.338	6.19	17.5	195.5	0.0030	0.006	<0.002	<1	<0.1	<0.2
40417729		0.348	7.09	11.5	146.0	0.0020	<0.004	<0.002	<1	<0.1	<0.2
40417730		0.518	9.14	12.5	186.5	0.0024	0.004	<0.002	<1	<0.1	<0.2
40417731		0.978	14.15	105.0	214	0.0033	0.006	<0.002	1	0.9	0.7
40417732		0.383	8.54	17.6	44.1	0.0015	<0.004	<0.002	<1	<0.1	<0.2
40417733		0.258	2.64	14.0	23.8	<0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417734		1.775	11.80	88.2	110.5	0.0013	0.004	<0.002	3	1.7	3.2
40417735		0.597	9.56	33.4	129.5	0.0013	0.006	<0.002	<1	<0.1	<0.2
40417736		0.748	12.45	91.3	116.5	0.0018	0.006	<0.002	<1	2.0	1.9
40417737		0.346	3.46	28.4	23.4	<0.0004	0.004	<0.002	<1	<0.1	<0.2
40417738		0.853	11.50	83.5	118.0	0.0018	0.008	<0.002	<1	1.3	1.4
40417739		4.06	11.60	73.5	136.5	0.0028	0.005	<0.002	<1	0.7	0.7
40417740		0.282	16.05	103.5	101.0	0.0220	0.030	0.232	21	36.8	202
40417741		1.685	9.24	74.3	114.0	0.0011	0.004	<0.002	<1	0.8	0.8
40417742		2.32	10.35	74.8	119.0	0.0010	0.005	<0.002	<1	0.5	0.5
40417743		1.605	11.95	78.6	111.5	0.0011	0.008	<0.002	1	0.7	0.8
40417744		1.310	14.35	92.7	123.5	0.0016	<0.004	<0.002	<1	<0.1	<0.2
40417745		1.990	10.75	70.3	120.5	0.0022	0.008	<0.002	1	0.8	0.8
40417746		5.03	4.30	34.9	59.4	0.0017	0.005	<0.002	<1	<0.1	<0.2
40417747		1.970	3.12	20.2	53.1	0.0005	0.005	<0.002	<1	<0.1	<0.2
40417748		2.60	3.08	28.3	62.4	0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417749		0.253	1.56	20.9	12.0	0.0006	<0.004	<0.002	<1	<0.1	<0.2
40417750		0.286	33.6	104.0	67.3	0.0005	0.006	<0.002	<1	<0.1	<0.2
40417751		0.244	2.46	12.8	46.6	0.0007	<0.004	<0.002	<1	<0.1	<0.2
40417752		0.252	1.85	13.9	34.2	0.0005	<0.004	<0.002	<1	<0.1	<0.2
40417753		0.350	3.15	21.8	86.1	0.0011	<0.004	<0.002	<1	<0.1	<0.2
40417754		0.175	4.30	18.2	131.5	0.0025	0.007	<0.002	<1	<0.1	<0.2
40417755		0.334	2.20	16.6	69.2	0.0021	<0.004	<0.002	<1	<0.1	<0.2
40417756		0.382	4.14	19.3	159.5	0.0030	<0.004	<0.002	<1	<0.1	<0.2
40417757		1.025	12.15	117.5	123.0	0.0032	0.006	<0.002	<1	0.7	0.7
40417758		0.450	3.95	29.9	43.1	0.0012	<0.004	<0.002	<1	<0.1	<0.2



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417759		1.99	0.135	7.43	0.26	530	1.48	0.111	1.51	0.084	56.9	17.35	97.6	3.79	35.2	4.10
40417760		1.98	0.109	7.44	4.49	550	1.46	0.117	1.50	0.102	61.7	17.75	97.9	3.42	37.5	3.85
40417761		3.34	0.081	6.67	0.54	670	0.71	0.519	0.54	0.011	81.4	1.220	12.2	1.30	40.5	0.790
40417762		3.75	0.047	6.82	0.34	660	0.86	0.081	0.62	0.017	98.0	1.090	13.2	1.68	1.19	0.800
40417763		5.67	0.115	7.39	0.35	770	1.21	0.197	1.95	0.086	71.0	18.30	98.8	3.66	44.7	3.86
40417764		5.75	0.092	7.36	0.22	650	1.09	0.176	2.01	0.083	52.7	19.40	93.9	3.64	42.9	3.96
40417765		5.73	0.084	7.63	0.24	760	1.17	0.157	1.85	0.086	60.1	21.0	98.6	3.49	49.1	4.17
40417766		5.53	0.103	7.82	0.32	690	1.30	0.212	2.24	0.131	66.2	26.5	139.0	3.81	57.3	4.63
40417767		3.70	0.081	7.80	0.43	800	1.44	0.154	2.41	0.078	67.5	22.2	94.8	2.67	44.0	4.39
40417768		5.38	0.055	7.45	0.14	820	1.58	0.127	2.08	0.040	68.9	21.2	167.5	1.70	39.6	4.21
40417769		3.85	0.073	7.67	0.33	1050	1.78	0.142	0.83	0.066	120.5	5.32	18.2	1.05	41.2	1.910
40417770		0.17	0.578	8.75	4.51	336	0.61	0.122	6.48	0.247	24.2	62.6	1720	2.04	1100	8.18
40417771		3.19	0.068	7.59	0.56	650	1.75	0.191	1.11	0.050	64.2	18.95	96.5	1.67	37.4	4.40
40417772		5.04	0.041	7.65	0.65	950	1.55	0.094	1.30	0.006	125.5	9.95	38.0	0.77	11.75	2.64
40417773		5.08	0.063	7.62	0.24	770	1.37	0.153	1.66	0.068	56.4	22.5	117.0	1.70	50.6	4.56
40417774		5.87	0.066	7.51	0.39	800	1.20	0.202	2.15	0.136	57.3	25.2	137.5	2.09	54.4	4.88
40417775		5.85	0.115	7.79	0.28	750	1.16	0.230	1.76	0.098	57.8	29.5	112.0	3.19	168.0	5.25
40417828		5.49	0.073	7.29	0.23	820	1.32	0.179	2.72	0.128	61.4	22.2	168.5	1.56	46.5	3.99
40417829		5.57	0.094	7.73	0.36	890	1.20	0.192	2.14	0.098	56.4	24.1	128.0	2.75	54.2	4.40
40417830		0.17	0.476	8.87	4.06	340	0.60	0.135	6.49	0.287	25.6	63.8	1730	2.26	1110	8.25
40417831		5.49	0.100	7.69	0.43	710	1.34	0.228	1.92	0.107	61.6	23.6	131.5	1.52	64.3	4.28
40417832		5.78	0.093	7.62	0.27	640	1.17	0.199	2.35	0.107	53.6	22.6	131.0	2.54	56.8	4.46
40417833		5.56	0.077	7.72	6.56	850	1.14	0.165	2.23	0.089	54.9	23.4	146.5	1.89	49.3	4.48
40417834		5.83	0.088	7.44	0.40	650	1.54	0.212	2.15	0.118	52.3	20.9	141.5	2.56	50.5	3.82
40417835		5.69	0.081	7.38	0.61	550	1.55	0.160	2.12	0.070	57.1	19.00	111.5	4.35	46.3	3.95
40417836		5.08	0.104	7.16	0.27	580	1.42	0.174	2.08	0.086	49.4	22.0	146.5	2.09	42.7	4.17
40417837		5.74	0.106	7.72	0.40	620	1.34	0.145	2.03	0.084	49.0	21.1	135.0	2.82	51.1	4.01
40417838		3.26	0.089	7.41	0.29	580	1.36	0.147	2.28	0.095	51.8	21.3	133.0	3.15	43.7	4.10
40417839		3.04	0.046	5.99	0.40	399	1.01	0.081	0.64	0.040	22.2	2.71	22.7	1.04	5.82	1.230
40417840		0.65	0.036	8.67	0.94	630	2.05	0.020	5.12	0.107	61.6	32.7	49.0	1.12	38.1	7.17
40417841		2.82	0.135	7.49	0.29	470	1.34	0.130	1.83	0.064	47.5	19.20	110.0	4.02	39.5	3.90
40417842		2.66	0.104	3.49	0.33	310	0.56	0.043	0.28	0.006	18.65	0.669	10.1	0.59	2.51	0.370
40417843		2.07	0.109	8.17	0.28	438	1.59	0.145	2.09	0.076	68.1	17.10	98.8	3.99	51.1	3.93
40417844		2.94	0.036	6.73	0.19	520	1.23	0.093	0.73	0.023	49.8	1.360	14.6	1.31	4.82	0.690
40417845		1.66	0.097	7.84	0.57	590	1.48	0.123	1.98	0.175	58.7	18.85	105.0	2.83	39.0	4.13
40417846		1.14	0.041	4.96	0.49	215	1.27	0.047	0.81	0.025	9.00	1.065	20.4	0.50	7.32	0.620
40417847		5.81	0.091	7.93	0.38	650	1.35	0.126	2.16	0.129	61.2	20.8	115.5	2.79	39.7	4.05
40417848		3.64	0.090	7.78	0.38	376	1.65	0.209	1.78	0.076	53.4	17.20	110.0	6.84	29.9	3.88
40417849		0.93	0.059	7.52	0.15	276	1.46	0.060	1.49	0.037	18.00	2.47	13.2	1.14	2.73	1.130
40417850		0.91	0.055	7.56	0.24	306	1.40	0.056	1.39	0.027	26.4	2.88	17.0	1.25	3.55	1.280

\*\*\*\*\* 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  
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Page: 5 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
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Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L	
	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	
	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01	
40417759	22.5	0.25	3.34	0.044	1.97	27.0	66.2	1.50	645	2.53	2.82	9.80	50.5	0.054	27.6	
40417760	21.9	0.24	3.39	0.033	1.97	29.7	64.1	1.50	637	2.78	2.83	8.65	53.4	0.050	26.0	
40417761	15.15	0.21	3.81	0.014	4.89	38.4	7.2	0.16	114.0	1.10	2.29	4.71	1.52	0.011	53.3	
40417762	15.85	0.24	5.77	0.009	4.83	42.4	6.8	0.12	109.0	1.13	2.25	4.42	1.50	0.013	53.5	
40417763	20.2	0.25	3.15	0.027	2.02	33.8	51.8	1.53	604	2.02	2.45	6.72	55.0	0.082	15.60	
40417764	19.55	0.27	2.83	0.038	1.98	26.0	53.4	1.45	597	2.24	2.50	6.38	54.6	0.055	15.95	
40417765	20.4	0.27	3.06	0.035	2.23	29.1	61.4	1.64	671	1.44	2.48	6.61	62.1	0.066	16.70	
40417766	23.1	0.30	3.25	0.036	2.13	31.1	56.9	2.11	794	2.21	2.50	7.25	84.9	0.073	21.7	
40417767	21.5	0.31	3.14	0.035	2.15	30.7	47.1	2.04	789	1.36	2.62	6.83	69.3	0.098	17.75	
40417768	20.2	0.28	3.73	0.027	1.99	33.0	53.9	2.56	858	2.00	2.67	6.75	95.3	0.090	10.85	
40417769	21.1	0.25	4.47	0.012	3.49	62.9	21.3	0.65	286	0.73	3.12	6.79	10.30	0.068	30.6	
40417770	22.4	0.31	2.49	0.061	0.81	10.20	40.8	4.28	1070	3.01	1.535	8.09	697	0.067	5.91	
40417771	20.8	0.25	3.07	0.022	1.73	31.5	61.9	2.04	653	1.73	2.91	6.85	57.4	0.070	11.25	
40417772	21.8	0.30	4.47	0.011	2.51	59.1	29.6	1.29	459	0.86	3.44	9.04	28.0	0.115	9.93	
40417773	20.6	0.27	2.91	0.030	1.80	27.7	51.9	1.99	804	1.99	2.47	6.34	66.0	0.067	9.83	
40417774	20.9	0.30	2.97	0.038	1.83	26.1	57.5	2.14	921	1.44	2.34	6.49	79.7	0.080	26.7	
40417775	21.8	0.30	2.93	0.030	2.09	28.0	67.0	1.67	773	1.63	2.42	6.87	106.5	0.059	16.95	
40417828	21.0	0.30	3.15	0.030	1.84	28.0	45.9	2.19	722	1.48	2.37	7.18	81.6	0.087	20.2	
40417829	20.8	0.28	3.31	0.035	2.30	26.7	50.5	1.87	754	1.98	2.42	6.80	73.9	0.069	20.1	
40417830	22.9	0.32	2.58	0.056	0.83	10.70	40.8	4.33	1080	3.07	1.535	8.38	692	0.067	6.02	
40417831	20.4	0.24	3.09	0.043	2.36	29.4	36.5	1.90	727	1.92	2.44	6.96	73.3	0.072	18.70	
40417832	20.3	0.26	3.11	0.038	2.20	25.2	40.4	1.97	790	1.90	2.39	6.72	61.3	0.066	21.4	
40417833	20.9	0.28	2.93	0.039	2.11	26.4	45.9	1.94	815	2.13	2.38	6.27	72.8	0.060	13.70	
40417834	20.1	0.26	2.72	0.040	2.38	23.6	42.7	1.98	716	1.19	2.52	8.14	78.7	0.086	21.8	
40417835	20.7	0.26	3.81	0.038	1.99	26.3	45.6	1.61	628	1.45	2.73	8.70	61.0	0.067	17.70	
40417836	20.6	0.26	2.87	0.037	1.89	22.3	45.4	2.00	788	1.58	2.51	7.20	93.6	0.062	13.40	
40417837	20.0	0.26	2.94	0.036	2.33	22.4	51.5	1.75	700	1.63	2.71	6.98	68.2	0.060	19.60	
40417838	20.3	0.26	2.93	0.034	1.91	23.0	43.7	1.76	674	1.88	2.61	6.68	64.6	0.070	13.30	
40417839	13.95	0.14	2.36	0.013	3.20	9.83	10.6	0.30	172.5	1.30	2.32	5.45	7.08	0.009	53.1	
40417840	25.1	0.38	2.22	0.097	1.52	24.8	16.5	2.39	1025	1.19	2.56	11.00	45.8	0.175	8.30	
40417841	20.1	0.27	2.55	0.034	1.97	21.2	55.9	1.72	611	2.28	2.72	7.61	58.5	0.067	25.8	
40417842	7.69	0.11	2.64	<0.005	2.58	8.56	2.3	0.07	51.8	1.40	1.180	1.230	2.14	0.007	45.2	
40417843	22.1	0.20	3.07	0.043	2.04	32.5	42.3	1.48	556	1.88	2.90	8.96	48.8	0.057	20.0	
40417844	15.70	0.14	1.540	0.009	4.29	23.0	4.4	0.11	99.6	1.25	2.55	3.00	3.54	0.013	58.6	
40417845	21.2	0.19	3.15	0.049	1.95	27.9	43.4	1.53	596	1.78	2.78	6.81	53.7	0.062	73.3	
40417846	12.05	0.09	0.892	<0.005	1.84	4.28	5.2	0.09	80.9	1.68	2.35	0.942	3.58	0.007	27.6	
40417847	21.9	0.21	3.10	0.040	1.85	28.6	42.5	1.73	596	1.58	2.95	6.26	66.3	0.069	31.8	
40417848	21.6	0.22	2.86	0.047	2.15	24.3	44.3	1.45	571	1.98	2.95	8.43	53.3	0.065	28.2	
40417849	18.20	0.13	2.49	0.010	2.43	7.86	14.2	0.24	163.5	0.84	3.67	4.16	5.54	0.029	33.3	
40417850	18.45	0.12	2.81	0.015	2.67	11.45	13.6	0.27	179.0	1.03	3.56	4.52	6.36	0.024	34.0	



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

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1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 5 - C  
Total # Pages: 7 (A - D)  
Plus Appendix Pages  
Finalized Date: 21-OCT-2022  
Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB2255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40417759		98.0	0.0010	0.16	0.03	13.70	0.141	2.78	340	0.74	0.031	11.50	0.307	0.611	4.43	92.3
40417760		96.2	0.0007	0.18	0.03	13.25	0.162	2.50	349	0.63	0.031	13.10	0.300	0.590	3.53	92.0
40417761		135.5	0.0004	0.02	0.03	2.54	0.023	0.75	197.5	0.21	<0.005	25.5	0.050	0.690	18.05	3.7
40417762		136.0	<0.0004	0.01	0.03	2.41	0.042	0.78	222	0.23	<0.005	35.9	0.044	0.693	7.07	3.9
40417763		78.8	0.0009	0.23	0.04	12.65	0.151	0.97	512	0.44	0.030	7.41	0.347	0.482	2.13	97.1
40417764		75.8	0.0010	0.18	0.04	13.20	0.156	0.95	384	0.45	0.032	7.75	0.317	0.473	1.90	99.7
40417765		83.5	0.0010	0.21	0.03	14.25	0.158	1.00	433	0.45	0.032	7.93	0.343	0.502	2.01	108.0
40417766		97.1	0.0009	0.22	0.04	17.05	0.196	1.30	448	0.50	0.044	8.43	0.344	0.581	2.17	124.0
40417767		78.3	0.0007	0.23	0.02	14.80	0.131	1.43	582	0.48	0.022	6.49	0.342	0.494	2.35	110.0
40417768		69.0	0.0007	0.19	0.03	11.75	0.114	1.30	473	0.43	0.017	9.53	0.310	0.423	2.18	94.2
40417769		98.5	<0.0004	0.29	0.04	3.97	0.174	1.89	429	0.29	0.009	14.70	0.195	0.473	1.91	28.7
40417770		14.15	0.0030	0.33	0.51	19.65	0.929	1.67	417	0.45	0.062	1.045	0.776	0.493	0.33	171.5
40417771		70.2	0.0009	0.31	0.07	12.70	0.176	1.25	336	0.48	0.035	8.10	0.316	0.338	2.53	93.2
40417772		83.8	0.0006	0.22	0.03	6.45	0.112	1.35	416	0.40	0.011	11.00	0.310	0.407	2.36	56.2
40417773		81.7	0.0011	0.27	0.03	15.25	0.165	1.05	426	0.44	0.035	7.15	0.332	0.426	2.23	108.5
40417774		66.3	0.0009	0.25	0.03	16.95	0.220	0.98	444	0.45	0.035	6.92	0.364	0.418	2.08	118.0
40417775		86.6	0.0010	0.28	0.03	16.90	0.386	1.21	394	0.50	0.068	8.69	0.344	0.499	2.57	113.5
40417828		57.6	0.0007	0.23	0.04	14.00	0.127	1.00	571	0.49	0.024	6.53	0.331	0.404	2.39	103.5
40417829		89.9	0.0009	0.29	0.04	15.05	0.231	1.14	421	0.48	0.037	7.44	0.354	0.498	2.23	115.0
40417830		16.75	0.0034	0.34	0.51	20.4	0.985	1.76	417	0.48	0.069	1.130	0.784	0.514	0.33	173.5
40417831		94.7	0.0010	0.25	0.06	15.80	0.200	1.28	386	0.49	0.037	7.67	0.348	0.512	2.55	113.5
40417832		77.9	0.0010	0.26	0.04	15.90	0.178	1.41	444	0.45	0.033	7.81	0.342	0.468	2.82	117.0
40417833		83.0	0.0009	0.25	0.07	16.25	0.188	1.01	467	0.45	0.037	7.19	0.338	0.455	2.01	114.5
40417834		88.4	0.0008	0.25	0.04	12.60	0.158	1.92	467	0.52	0.030	5.88	0.297	0.511	2.76	94.6
40417835		99.3	0.0009	0.21	0.04	12.90	0.145	2.59	414	0.65	0.027	8.99	0.307	0.633	3.21	92.0
40417836		69.9	0.0008	0.26	0.04	14.35	0.174	1.49	370	0.54	0.028	6.98	0.306	0.430	3.20	102.0
40417837		90.3	0.0009	0.21	0.04	14.40	0.147	1.31	384	0.50	0.030	7.08	0.303	0.499	4.77	102.5
40417838		81.4	0.0008	0.22	0.04	14.30	0.188	1.52	433	0.45	0.030	6.82	0.319	0.559	2.53	106.0
40417839		81.2	<0.0004	0.04	0.02	3.27	0.033	1.23	189.5	0.29	0.006	9.45	0.068	0.417	30.7	10.6
40417840		79.8	0.0013	0.16	0.04	25.6	0.132	1.48	484	0.52	0.023	2.16	0.876	0.370	0.99	180.0
40417841		99.4	0.0008	0.18	0.02	13.75	0.141	1.85	383	0.45	0.028	6.28	0.297	0.601	15.90	94.0
40417842		64.1	<0.0004	0.01	0.02	0.77	0.021	0.32	115.0	0.14	<0.005	8.65	0.013	0.324	43.4	3.0
40417843		95.9	0.0005	0.26	0.03	12.55	0.182	2.62	395	0.57	0.026	12.55	0.293	0.600	6.24	82.2
40417844		109.0	<0.0004	0.02	0.03	1.63	0.035	0.75	211	0.37	0.005	19.15	0.033	0.565	34.9	5.5
40417845		90.2	0.0007	0.22	0.05	13.40	0.150	1.94	393	0.54	0.025	8.51	0.317	0.568	2.75	97.4
40417846		45.1	<0.0004	0.02	0.04	0.63	0.017	0.32	168.5	0.07	0.005	2.22	0.014	0.232	14.20	3.6
40417847		82.0	0.0006	0.21	0.06	13.95	0.139	1.58	469	0.48	0.026	7.81	0.310	0.520	2.69	100.5
40417848		114.5	0.0004	0.15	0.03	12.40	0.134	3.27	360	0.61	0.023	9.04	0.287	0.723	9.39	85.2
40417849		69.3	<0.0004	0.01	0.05	2.76	0.010	1.29	246	0.22	<0.005	6.41	0.071	0.401	12.80	9.8
40417850		74.1	<0.0004	0.01	0.05	3.21	0.012	1.56	245	0.22	<0.005	10.10	0.077	0.421	15.40	11.3

\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 5 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
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Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2
40417759		0.961	10.30	96.3	122.5	0.0024	0.005	0.009	<1	0.4	0.2
40417760		1.370	10.05	100.5	124.0	0.0038	0.005	<0.002	<1	0.7	0.6
40417761		1.320	5.05	15.4	110.0	0.0028	<0.004	<0.002	<1	<0.1	<0.2
40417762		0.359	5.33	18.4	167.5	0.0037	0.005	0.004	<1	<0.1	<0.2
40417763		1.285	10.55	82.9	122.0	0.0023	0.004	<0.002	<1	0.6	0.6
40417764		0.702	10.55	78.0	111.5	0.0023	<0.004	<0.002	<1	0.7	0.6
40417765		0.885	10.80	81.5	118.0	0.0026	0.004	<0.002	<1	0.9	0.8
40417766		0.662	13.15	99.0	122.5	0.0030	0.004	<0.002	<1	0.8	0.7
40417767		0.677	12.20	80.2	121.0	0.0018	0.004	<0.002	<1	0.6	0.5
40417768		0.407	10.20	59.0	147.0	0.0024	0.006	<0.002	<1	0.7	0.6
40417769		0.770	7.10	40.9	187.0	0.0030	0.005	<0.002	<1	<0.1	<0.2
40417770		0.256	17.25	108.5	95.0	0.0174	0.037	0.183	26	46.1	231
40417771		0.639	11.50	56.7	117.0	0.0020	<0.004	<0.002	<1	0.6	0.6
40417772		1.025	10.20	35.3	192.0	0.0030	<0.004	<0.002	<1	<0.1	<0.2
40417773		0.701	12.05	61.1	111.5	0.0024	0.006	<0.002	<1	0.9	0.8
40417774		0.658	13.20	95.5	114.0	0.0022	0.007	<0.002	1	1.5	1.5
40417775		0.639	13.05	78.3	110.0	0.0035	0.008	<0.002	1	1.5	1.4
40417828		0.496	10.50	85.6	122.5	0.0031	0.007	<0.002	<1	0.9	0.6
40417829		0.848	12.00	78.7	124.5	0.0030	<0.004	0.003	<1	0.8	0.8
40417830		0.268	18.00	111.5	99.0	0.0133	0.028	0.208	23	39.2	206
40417831		0.607	13.55	93.0	115.0	0.0026	0.004	<0.002	<1	0.6	0.6
40417832		0.938	12.20	93.8	115.0	0.0034	<0.004	<0.002	<1	0.5	0.5
40417833		0.955	12.25	72.8	112.0	0.0030	<0.004	<0.002	1	1.1	1.1
40417834		0.969	11.50	88.0	102.0	0.0018	<0.004	<0.002	<1	0.9	0.7
40417835		0.881	10.45	86.0	130.0	0.0024	0.005	<0.002	<1	0.6	0.6
40417836		1.110	11.30	59.1	105.5	0.0022	0.004	<0.002	<1	0.6	0.7
40417837		0.844	10.95	69.9	104.0	0.0020	0.005	<0.002	1	0.7	0.8
40417838		0.925	11.65	82.1	108.5	0.0025	0.004	<0.002	<1	0.7	0.7
40417839		1.110	3.87	28.9	68.5	0.0011	<0.004	<0.002	1	<0.1	<0.2
40417840		0.896	39.4	116.5	76.0	0.0023	0.004	0.009	<1	<0.1	<0.2
40417841		1.005	9.90	75.9	93.6	0.0018	<0.004	<0.002	<1	0.5	0.4
40417842		1.130	3.12	5.2	78.3	0.0012	<0.004	<0.002	<1	<0.1	<0.2
40417843		0.810	11.00	83.5	112.0	0.0018	<0.004	<0.002	<1	0.5	0.5
40417844		1.025	4.84	12.6	48.1	0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417845		0.900	11.65	152.0	117.0	0.0021	<0.004	<0.002	<1	0.7	0.7
40417846		1.530	1.60	9.8	26.7	0.0005	<0.004	<0.002	<1	<0.1	<0.2
40417847		0.960	11.55	98.8	116.0	0.0029	<0.004	<0.002	2	0.6	0.7
40417848		0.940	10.90	93.5	106.5	0.0010	0.004	<0.002	<1	0.5	0.5
40417849		1.200	4.24	25.0	71.2	0.0013	<0.004	<0.002	<1	<0.1	<0.2
40417850		2.30	4.29	28.1	80.7	0.0014	<0.004	<0.002	<1	<0.1	<0.2



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB2225241**

Sample Description	WEI-21 Recd Wt.	ME-MS61L Ag	ME-MS61L Al	ME-MS61L As	ME-MS61L Ba	ME-MS61L Be	ME-MS61L Bi	ME-MS61L Ca	ME-MS61L Cd	ME-MS61L Ce	ME-MS61L Co	ME-MS61L Cr	ME-MS61L Cs	ME-MS61L Cu	ME-MS61L Fe
	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Method Analyte Units LOD	0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417851	2.18	0.088	8.05	0.20	590	1.36	0.104	2.18	0.086	52.5	20.8	126.5	4.95	43.8	4.19
40417852	4.78	0.058	8.07	0.24	350	2.86	0.207	2.25	0.086	29.8	9.81	85.5	1.70	8.61	1.950
40417853	4.45	0.067	7.95	0.25	228	2.45	0.054	1.75	0.052	14.00	2.88	15.7	1.59	5.09	1.130
40417854	3.87	0.101	7.70	0.33	740	1.74	0.332	3.44	0.130	84.8	24.6	170.0	3.42	64.6	4.78
40417855	3.87	0.083	8.07	0.39	470	1.92	0.130	2.24	0.065	37.4	14.75	92.9	4.24	29.3	3.01
40417856	1.55	0.073	7.61	0.40	890	0.94	0.223	1.10	0.082	19.35	4.83	22.2	1.77	15.35	1.600
40417857	5.87	0.095	7.96	0.37	620	1.22	0.141	2.31	0.077	42.8	19.50	118.0	3.49	41.1	3.78
40417858	5.68	0.089	8.24	0.37	670	1.22	0.142	2.24	0.070	56.5	16.70	106.5	2.54	34.3	3.32
40417859	5.53	0.103	8.05	0.38	670	1.24	0.204	2.32	0.096	57.9	25.2	142.5	4.37	55.7	4.78
40417860	0.17	0.463	8.84	4.83	345	0.62	0.129	6.60	0.301	26.6	64.9	1735	2.22	1125	8.35
40417861	5.76	0.075	8.00	0.03	700	1.18	0.192	2.60	0.121	58.2	23.0	141.5	4.28	52.6	4.50
40417862	5.60	0.083	7.91	0.15	700	1.19	0.184	2.52	0.101	54.4	24.3	154.0	3.77	53.7	4.62
40417863	5.53	0.065	8.03	0.12	680	1.23	0.121	2.71	0.074	60.5	21.2	134.0	3.98	37.5	4.03
40417864	2.95	0.070	7.92	0.12	580	1.16	0.176	2.76	0.087	46.9	24.2	131.0	3.77	53.6	4.64
40417865	3.08	0.075	7.88	0.19	750	1.19	0.208	2.98	0.069	53.2	21.3	135.0	3.58	42.8	3.91
40417866	1.24	0.044	7.20	0.11	820	1.28	0.149	0.67	0.021	25.9	2.36	16.2	2.60	10.75	1.040
40417867	5.67	0.099	7.96	0.33	770	1.58	0.244	2.99	0.092	74.0	25.9	173.5	7.03	53.7	4.79
40417868	5.29	0.092	8.18	0.44	650	1.56	0.265	2.66	0.103	64.2	27.0	168.0	6.27	58.9	5.33
40417869	3.17	0.057	7.27	0.21	335	1.47	0.143	1.15	0.039	15.15	2.10	17.5	1.85	3.45	0.980
40417870	0.61	0.029	8.67	0.72	520	2.06	0.058	5.28	0.119	64.5	33.5	49.7	1.63	36.5	7.51
40417871	2.09	0.079	7.34	0.15	630	1.17	0.214	3.01	0.080	62.2	31.7	384	6.66	49.5	5.07
40417872	1.22	0.078	8.17	0.40	550	1.50	0.198	2.35	0.091	69.2	28.3	167.0	4.54	55.2	5.59
40417873	2.95	0.069	6.80	0.07	500	0.98	0.151	0.72	0.016	128.5	1.830	17.6	1.35	13.00	0.960
40417874	5.48	0.083	7.78	0.23	620	1.43	0.201	2.10	0.068	62.8	21.4	138.5	6.08	45.6	4.23
40417875	2.83	0.038	6.64	0.24	660	0.94	0.511	0.56	0.027	53.6	1.225	11.4	1.82	2.00	0.650
40417876	5.51	0.092	8.03	0.28	680	1.42	0.200	2.38	0.088	68.9	26.3	174.5	5.39	58.5	5.06
40417877	5.70	0.092	7.98	0.35	640	1.29	0.209	2.31	0.099	66.8	26.5	173.0	4.57	59.7	5.06
40417878	5.52	0.087	8.04	0.14	710	1.30	0.220	2.46	0.088	63.9	24.4	173.0	4.22	55.2	5.24
40417879	2.27	0.106	7.30	0.31	660	1.38	0.260	2.50	0.101	68.8	23.8	200	5.83	50.3	4.78
40417880	2.18	0.104	7.35	0.38	680	1.38	0.269	2.58	0.160	69.6	23.5	193.5	5.69	53.1	4.59
40417881	1.28	0.051	7.65	0.29	520	1.21	0.167	1.17	0.040	16.85	4.06	26.3	1.82	7.70	1.370
40417882	5.74	0.088	7.75	<0.02	710	1.38	0.208	2.74	0.099	57.3	27.0	204	5.65	52.2	5.13
40417883	5.96	0.110	8.72	0.24	670	1.59	0.294	2.14	0.120	75.3	29.6	169.0	6.92	68.1	6.05
40417884	2.90	0.095	7.89	0.18	590	1.26	0.245	2.24	0.101	60.6	25.5	168.5	5.74	56.8	5.26
40417885	4.22	0.055	7.17	0.13	480	1.07	0.098	0.73	0.030	46.9	2.38	18.4	2.13	5.34	1.080
40417886	3.16	0.098	7.81	0.34	500	1.44	0.159	1.74	0.093	62.9	21.7	138.5	7.12	47.5	4.80
40417887	3.10	0.084	7.91	0.10	590	1.56	0.189	1.66	0.091	62.1	21.6	138.0	7.14	43.5	5.60
40417888	1.76	0.056	7.07	0.41	412	1.08	0.129	0.68	0.089	78.6	3.72	31.4	2.11	10.20	1.580
40417889	0.96	0.091	8.25	0.18	344	1.61	0.152	1.25	0.049	71.5	20.0	120.0	5.29	39.5	4.71
40417890	0.17	0.472	8.91	4.67	344	0.61	0.247	6.56	0.284	27.9	60.5	1715	2.77	1110	8.16

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

<b>CERTIFICATE OF ANALYSIS</b> <b>TB22255241</b>
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Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417851		21.7	0.21	2.99	0.049	2.22	24.0	55.2	1.61	596	1.60	2.82	7.38	62.5	0.062	16.70
40417852		22.0	0.17	1.940	0.029	1.96	12.45	23.2	1.13	416	0.84	3.86	8.96	47.2	0.055	28.9
40417853		22.5	0.11	1.455	0.014	1.70	6.30	20.3	0.28	182.0	0.93	4.24	5.36	6.72	0.017	31.3
40417854		20.3	0.26	3.02	0.043	1.92	37.8	39.8	2.14	759	1.71	2.73	7.75	81.7	0.140	14.55
40417855		21.0	0.21	2.47	0.030	1.69	16.95	35.2	1.16	466	1.48	3.43	6.11	44.1	0.054	16.60
40417856		18.05	0.16	1.495	0.018	4.84	7.09	17.5	0.47	255	0.92	2.10	7.21	10.65	0.219	51.3
40417857		18.90	0.18	2.79	0.034	1.90	18.85	43.4	1.52	541	1.57	3.06	5.27	61.0	0.062	12.70
40417858		20.7	0.23	2.96	0.034	2.07	26.0	41.8	1.42	473	1.60	3.15	5.28	54.1	0.062	16.90
40417859		21.0	0.23	3.16	0.048	2.05	27.0	52.7	1.96	711	1.84	2.71	6.66	78.7	0.069	14.90
40417860		22.3	0.26	2.47	0.069	0.84	11.10	41.9	4.28	1055	3.02	1.595	7.68	689	0.066	6.24
40417861		19.20	0.20	2.94	0.041	1.98	27.4	47.3	1.73	731	1.63	2.60	5.84	70.3	0.065	15.60
40417862		20.5	0.24	3.04	0.046	1.86	24.9	51.5	1.93	789	1.97	2.68	6.00	80.8	0.069	13.65
40417863		20.5	0.25	2.95	0.041	1.86	27.5	42.7	1.79	615	1.38	2.91	5.37	70.7	0.074	13.30
40417864		19.85	0.23	2.91	0.041	1.76	20.6	41.8	1.89	708	1.59	2.88	5.59	72.1	0.067	11.85
40417865		21.0	0.24	2.92	0.031	1.83	24.1	39.2	1.89	596	2.00	2.89	5.70	68.8	0.071	13.55
40417866		14.85	0.14	0.565	0.010	5.11	12.00	7.9	0.21	165.5	1.24	2.32	3.77	3.18	0.036	71.1
40417867		21.4	0.24	3.90	0.046	2.46	33.6	48.2	2.25	728	16.65	2.46	7.72	90.5	0.123	20.2
40417868		22.5	0.26	3.25	0.052	2.24	29.6	55.4	1.94	783	1.68	2.26	7.54	89.1	0.078	14.75
40417869		19.95	0.12	2.34	0.017	3.31	6.96	11.6	0.20	145.5	1.48	3.16	4.92	5.64	0.018	54.5
40417870		25.5	0.33	2.09	0.096	1.51	25.9	16.9	2.44	1080	1.35	2.61	10.85	44.9	0.178	8.99
40417871		19.15	0.26	3.08	0.046	2.02	29.7	58.0	3.80	770	1.66	2.22	6.03	183.5	0.078	12.75
40417872		22.6	0.28	3.39	0.052	2.08	31.7	52.0	2.11	792	1.63	2.37	7.53	95.2	0.080	15.55
40417873		16.20	0.25	12.55	0.011	3.91	55.7	10.3	0.24	130.0	1.56	2.84	4.63	5.10	0.016	90.2
40417874		21.1	0.22	3.29	0.040	2.44	29.1	49.5	1.74	633	1.71	2.58	7.53	69.0	0.067	16.15
40417875		15.10	0.16	2.95	0.008	4.64	24.0	5.2	0.12	98.5	1.30	2.23	3.40	2.85	0.024	62.1
40417876		21.3	0.26	3.41	0.046	2.28	31.9	59.4	2.14	751	2.10	2.46	7.08	87.7	0.075	15.30
40417877		20.9	0.27	3.30	0.049	2.11	31.5	55.0	2.01	774	1.74	2.57	6.66	88.7	0.074	15.35
40417878		21.3	0.29	3.01	0.045	2.14	29.9	49.8	2.11	767	1.80	2.61	6.31	83.0	0.080	14.15
40417879		19.05	0.11	3.47	0.042	1.95	32.9	43.9	2.16	696	2.06	2.49	6.87	77.6	0.076	16.85
40417880		19.35	0.13	3.68	0.038	1.95	33.1	40.9	2.00	681	2.14	2.58	7.06	78.2	0.080	17.25
40417881		18.00	0.08	0.569	0.017	3.53	6.43	14.9	0.49	158.0	0.91	3.59	6.70	9.38	0.159	28.5
40417882		20.4	0.16	3.33	0.047	2.01	27.0	50.2	2.37	768	1.78	2.54	6.78	87.1	0.076	15.60
40417883		23.1	0.17	3.80	0.055	2.40	35.8	69.0	2.05	858	2.09	2.40	8.69	93.9	0.089	17.10
40417884		19.85	0.16	3.54	0.041	2.14	28.8	61.5	1.98	763	2.56	2.37	7.22	83.6	0.072	14.65
40417885		17.70	0.11	7.87	0.013	4.44	21.0	12.1	0.23	143.0	6.98	2.67	5.18	6.20	0.013	74.3
40417886		21.3	0.16	4.76	0.055	2.26	31.0	61.4	1.57	612	2.53	2.66	9.36	64.5	0.056	19.95
40417887		20.8	0.18	3.49	0.044	2.34	31.2	65.4	1.60	580	2.17	2.63	8.35	64.6	0.052	18.75
40417888		18.20	0.15	5.55	0.025	3.59	35.8	19.6	0.38	336	2.24	2.75	7.72	10.40	0.014	64.9
40417889		21.8	0.18	3.94	0.063	2.19	34.6	64.2	1.61	601	2.71	3.08	9.09	58.9	0.052	16.50
40417890		22.0	0.18	2.81	0.068	0.85	12.25	40.7	4.27	1030	3.15	1.555	8.01	672	0.065	6.02





ALS Canada Ltd.  
 21 03 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
 www.alsglobal.com/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 6 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
	0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2
40417851	0.784	11.65	89.4	108.0	0.0016	0.004	<0.002	<1	0.6	0.6
40417852	0.783	9.47	44.3	55.1	<0.0004	0.005	<0.002	<1	<0.1	<0.2
40417853	0.893	3.12	29.3	43.1	<0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417854	0.757	15.10	87.6	114.5	0.0017	0.004	<0.002	<1	0.8	0.8
40417855	0.830	8.51	68.3	90.9	0.0012	<0.004	<0.002	<1	0.2	0.2
40417856	0.814	28.2	49.2	45.5	0.0005	<0.004	<0.002	<1	<0.1	<0.2
40417857	0.879	9.87	76.5	104.0	0.0084	0.004	<0.002	<1	0.7	0.5
40417858	0.874	9.64	67.6	109.0	0.0050	0.004	<0.002	<1	0.1	<0.2
40417859	0.895	13.35	80.9	120.5	0.0024	0.004	<0.002	<1	1.5	1.6
40417860	0.253	17.70	109.0	100.5	0.0174	0.032	0.203	22	32.1	186.0
40417861	0.877	12.10	91.4	109.5	0.0023	0.004	<0.002	<1	1.3	1.5
40417862	0.543	12.80	76.9	114.5	0.0015	0.005	<0.002	1	1.9	2.1
40417863	0.702	11.00	76.4	115.0	0.0022	<0.004	<0.002	<1	0.9	0.8
40417864	0.456	11.70	84.6	110.5	0.0012	0.004	<0.002	<1	1.6	1.7
40417865	1.425	10.05	69.9	111.5	0.0013	<0.004	<0.002	<1	0.5	0.5
40417866	0.288	23.7	20.6	17.3	0.0005	<0.004	<0.002	<1	<0.1	<0.2
40417867	0.778	17.30	88.9	144.5	0.0021	<0.004	<0.002	<1	2.2	2.0
40417868	0.747	14.40	92.2	126.0	0.0021	0.004	<0.002	<1	0.8	0.9
40417869	0.854	2.47	22.3	60.6	0.0012	0.004	<0.002	<1	<0.1	<0.2
40417870	0.328	38.4	122.0	75.4	0.0027	<0.004	<0.002	<1	<0.1	<0.2
40417871	0.588	11.85	82.1	120.0	0.0023	0.005	<0.002	1	2.1	2.7
40417872	0.675	15.60	92.5	125.5	0.0016	0.005	<0.002	1	2.0	2.3
40417873	0.818	9.56	14.3	357	0.0063	0.006	<0.002	<1	<0.1	<0.2
40417874	0.511	11.30	80.3	123.0	0.0018	0.004	0.002	<1	0.8	0.9
40417875	0.745	6.68	15.0	87.7	0.0011	<0.004	<0.002	<1	<0.1	<0.2
40417876	0.582	13.90	87.3	135.0	0.0028	0.008	<0.002	<1	1.5	1.6
40417877	0.856	14.35	87.9	128.0	0.0019	0.007	<0.002	1	1.8	1.9
40417878	1.135	13.30	83.7	120.0	0.0021	<0.004	<0.002	<1	1.2	1.2
40417879	0.805	14.05	97.3	123.5	0.0026	<0.004	<0.002	<1	0.6	0.9
40417880	0.836	14.55	100.5	131.0	0.0033	0.004	<0.002	<1	1.0	1.0
40417881	2.70	22.1	31.8	16.3	<0.0004	<0.004	<0.002	<1	<0.1	<0.2
40417882	0.924	13.80	91.9	118.5	0.0031	0.004	<0.002	<1	2.0	2.3
40417883	1.590	18.40	103.0	139.5	0.0038	0.004	<0.002	<1	1.6	1.7
40417884	1.035	14.40	92.1	128.0	0.0032	0.005	<0.002	<1	1.6	1.7
40417885	3.69	5.16	23.8	207	0.0048	<0.004	<0.002	<1	<0.1	<0.2
40417886	1.145	12.85	94.4	153.5	0.0042	<0.004	<0.002	<1	0.8	0.8
40417887	1.665	13.20	86.1	119.5	0.0021	0.004	<0.002	<1	1.1	0.9
40417888	1.035	8.74	57.7	149.5	0.0037	0.006	<0.002	<1	<0.1	<0.2
40417889	2.09	12.25	72.6	133.5	0.0029	0.005	<0.002	<1	1.0	0.8
40417890	0.276	19.95	112.5	102.0	0.0214	0.080	0.339	19	40.8	214

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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 7 - A  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB2255241**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417891		2.95	0.057	7.07	0.43	355	1.11	0.130	0.68	0.029	48.7	8.28	62.7	2.25	16.70	2.67
40417892		5.50	0.101	7.76	0.20	490	1.33	0.196	1.63	0.080	70.3	22.4	135.5	6.45	52.4	4.79
40417893		5.72	0.085	7.81	0.57	710	1.38	0.222	2.17	0.095	61.3	24.6	170.0	4.96	53.2	4.69
40417894		3.86	0.097	7.97	0.40	720	1.50	0.248	2.17	0.111	73.5	27.0	158.5	7.24	56.4	5.51
40417895		3.89	0.086	8.00	0.77	600	1.60	0.259	1.33	0.066	78.7	20.7	126.5	5.40	54.1	4.30
40417896		1.63	0.062	7.73	0.45	530	1.38	0.144	0.72	0.057	179.5	4.87	28.6	3.18	17.05	2.10
40417897		5.68	0.112	7.84	0.37	610	1.50	0.256	1.94	0.109	70.5	25.6	155.5	6.09	53.5	4.72
40417898		3.09	0.110	8.04	0.46	660	1.38	0.198	2.13	0.098	67.1	27.0	176.5	6.73	57.1	5.11
40417899		3.20	0.037	7.24	0.19	590	0.78	0.102	0.55	0.029	82.1	1.980	11.8	2.09	4.41	1.000
40417900		0.51	0.025	8.68	0.68	460	1.55	0.019	5.81	0.130	57.8	39.2	64.5	0.86	42.6	8.95
40417901		5.18	0.109	7.59	0.73	630	1.37	0.235	1.88	0.102	67.8	25.2	152.0	5.27	71.6	4.42
40417902		4.07	0.103	7.88	0.45	770	1.40	0.217	2.27	0.102	71.1	25.8	185.5	5.14	57.0	4.69

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 7 - B  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417891		19.50	0.12	3.01	0.034	3.01	22.8	34.9	0.95	352	3.10	2.82	12.00	42.6	0.021	37.9
40417892		22.2	0.19	3.38	0.052	2.45	33.8	59.3	1.71	647	2.60	2.52	11.40	67.7	0.054	20.5
40417893		20.3	0.21	3.40	0.037	2.18	29.5	45.3	1.94	692	2.28	2.46	7.04	78.5	0.072	15.25
40417894		21.6	0.23	3.87	0.042	2.42	34.4	49.7	2.04	795	2.29	2.49	8.31	86.1	0.086	17.55
40417895		22.2	0.21	4.50	0.041	3.13	38.4	47.2	1.71	584	2.81	2.30	10.35	58.1	0.079	20.1
40417896		22.3	0.26	9.19	0.029	4.99	80.8	20.3	0.50	344	1.46	2.52	10.90	10.25	0.035	63.9
40417897		20.6	0.20	3.55	0.044	2.47	34.2	59.5	2.02	667	2.26	2.35	8.15	74.1	0.064	19.00
40417898		21.2	0.22	3.36	0.041	2.37	32.9	53.7	2.09	744	1.79	2.42	7.57	84.6	0.074	15.55
40417899		17.25	0.16	4.49	0.013	5.04	39.4	9.4	0.24	151.0	3.15	2.40	4.65	2.54	0.017	61.0
40417900		25.1	0.29	2.06	0.107	1.09	24.0	11.7	3.09	1285	1.01	2.47	8.92	66.9	0.208	5.92
40417901		21.0	0.21	3.34	0.045	2.42	32.8	48.7	1.99	651	1.97	2.23	7.34	75.9	0.069	17.05
40417902		20.5	0.24	3.57	0.040	2.55	34.4	53.8	2.39	718	2.36	2.21	7.40	83.2	0.081	17.20

\*\*\*\*\* 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  
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Page: 7 - C  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB2225241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417891		92.1	<0.0004	0.09	0.03	9.02	0.069	1.74	199.0	0.78	0.012	19.95	0.176	0.514	22.2	41.4
40417892		117.0	0.0007	0.23	0.04	17.40	0.176	1.60	332	0.79	0.042	13.70	0.341	0.737	6.80	108.5
40417893		80.1	0.0008	0.27	0.05	16.60	0.187	0.96	487	0.49	0.033	7.82	0.346	0.512	2.43	110.5
40417894		92.1	0.0008	0.28	0.06	18.50	0.222	1.15	491	0.53	0.046	8.89	0.379	0.609	2.38	122.5
40417895		112.0	0.0006	0.21	0.04	14.95	0.145	1.44	347	0.64	0.037	12.30	0.325	0.663	4.07	95.5
40417896		127.5	0.0015	0.08	0.02	7.51	0.081	1.36	197.0	0.82	0.021	68.5	0.138	0.751	20.7	16.9
40417897		106.5	0.0017	0.23	0.04	17.70	0.168	1.38	370	0.59	0.039	9.41	0.364	0.632	2.62	116.0
40417898		97.8	0.0014	0.26	0.04	18.50	0.204	1.13	425	0.51	0.042	7.88	0.364	0.617	2.35	120.5
40417899		106.0	0.0004	0.01	0.04	3.54	0.047	0.68	177.0	0.28	<0.005	31.4	0.059	0.719	16.35	7.3
40417900		50.0	0.0014	0.16	0.05	31.3	0.147	1.45	473	0.48	0.015	2.53	1.115	0.231	1.14	214
40417901		93.2	0.0008	0.27	0.08	16.60	0.177	1.19	374	0.53	0.041	8.47	0.349	0.572	2.66	112.0
40417902		87.8	0.0008	0.26	0.10	17.05	0.198	1.02	465	0.49	0.049	8.77	0.369	0.587	2.59	115.0

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 7 - D  
 Total # Pages: 7 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB2225241**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb
40417891		1.060	9.35	38.5	87.7	0.0021	<0.004	<0.002	<1	0.1	0.2
40417892		1.185	16.25	102.5	119.0	0.0019	0.007	<0.002	<1	1.0	1.3
40417893		0.786	14.20	89.1	121.5	0.0026	0.004	<0.002	1	1.2	1.6
40417894		1.040	16.35	96.5	142.0	0.0031	<0.004	<0.002	<1	1.5	1.7
40417895		0.771	15.05	91.5	160.5	0.0025	<0.004	<0.002	<1	1.1	1.2
40417896		0.858	18.90	55.3	257	0.0042	<0.004	<0.002	<1	<0.1	<0.2
40417897		0.760	14.75	98.0	127.0	0.0016	0.004	<0.002	<1	1.3	1.4
40417898		0.635	14.20	98.4	125.5	0.0022	0.004	<0.002	1	2.1	2.1
40417899		0.608	8.83	23.6	134.0	0.0027	<0.004	<0.002	<1	<0.1	<0.2
40417900		0.231	42.5	135.5	63.7	0.0013	<0.004	<0.002	<1	<0.1	<0.2
40417901		0.954	14.60	90.9	123.5	0.0018	0.005	<0.002	1	1.6	1.8
40417902		0.662	14.75	92.4	132.0	0.0021	0.006	<0.002	<1	1.1	1.2

\*\*\*\*\* 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  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 21-OCT-2022  
 Account: RTECILHR

Project: EB80003512

**CERTIFICATE OF ANALYSIS TB22255241**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Au, Pt &amp; Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g)            ME-MS61L</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ME-MS61L</td> <td style="width: 50%;">PGM-MS23L</td> </tr> </table>	ME-MS61L	PGM-MS23L										
ME-MS61L	PGM-MS23L												



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 1  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

**CERTIFICATE TB22266319**

Project: EB80003513  
 P.O. No.: 3105220123  
 This report is for 153 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 19-SEP-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
---	--	---------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
Zr-ICPDil	Zr Overlimit by Dilution	ICP-AES
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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:   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.

2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417776		0.56	0.032	9.09	0.80	560	2.11	0.030	5.62	0.131	62.7	36.8	58.7	1.35	39.3	8.60
40417777		2.89	0.098	7.89	0.72	820	1.19	0.220	3.54	0.108	83.6	29.7	212	2.89	67.1	5.77
40417778		3.95	0.117	7.64	0.12	720	1.58	0.200	2.60	0.079	87.2	17.35	77.5	4.89	46.7	4.10
40417779		5.06	0.108	6.59	0.20	378	1.22	0.069	0.85	0.023	58.0	3.98	22.2	3.76	5.79	1.960
40417780		0.55	0.091	8.58	0.73	670	1.79	0.020	4.95	0.111	55.6	32.6	49.5	1.09	40.7	7.37
40417781		2.33	0.142	7.75	0.12	600	1.33	0.168	2.50	0.084	72.4	18.15	115.5	4.41	42.0	3.91
40417782		3.80	0.106	8.11	0.26	610	1.28	0.180	2.23	0.090	60.3	23.0	113.5	5.38	47.8	4.95
40417783		1.32	0.028	6.35	0.24	520	0.88	0.060	0.56	0.021	19.25	1.140	10.2	1.73	1.28	0.830
40417784		5.34	0.229	7.95	0.15	670	1.15	0.194	2.37	0.105	59.8	26.4	154.0	4.22	61.7	5.24
40417785		5.63	0.094	7.89	0.22	590	1.20	0.156	1.93	0.079	50.6	19.65	108.0	4.78	44.7	4.34
40417786		3.75	0.165	7.98	0.25	520	1.29	0.111	1.78	0.078	64.4	18.70	103.5	5.32	44.4	4.08
40417787		4.06	0.107	7.81	0.14	470	1.43	0.109	1.88	0.067	56.4	19.45	108.5	5.61	45.0	4.33
40417788		5.26	0.097	7.46	0.17	640	1.31	0.173	2.04	0.099	54.5	20.5	114.0	4.75	48.3	4.25
40417789		2.04	0.052	7.07	0.24	500	1.05	0.099	0.62	0.023	61.3	1.085	9.9	2.23	4.29	0.860
40417790		1.88	0.216	7.00	0.41	520	1.01	0.158	0.60	0.022	63.4	1.420	9.6	2.25	7.16	0.840
40417791		3.99	0.035	7.17	0.26	530	1.12	0.129	0.59	0.028	41.5	1.110	10.4	2.26	2.74	0.860
40417792		5.96	0.116	7.88	0.06	750	1.71	0.243	2.69	0.130	78.2	24.9	134.5	6.12	56.4	4.99
40417793		4.70	0.077	7.80	0.18	630	2.41	0.191	2.13	0.070	49.7	21.8	141.5	6.21	44.7	4.67
40417794		2.30	0.101	7.07	0.19	401	1.49	0.245	0.92	0.031	71.8	2.16	9.6	1.58	2.61	0.840
40417795		5.73	0.108	8.18	0.11	510	1.33	0.124	1.96	0.067	57.6	22.3	125.0	6.89	58.4	4.94
40417796		5.38	0.107	7.83	0.15	600	1.47	0.114	2.00	0.068	84.2	18.00	95.2	7.46	61.8	4.43
40417797		5.29	0.064	6.46	0.35	403	1.05	0.534	0.51	0.014	52.5	1.615	17.0	1.88	4.33	1.210
40417798		4.98	0.041	6.99	0.24	580	0.66	0.064	0.43	0.008	30.1	1.225	10.1	1.57	0.87	0.890
40417799		5.38	0.052	6.75	0.18	590	0.85	0.222	0.41	0.012	32.0	1.080	10.0	2.31	0.83	0.880
40417800		0.17	0.508	9.18	4.72	347	0.63	0.151	6.59	0.288	28.9	63.8	1760	2.78	1150	8.30
40417801		1.45	0.040	6.59	0.25	540	0.74	0.080	0.38	0.017	29.6	1.425	10.9	1.90	1.12	0.990
40417802		2.94	0.086	7.79	0.20	640	1.78	0.104	1.63	0.075	105.5	13.55	86.4	6.06	49.0	3.53
40417803		1.01	0.060	7.86	0.35	610	1.52	0.075	0.84	0.030	281	3.05	21.6	2.68	17.50	1.730
40417804		1.86	0.141	7.67	0.24	348	1.73	0.157	1.77	0.079	111.0	16.20	85.2	6.06	69.9	4.24
40417805		5.20	0.063	6.97	0.15	540	0.90	0.103	0.57	0.020	89.3	0.895	7.5	1.70	0.90	0.760
40417806		5.21	0.062	6.78	0.33	490	1.02	0.082	0.69	0.021	165.5	0.780	7.9	1.59	0.73	0.640
40417807		5.43	0.050	7.05	0.23	600	0.75	0.116	0.39	0.013	48.4	0.797	7.4	2.23	0.98	0.710
40417808		5.48	0.048	6.78	0.19	440	0.99	0.111	0.61	0.018	94.9	1.400	8.5	2.11	0.64	1.010
40417809		5.52	0.031	6.77	0.18	500	0.97	0.133	0.44	0.008	114.5	0.963	9.2	2.35	0.95	0.790
40417810		0.50	0.035	8.72	1.19	670	2.39	0.020	4.48	0.092	67.3	24.2	35.6	1.35	28.9	6.22
40417811		5.53	0.034	5.79	0.21	403	0.73	0.091	0.47	0.011	83.3	1.320	12.3	1.84	0.98	1.060
40417812		5.40	0.029	5.84	0.25	448	0.58	0.076	0.37	0.010	32.7	1.640	10.9	1.49	1.48	1.340
40417813		5.40	0.049	5.86	0.33	412	0.77	0.067	0.50	0.011	86.5	1.635	12.2	2.00	0.99	1.240
40417814		3.69	0.073	7.24	0.20	600	1.05	0.071	0.66	0.020	121.5	0.781	9.2	1.70	1.44	0.630
40417815		3.81	0.103	7.49	0.33	590	1.43	0.190	2.52	0.078	83.6	20.9	214	5.88	46.9	3.90



ALS Canada Ltd.  
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Page: 2 - B  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOD		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40417776		24.4	0.18	1.940	0.113	1.52	23.7	13.8	2.91	1355	0.99	2.52	12.40	59.9	0.219	8.50
40417777		19.60	0.17	2.97	0.055	1.69	39.4	36.6	2.74	912	1.49	2.44	5.57	122.0	0.123	13.90
40417778		20.5	0.17	2.87	0.035	1.96	37.8	40.6	1.48	581	1.25	2.63	6.32	47.8	0.091	19.00
40417779		17.20	0.12	3.54	0.028	3.74	25.6	23.3	0.40	253	0.98	2.33	10.15	11.15	0.014	42.9
40417780		23.1	0.19	1.760	0.087	1.95	21.0	11.3	2.41	1100	1.06	2.50	7.08	52.9	0.188	10.45
40417781		19.65	0.15	3.72	0.033	2.26	33.8	43.2	1.76	615	1.41	2.40	6.71	74.3	0.076	17.50
40417782		21.3	0.15	3.19	0.045	2.30	28.4	54.8	1.85	777	1.57	2.76	6.49	65.1	0.074	15.85
40417783		13.10	0.07	2.60	0.014	4.65	8.31	6.8	0.12	114.0	8.00	2.000	3.73	3.03	0.010	71.8
40417784		20.2	0.14	3.23	0.047	2.07	28.2	59.3	1.97	853	1.54	2.54	6.07	81.9	0.071	15.55
40417785		19.85	0.13	3.27	0.039	2.66	22.0	48.6	1.72	618	2.11	2.65	6.04	55.2	0.064	23.7
40417786		17.35	0.12	3.85	0.032	2.25	30.6	55.7	1.57	546	2.05	2.78	6.97	56.8	0.052	19.25
40417787		21.1	0.13	3.26	0.054	2.20	26.8	53.6	1.52	560	1.89	2.84	7.82	56.2	0.056	20.3
40417788		18.90	0.14	3.08	0.033	2.09	25.6	52.5	1.79	737	1.98	2.58	6.06	60.6	0.058	20.2
40417789		14.75	0.12	3.51	0.009	4.81	27.2	7.7	0.12	119.5	0.98	2.46	3.47	2.09	0.012	54.8
40417790		14.65	0.12	4.16	0.010	4.91	28.6	7.5	0.12	113.0	0.87	2.39	3.40	2.33	0.014	59.2
40417791		14.95	0.10	2.16	0.009	4.80	17.10	8.4	0.14	121.5	0.90	2.54	3.51	2.58	0.013	57.2
40417792		20.7	0.17	3.17	0.038	2.18	35.4	59.0	2.38	851	1.36	2.44	6.25	91.6	0.102	24.2
40417793		21.5	0.15	2.84	0.043	2.16	22.0	72.5	2.12	886	1.16	2.71	6.82	80.6	0.086	16.90
40417794		16.10	0.14	7.82	0.014	3.66	30.9	10.9	0.14	128.0	1.02	2.95	3.83	3.83	0.014	57.0
40417795		21.9	0.15	3.34	0.057	2.35	27.2	68.1	1.77	700	1.53	3.07	7.86	68.6	0.061	19.10
40417796		22.7	0.17	3.91	0.045	2.17	38.6	72.5	1.56	628	1.32	2.84	9.04	59.4	0.080	17.90
40417797		16.25	0.23	4.64	0.011	4.24	23.5	11.0	0.17	142.0	1.44	2.44	5.24	4.11	0.012	56.9
40417798		15.15	0.22	1.465	0.013	5.53	13.80	9.5	0.13	112.0	1.09	2.09	3.99	1.49	0.010	52.8
40417799		15.25	0.20	1.355	0.010	4.59	14.70	9.6	0.14	123.0	1.02	2.06	4.13	1.50	0.010	55.6
40417800		22.1	0.17	2.67	0.068	0.86	12.80	41.0	4.40	1100	3.05	1.540	8.21	715	0.068	6.51
40417801		15.10	0.13	1.160	0.012	4.33	13.30	11.4	0.16	136.0	1.00	1.935	4.78	2.11	0.012	73.7
40417802		22.4	0.18	4.79	0.048	2.03	57.3	71.3	1.15	479	1.22	3.36	11.65	39.2	0.058	28.3
40417803		21.2	0.38	50.5	0.024	4.82	121.5	27.2	0.38	240	0.84	2.81	11.30	8.33	0.024	70.1
40417804		23.0	0.21	4.72	0.058	1.83	53.3	69.9	1.44	596	1.30	3.06	13.85	54.4	0.076	21.6
40417805		16.05	0.20	11.75	0.011	4.92	39.6	9.7	0.13	101.5	0.69	2.39	3.53	1.21	0.013	53.5
40417806		15.80	0.30	15.30	0.007	4.53	71.4	10.5	0.11	92.7	0.82	2.57	3.15	1.28	0.017	54.0
40417807		15.35	0.20	2.38	0.011	5.47	21.3	6.6	0.10	97.5	0.75	2.20	3.28	1.23	0.012	64.3
40417808		15.95	0.24	3.64	0.011	4.51	41.5	14.2	0.18	132.5	0.88	2.40	5.27	1.57	0.013	48.2
40417809		15.00	0.25	6.86	0.010	4.92	50.8	8.1	0.13	107.5	1.10	2.34	3.27	1.13	0.015	55.7
40417810		25.9	0.25	2.92	0.072	1.60	28.7	17.7	1.73	917	1.01	3.03	11.15	27.1	0.151	10.40
40417811		13.55	0.19	1.180	0.011	4.12	36.9	9.4	0.16	128.5	1.25	1.940	5.00	1.52	0.012	43.6
40417812		14.50	0.16	1.130	0.013	4.50	14.50	14.5	0.22	147.0	1.06	1.710	7.39	1.56	0.010	43.7
40417813		14.20	0.22	1.945	0.014	4.08	38.0	15.0	0.19	157.0	1.23	1.895	6.06	1.48	0.011	43.9
40417814		16.60	0.25	9.05	0.005	4.97	53.9	8.4	0.11	95.4	1.00	2.60	2.23	2.09	0.015	56.6
40417815		19.50	0.19	3.53	0.030	2.05	40.4	70.1	2.67	603	1.09	2.58	6.45	118.0	0.083	14.15

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 2 - C  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 28-OCT-2022  
Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40417776		75.6	0.0012	0.15	0.06	30.2	0.124	2.36	493	0.65	0.018	2.77	1.070	0.340	1.19	204
40417777		56.4	0.0007	0.31	0.10	19.25	0.124	0.99	733	0.36	0.029	6.27	0.450	0.351	1.69	136.5
40417778		82.7	0.0005	0.26	0.04	11.45	0.104	1.36	907	0.49	0.021	7.30	0.320	0.557	3.67	90.2
40417779		112.5	<0.0004	0.03	0.03	5.91	0.032	1.82	190.5	0.67	0.006	22.2	0.112	0.650	9.06	19.4
40417780		81.2	0.0013	0.14	0.07	23.1	0.121	1.18	477	0.45	0.029	2.67	0.924	0.358	1.44	178.5
40417781		98.2	0.0005	0.21	0.03	12.25	0.132	1.29	459	0.47	0.021	10.70	0.312	0.601	3.97	89.6
40417782		99.5	0.0008	0.24	0.03	17.00	0.162	1.49	424	0.47	0.039	8.46	0.364	0.633	2.98	125.0
40417783		112.5	0.0013	0.01	0.03	2.02	0.011	0.84	187.0	0.31	<0.005	9.26	0.037	0.594	37.4	5.5
40417784		80.3	0.0011	0.34	0.05	17.95	0.223	1.04	421	0.45	0.043	7.59	0.382	0.528	2.74	132.5
40417785		110.0	0.0019	0.21	0.04	15.55	0.146	1.72	328	0.48	0.035	7.22	0.306	0.705	5.59	107.5
40417786		110.5	0.0008	0.17	0.03	11.35	0.126	1.77	336	0.53	0.030	9.24	0.306	0.701	3.10	96.4
40417787		115.5	0.0010	0.20	0.03	14.30	0.145	2.63	300	0.65	0.036	9.01	0.313	0.769	2.93	102.0
40417788		87.3	0.0009	0.22	0.02	13.95	0.145	1.17	398	0.49	0.032	7.51	0.312	0.545	3.55	107.0
40417789		127.5	<0.0004	0.02	0.03	2.01	0.018	1.07	199.0	0.24	<0.005	23.2	0.038	0.654	12.95	3.7
40417790		134.0	<0.0004	0.03	0.03	1.98	0.021	0.94	199.0	0.23	<0.005	25.9	0.037	0.698	14.90	3.7
40417791		120.5	<0.0004	0.03	0.03	2.04	0.013	1.07	207	0.33	<0.005	15.80	0.037	0.701	19.45	3.9
40417792		109.5	0.0006	0.26	0.03	17.25	0.153	1.41	578	0.48	0.026	7.02	0.384	0.671	3.29	125.5
40417793		97.7	0.0006	0.22	0.03	17.25	0.150	2.14	448	0.75	0.025	5.59	0.337	0.647	4.82	114.0
40417794		96.5	<0.0004	0.07	0.02	2.15	0.029	0.83	209	0.29	0.006	28.0	0.035	0.512	20.4	5.5
40417795		142.0	0.0007	0.24	<0.02	17.40	0.201	2.88	333	0.58	0.036	8.47	0.367	0.928	2.30	122.0
40417796		133.0	0.0006	0.22	0.02	15.30	0.134	2.54	500	0.59	0.030	12.05	0.341	0.891	3.46	98.5
40417797		127.5	<0.0004	0.02	0.04	2.79	0.021	1.47	174.0	0.29	<0.005	19.20	0.055	0.659	15.95	5.0
40417798		160.0	<0.0004	<0.01	0.03	1.99	0.011	0.80	202	0.19	<0.005	11.35	0.042	0.820	10.65	2.9
40417799		131.5	<0.0004	0.01	0.03	2.21	0.014	1.08	194.0	0.30	<0.005	11.70	0.044	0.814	17.55	3.0
40417800		31.9	0.0028	0.34	0.50	20.5	0.929	1.87	420	0.48	0.063	1.295	0.785	0.493	0.35	174.0
40417801		127.5	<0.0004	0.01	0.03	2.43	0.010	1.06	185.5	0.34	<0.005	12.05	0.050	0.786	23.4	3.7
40417802		133.5	0.0004	0.13	0.03	9.56	0.098	2.93	379	0.80	0.014	20.2	0.279	0.828	5.01	72.7
40417803		147.5	<0.0004	0.02	0.04	7.00	0.070	1.83	255	0.72	0.005	97.9	0.120	0.781	30.3	12.6
40417804		138.0	0.0005	0.18	0.03	13.30	0.121	3.01	342	0.75	0.020	20.5	0.318	0.807	4.46	80.4
40417805		138.5	<0.0004	<0.01	0.02	2.19	0.019	0.84	206	0.19	<0.005	31.5	0.039	0.719	14.35	2.7
40417806		124.5	<0.0004	<0.01	0.03	2.00	0.028	0.69	206	0.21	<0.005	59.0	0.032	0.656	23.1	2.4
40417807		139.5	<0.0004	0.01	0.04	1.82	0.022	1.03	201	0.24	<0.005	17.90	0.033	0.844	20.7	2.5
40417808		127.0	<0.0004	0.01	0.04	2.99	0.018	1.44	194.5	0.31	<0.005	33.6	0.060	0.659	12.15	3.9
40417809		140.5	<0.0004	0.01	0.04	1.90	0.017	1.11	189.5	0.24	<0.005	42.1	0.035	0.717	18.50	2.5
40417810		87.0	0.0009	0.13	0.07	18.10	0.093	1.71	540	0.59	0.021	3.74	0.752	0.371	1.39	153.5
40417811		116.5	<0.0004	0.01	0.03	2.19	0.024	1.06	162.5	0.24	<0.005	30.6	0.049	0.606	12.55	3.4
40417812		133.0	<0.0004	0.02	0.03	3.41	0.009	1.29	161.5	0.31	<0.005	11.70	0.075	0.708	7.76	5.0
40417813		123.0	<0.0004	0.01	0.03	3.17	0.035	1.21	176.5	0.30	<0.005	31.4	0.068	0.647	12.55	4.5
40417814		138.5	<0.0004	0.01	0.03	1.57	0.019	0.57	249	0.15	<0.005	42.4	0.028	0.713	11.95	3.1
40417815		124.5	0.0004	0.17	0.03	11.45	0.093	1.75	504	0.43	0.016	15.70	0.272	0.762	2.64	82.3

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
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Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	ME-MS61L		ME-MS61L		ME-MS61L		ME-MS61L		PGM-MS23L		Zr-ICPDII	
	W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd	Zr	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	%	
	0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2	0.003	
40417776	0.256	56.1	133.0	62.7	0.0015	0.004	<0.002	<1	<0.1	<0.2		
40417777	0.532	15.05	98.8	117.5	0.0021	0.008	<0.002	1	2.0	2.1		
40417778	0.423	9.80	75.8	99.7	0.0013	0.004	<0.002	<1	0.8	0.8		
40417779	0.626	4.82	47.1	97.1	0.0018	<0.004	<0.002	<1	<0.1	<0.2		
40417780	0.333	37.2	116.0	53.4	0.0013	<0.004	<0.002	<1	<0.1	<0.2		
40417781	0.907	11.55	78.7	131.0	0.0019	0.005	<0.002	<1	0.7	0.6		
40417782	0.699	12.85	93.6	115.5	0.0022	<0.004	<0.002	<1	1.0	1.1		
40417783	0.243	3.51	17.0	67.8	0.0008	0.005	<0.002	<1	<0.1	<0.2		
40417784	8.82	14.25	98.6	120.0	0.0031	0.007	<0.002	1	1.3	1.2		
40417785	1.045	13.70	81.0	111.5	0.0050	0.005	<0.002	1	1.3	1.0		
40417786	5.76	11.15	85.8	135.0	0.0028	0.004	<0.002	1	1.2	1.1		
40417787	1.050	10.95	92.9	113.0	0.0019	<0.004	<0.002	<1	1.1	0.9		
40417788	4.41	11.20	88.5	115.5	0.0023	0.004	<0.002	<1	1.2	1.0		
40417789	0.439	4.42	19.4	98.4	0.0015	0.004	<0.002	<1	<0.1	<0.2		
40417790	0.508	4.94	17.4	117.0	0.0017	<0.004	<0.002	<1	<0.1	<0.2		
40417791	0.212	3.76	20.1	57.0	0.0013	<0.004	<0.002	<1	<0.1	<0.2		
40417792	0.523	13.60	104.0	122.5	0.0018	0.005	<0.002	<1	1.0	0.9		
40417793	0.547	11.50	85.9	99.6	0.0013	<0.004	<0.002	<1	1.3	1.3		
40417794	0.190	6.95	17.8	202	0.0033	0.006	<0.002	<1	<0.1	<0.2		
40417795	0.720	12.20	105.0	114.5	0.0023	<0.004	<0.002	1	1.4	1.3		
40417796	3.48	11.30	95.9	138.5	0.0022	0.005	<0.002	<1	0.8	1.0		
40417797	0.480	4.07	25.5	133.0	0.0028	0.004	<0.002	<1	<0.1	<0.2		
40417798	3.46	1.88	18.0	41.0	0.0017	<0.004	<0.002	<1	<0.1	<0.2		
40417799	0.397	2.21	17.9	38.9	0.0014	0.005	<0.002	<1	<0.1	<0.2		
40417800	0.283	17.95	113.0	101.5	0.0142	0.025	0.182	18	36.0	211		
40417801	2.85	2.92	21.3	31.1	0.0007	<0.004	<0.002	<1	<0.1	<0.2		
40417802	0.671	8.32	103.5	182.0	0.0031	0.005	<0.002	2	0.5	0.3		
40417803	0.365	17.45	43.2	>500	0.0255	0.024	<0.002	<1	<0.1	<0.2	0.132	
40417804	0.564	11.05	105.5	161.5	0.0031	0.006	<0.002	<1	0.5	0.5		
40417805	0.155	5.45	16.4	324	0.0057	0.006	<0.002	<1	<0.1	<0.2		
40417806	0.211	8.27	13.1	418	0.0077	0.008	<0.002	<1	<0.1	<0.2		
40417807	0.176	3.76	16.8	68.6	0.0012	<0.004	<0.002	<1	<0.1	<0.2		
40417808	0.239	4.52	24.1	105.0	0.0017	<0.004	<0.002	<1	<0.1	<0.2		
40417809	2.17	5.92	14.3	190.0	0.0034	0.005	<0.002	<1	<0.1	<0.2		
40417810	0.187	31.5	100.5	107.0	0.0022	<0.004	<0.002	<1	<0.1	<0.2		
40417811	2.95	3.42	22.5	32.5	0.0006	<0.004	<0.002	<1	<0.1	<0.2		
40417812	0.229	1.77	30.5	31.2	0.0007	<0.004	<0.002	<1	<0.1	<0.2		
40417813	2.67	3.72	28.4	55.5	0.0009	0.004	<0.002	<1	<0.1	<0.2		
40417814	0.257	5.90	12.0	254	0.0041	0.006	<0.002	<1	<0.1	<0.2		
40417815	1.365	9.17	74.7	128.5	0.0021	<0.004	<0.002	<1	0.6	0.6		





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 – B  
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Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units LOD	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417816		20.6	0.18	3.77	0.037	2.15	41.2	64.0	1.51	575	2.44	2.72	7.65	58.1	0.065	16.30
40417817		18.75	0.17	2.89	0.028	3.14	44.6	27.3	0.40	249	1.07	2.72	10.15	11.45	0.026	40.4
40417818		19.70	0.18	3.62	0.046	2.48	43.9	73.9	1.90	648	2.61	2.58	8.34	73.5	0.087	15.05
40417819		19.70	0.20	7.30	0.015	3.98	108.5	26.7	0.42	221	0.88	2.64	9.02	6.70	0.050	26.7
40417820		20.2	0.22	7.52	0.012	3.96	106.5	25.9	0.39	220	1.01	2.64	9.14	5.91	0.047	27.4
40417821		21.0	0.22	7.08	0.021	3.58	101.0	27.6	0.42	215	0.88	2.94	8.82	7.53	0.048	27.4
40417822		14.70	0.16	4.12	0.005	5.20	27.0	7.2	0.12	93.1	0.78	2.14	2.99	1.25	0.011	57.6
40417823		14.20	0.19	1.410	0.013	4.10	35.7	13.7	0.23	153.5	1.01	1.920	5.38	1.41	0.011	40.6
40417824		14.00	0.16	1.360	0.010	4.73	23.9	11.5	0.14	109.5	0.85	2.07	3.43	1.13	0.010	47.3
40417825		15.80	0.17	2.11	0.010	4.19	25.3	12.4	0.11	110.5	0.78	2.31	3.25	1.09	0.013	50.9
40417826		22.3	0.27	8.19	0.029	3.80	116.5	60.5	0.37	239	1.05	2.83	11.40	4.79	0.047	42.5
40417827		15.70	0.22	8.98	0.008	5.07	45.9	14.1	0.09	98.7	0.91	2.36	2.97	1.16	0.013	65.6
40417903		16.85	0.21	4.17	0.015	4.69	39.2	22.7	0.20	161.5	1.01	2.34	5.62	3.16	0.012	57.2
40417904		20.6	0.33	11.50	0.034	4.02	129.0	30.6	0.40	259	0.99	2.55	11.35	3.22	0.065	60.9
40417905		16.15	0.18	2.75	0.009	5.02	24.5	12.0	0.12	111.0	1.23	2.24	4.49	1.38	0.012	62.9
40417906		18.05	0.20	3.30	0.016	4.45	33.3	20.6	0.24	178.5	1.47	2.44	6.66	6.40	0.015	56.4
40417907		17.75	0.23	5.00	0.014	4.56	56.0	10.7	0.16	128.5	1.16	2.45	6.22	2.28	0.013	55.5
40417908		23.8	0.18	4.28	0.035	1.84	64.4	61.0	1.38	476	0.64	2.82	9.18	45.4	0.154	19.55
40417909		21.9	0.19	4.42	0.034	1.87	67.5	53.2	1.60	519	0.65	3.05	8.83	51.0	0.177	17.05
40417910		20.4	0.18	4.24	0.031	1.87	68.5	52.6	1.60	518	0.60	2.92	8.68	49.7	0.172	17.55
40417911		19.95	0.12	3.18	0.042	2.12	31.8	48.1	1.79	659	1.57	2.66	6.61	72.1	0.079	16.65
40417912		19.25	0.12	2.75	0.035	1.85	31.6	43.6	2.18	692	1.25	2.46	6.28	92.5	0.081	14.50
40417913		19.00	0.13	2.88	0.035	2.20	37.8	48.4	1.76	662	1.94	2.49	6.41	67.0	0.089	17.85
40417914		20.5	0.12	3.01	0.038	2.09	29.4	60.9	1.87	694	1.62	2.60	6.34	72.2	0.076	16.70
40417915		20.7	0.12	3.28	0.043	2.11	34.5	56.2	1.85	670	1.54	2.65	6.49	90.6	0.075	21.8
40417916		17.55	0.13	2.88	0.039	1.92	38.3	47.2	2.04	612	1.04	2.27	6.50	85.9	0.103	17.25
40417917		17.70	0.11	3.05	0.036	1.74	28.4	45.9	1.55	590	1.83	2.26	6.01	54.2	0.061	15.80
40417918		21.1	0.11	4.73	0.028	2.88	33.5	24.0	0.39	297	3.04	3.24	11.50	17.40	0.014	50.9
40417919		22.4	0.13	3.21	0.053	2.29	34.3	63.7	1.50	604	1.53	2.78	11.65	63.3	0.056	18.20
40417920		22.2	0.11	2.54	0.065	0.83	12.55	40.2	4.35	1080	2.91	1.555	8.21	693	0.069	6.43
40417921		19.95	0.06	2.71	0.032	1.12	17.20	31.4	0.46	254	3.68	3.23	14.80	19.25	0.010	35.2
40417922		20.4	0.13	3.84	0.055	2.35	33.1	63.1	1.55	684	2.24	2.66	8.53	63.1	0.058	17.35
40417923		17.60	0.11	3.50	0.031	1.78	33.1	42.8	1.33	672	1.47	2.35	6.02	51.1	0.055	19.80
40417924		18.65	0.12	3.01	0.034	1.89	34.1	43.0	1.66	628	1.47	2.47	6.44	66.9	0.070	16.30
40417925		15.10	0.08	2.39	0.011	3.83	20.1	12.1	0.23	135.0	2.53	2.58	3.77	6.01	0.011	49.8
40417926		15.35	0.07	2.39	0.012	4.29	10.65	11.6	0.23	145.5	1.35	2.28	4.47	6.26	0.010	63.9
40417927		20.7	0.12	2.91	0.039	2.03	28.6	53.1	1.86	728	2.35	2.63	6.47	77.7	0.071	19.00
40417928		18.65	0.11	2.96	0.043	2.03	27.8	57.6	1.87	788	1.76	2.37	6.41	78.7	0.062	16.90
40417929		20.5	0.13	3.22	0.046	2.14	31.0	52.4	2.31	771	1.78	2.52	7.53	91.2	0.069	16.40
40417930		24.9	0.16	2.24	0.090	2.05	24.8	17.4	2.09	992	1.08	2.58	11.95	34.8	0.167	13.10



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

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - C  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
40417816		131.5	0.0009	0.22	0.03	13.20	0.151	1.49	432	0.50	0.032	12.45	0.315	0.800	3.53	96.2
40417817		106.5	<0.0004	0.04	0.03	5.45	0.038	2.13	226	0.56	<0.005	29.3	0.128	0.598	16.05	21.2
40417818		150.0	0.0010	0.22	0.03	14.45	0.174	1.59	537	0.58	0.033	10.95	0.359	0.873	2.58	113.5
40417819		126.0	<0.0004	0.07	0.03	2.61	0.064	1.14	414	0.52	0.006	36.7	0.210	0.661	3.00	28.0
40417820		127.0	<0.0004	0.06	0.03	2.45	0.065	1.10	415	0.53	0.006	35.5	0.207	0.667	2.96	26.3
40417821		118.5	<0.0004	0.05	0.02	2.92	0.065	1.57	409	0.47	<0.005	32.6	0.206	0.620	2.63	27.6
40417822		126.5	<0.0004	0.01	0.03	1.65	0.016	0.71	230	0.17	<0.005	20.1	0.034	0.829	18.50	2.8
40417823		119.0	<0.0004	0.01	0.03	3.14	0.014	1.19	186.0	0.28	<0.005	28.6	0.066	0.632	11.65	4.8
40417824		125.0	<0.0004	0.01	0.02	2.02	0.012	0.86	212	0.20	<0.005	18.40	0.044	0.696	17.15	3.5
40417825		119.5	<0.0004	<0.01	0.04	1.98	0.012	1.32	206	0.29	<0.005	19.55	0.037	0.752	12.05	3.0
40417826		140.0	<0.0004	0.03	0.02	3.68	0.061	2.13	332	0.63	<0.005	39.9	0.218	0.759	3.70	25.9
40417827		149.0	<0.0004	0.01	0.03	2.01	0.020	1.16	212	0.24	<0.005	35.2	0.036	0.770	26.9	3.1
40417903		146.0	0.0005	0.01	0.03	3.56	0.023	1.79	205	0.33	<0.005	29.7	0.075	0.736	10.25	5.6
40417904		147.0	0.0005	0.02	0.06	5.84	0.046	2.50	232	0.66	<0.005	81.7	0.166	0.771	8.98	18.4
40417905		143.5	<0.0004	0.01	0.02	2.22	0.018	0.94	211	0.21	<0.005	19.40	0.048	0.792	30.9	3.8
40417906		150.0	0.0004	0.02	0.04	4.30	0.020	1.64	207	0.41	<0.005	24.1	0.084	0.789	19.40	13.6
40417907		146.5	0.0009	0.02	0.05	2.82	0.027	1.39	241	0.41	<0.005	39.9	0.063	0.751	12.10	4.9
40417908		109.0	<0.0004	0.21	0.04	8.85	0.029	2.04	1015	0.51	0.005	11.30	0.381	0.693	3.19	73.9
40417909		94.9	0.0006	0.30	0.05	9.60	0.040	1.66	1115	0.53	0.006	9.32	0.409	0.563	2.09	78.7
40417910		96.9	<0.0004	0.30	0.04	8.91	0.050	1.63	1105	0.50	0.006	9.04	0.407	0.586	1.91	79.5
40417911		87.4	0.0008	0.23	0.04	18.70	0.164	1.13	460	0.48	0.047	7.68	0.347	0.478	1.91	116.0
40417912		62.8	0.0011	0.25	0.04	16.15	0.192	1.08	607	0.43	0.046	6.85	0.325	0.391	1.82	108.5
40417913		92.1	0.0012	0.28	0.04	14.85	0.207	1.23	547	0.45	0.031	8.93	0.331	0.469	2.20	103.0
40417914		68.9	0.0025	0.25	0.05	18.45	0.184	1.06	435	0.48	0.036	7.14	0.371	0.448	1.92	124.5
40417915		77.7	0.0009	0.26	0.05	16.70	0.205	1.13	451	0.51	0.047	9.61	0.344	0.456	2.88	112.0
40417916		67.9	0.0004	0.26	0.05	13.65	0.174	1.75	571	0.52	0.024	8.05	0.355	0.441	2.21	98.9
40417917		56.0	0.0008	0.24	0.05	12.90	0.176	0.95	377	0.44	0.030	7.11	0.311	0.374	1.90	95.9
40417918		93.1	0.0007	0.04	0.05	6.75	0.053	1.88	264	0.65	0.007	26.5	0.127	0.497	15.70	26.1
40417919		137.0	0.0008	0.18	0.03	16.40	0.164	2.68	378	0.88	0.031	11.50	0.359	0.735	2.54	112.5
40417920		16.75	0.0031	0.34	0.50	21.7	0.979	1.73	427	0.47	0.070	1.140	0.768	0.495	0.32	178.0
40417921		52.1	<0.0004	0.03	0.05	6.54	0.035	1.82	246	0.83	0.005	10.00	0.132	0.341	20.3	31.9
40417922		126.5	0.0008	0.20	0.03	16.60	0.151	2.26	323	0.61	0.033	11.05	0.344	0.724	3.05	113.0
40417923		61.9	0.0006	0.32	0.07	13.00	0.213	1.00	422	0.44	0.036	9.03	0.305	0.383	2.30	93.6
40417924		65.6	0.0005	0.24	0.06	13.35	0.153	1.05	465	0.44	0.028	8.25	0.318	0.422	1.84	97.2
40417925		101.5	0.0006	0.03	0.04	2.36	0.033	0.97	239	0.26	<0.005	14.10	0.052	0.465	17.35	11.1
40417926		113.5	<0.0004	0.03	0.04	2.57	0.020	0.99	233	0.23	<0.005	8.09	0.059	0.531	41.5	10.8
40417927		79.5	0.0009	0.23	0.04	16.55	0.174	1.14	393	0.45	0.036	6.80	0.357	0.465	1.80	114.5
40417928		69.4	0.0010	0.28	0.05	16.70	0.203	1.01	381	0.45	0.036	6.85	0.357	0.421	1.83	120.5
40417929		84.1	0.0011	0.28	0.04	18.30	0.238	1.44	432	0.55	0.043	8.33	0.350	0.504	2.46	124.0
40417930		102.5	0.0014	0.14	0.10	23.3	0.088	1.87	510	0.67	0.020	3.95	0.810	0.434	1.58	176.0

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - D  
 Total # Pages: 5 (A - D)  
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 Finalized Date: 28-OCT-2022  
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Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	Zr-ICPDII
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	%
40417816	0.522	10.75	79.1	141.0	0.0022	0.005	<0.002	1	1.3	1.2		0.003
40417817	1.815	7.20	47.3	94.7	0.0021	<0.004	<0.002	<1	<0.1	<0.2		
40417818	0.484	12.35	91.1	138.0	0.0025	0.004	<0.002	1	1.2	1.2		
40417819	1.175	6.25	47.1	295	0.0032	<0.004	<0.002	<1	<0.1	<0.2		
40417820	0.483	5.99	47.8	301	0.0039	0.005	<0.002	<1	<0.1	<0.2		
40417821	0.310	5.14	52.5	288	0.0031	0.006	<0.002	<1	<0.1	<0.2		
40417822	0.357	3.21	17.5	118.5	0.0019	0.004	<0.002	<1	<0.1	<0.2		
40417823	0.219	3.23	23.0	41.4	0.0007	<0.004	<0.002	1	<0.1	<0.2		
40417824	0.514	2.46	15.7	39.4	0.0009	<0.004	<0.002	<1	<0.1	<0.2		
40417825	0.269	3.38	16.3	61.3	0.0007	<0.004	<0.002	<1	<0.1	<0.2		
40417826	0.607	7.43	59.7	322	0.0036	0.006	<0.002	<1	<0.1	<0.2		
40417827	0.297	6.04	15.2	250	0.0039	0.004	<0.002	<1	<0.1	<0.2		
40417903	11.15	4.49	30.5	124.0	0.0021	<0.004	<0.002	<1	<0.1	<0.2		
40417904	4.82	15.80	62.9	388	0.0058	0.009	<0.002	<1	<0.1	<0.2		
40417905	0.158	3.20	20.0	78.9	0.0012	<0.004	<0.002	<1	<0.1	<0.2		
40417906	3.34	4.75	32.4	100.0	0.0013	<0.004	<0.002	1	<0.1	<0.2		
40417907	18.30	5.53	22.8	152.0	0.0020	0.005	<0.002	<1	<0.1	<0.2		
40417908	2.33	9.23	89.3	192.5	0.0050	0.014	<0.002	<1	<0.1	<0.2		
40417909	4.38	9.61	89.0	196.5	0.0045	0.020	<0.002	<1	<0.1	<0.2		
40417910	2.15	9.51	91.1	188.0	0.0044	0.013	<0.002	<1	<0.1	<0.2		
40417911	2.13	13.85	84.5	125.5	0.0041	0.009	<0.002	<1	1.0	0.9		
40417912	0.438	12.20	77.4	108.5	0.0033	0.008	<0.002	1	1.5	1.5		
40417913	2.03	12.65	75.3	115.5	0.0034	0.009	<0.002	1	1.6	1.3		
40417914	0.659	13.15	87.1	117.0	0.0043	0.008	0.002	1	1.6	1.4		
40417915	0.561	12.70	86.5	126.0	0.0050	0.013	0.003	1	4.4	2.7		
40417916	0.400	12.50	81.5	117.0	0.0032	0.008	<0.002	<1	1.0	0.9		
40417917	0.316	11.60	78.6	119.5	0.0033	0.006	<0.002	<1	0.9	0.9		
40417918	0.444	6.76	48.6	140.5	0.0055	0.010	<0.002	<1	<0.1	<0.2		
40417919	0.507	12.80	105.5	122.0	0.0033	0.008	<0.002	<1	1.1	1.1		
40417920	0.258	19.10	111.5	103.5	0.0560	0.026	0.186	22	45.3	241		
40417921	0.440	3.29	54.7	84.6	0.0031	0.007	<0.002	<1	0.1	<0.2		
40417922	0.539	12.30	93.0	142.5	0.0045	0.007	<0.002	3	2.4	4.2		
40417923	0.473	12.05	82.6	136.5	0.0040	0.007	<0.002	<1	0.7	0.6		
40417924	0.430	11.50	80.7	122.5	0.0031	0.009	<0.002	1	1.3	1.2		
40417925	0.184	3.87	21.5	75.2	0.0019	<0.004	<0.002	<1	<0.1	<0.2		
40417926	1.565	2.58	21.1	73.9	0.0024	<0.004	<0.002	<1	<0.1	<0.2		
40417927	0.571	12.10	95.6	111.0	0.0029	0.005	<0.002	<1	0.9	0.9		
40417928	2.97	13.80	96.9	120.5	0.0027	0.008	<0.002	2	2.1	2.1		
40417929	0.604	13.65	90.3	128.5	0.0037	0.005	<0.002	<1	1.6	1.5		
40417930	1.060	41.9	112.0	79.6	0.0030	0.005	<0.002	<1	0.3	<0.2		

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - A  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
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 Account: RTECILHR

Project: EB80003513

CERTIFICATE OF ANALYSIS TB22266319

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417931		5.72	0.098	7.80	0.30	680	1.33	0.269	2.22	0.095	58.2	24.0	122.5	4.77	53.3	4.68
40417932		5.55	0.107	7.71	0.45	600	1.35	0.185	2.30	0.075	63.9	21.2	129.5	4.29	53.6	4.22
40417933		5.87	0.087	7.91	0.26	630	1.21	0.215	2.67	0.082	56.6	22.7	103.0	3.59	52.0	4.46
40417934		5.65	0.070	8.06	0.27	720	1.29	0.155	2.26	0.059	60.7	19.35	109.0	3.26	42.4	4.10
40417935		5.68	0.085	7.55	0.19	670	1.22	0.184	2.51	0.081	61.4	22.5	143.0	3.15	48.9	4.34
40417936		3.12	0.076	7.26	0.38	660	1.37	0.191	3.19	0.088	45.0	32.9	471	5.98	46.8	4.56
40417937		1.33	0.054	7.49	0.28	890	1.90	0.049	1.03	0.029	43.8	2.69	11.4	1.39	11.70	1.090
40417938		2.24	0.089	7.86	0.20	520	1.41	0.113	2.01	0.051	73.1	17.90	112.5	6.44	40.2	4.23
40417939		1.15	0.034	7.45	0.19	890	0.89	0.059	0.81	0.029	15.20	2.20	16.2	1.86	5.76	0.980
40417940		2.50	0.093	7.85	0.35	610	1.45	0.163	2.66	0.080	59.1	23.0	153.0	4.33	46.0	4.44
40417941		2.20	0.096	7.67	0.23	600	1.47	0.155	2.61	0.081	55.8	22.7	145.0	4.30	44.7	4.34
40417942		5.58	0.098	7.80	0.16	700	1.28	0.158	2.16	0.077	55.7	20.0	130.5	3.62	46.9	4.07
40417943		5.55	0.088	7.82	0.17	650	1.21	0.249	2.98	0.098	69.0	28.5	202	4.52	63.4	5.12
40417944		5.65	0.087	7.73	0.26	560	1.46	0.220	2.30	0.076	44.8	21.3	149.5	5.34	46.9	3.84
40417945		5.60	0.063	8.04	0.29	680	1.33	0.208	2.23	0.086	55.8	26.6	167.0	4.71	51.3	4.88
40417946		5.67	0.082	7.75	0.41	610	1.29	0.222	2.12	0.085	54.5	21.9	113.0	4.32	52.7	4.22
40417947		5.68	0.075	7.83	0.19	630	1.16	0.150	2.21	0.080	57.6	23.5	129.0	4.07	49.1	4.32
40417948		5.73	0.086	7.70	0.26	660	1.17	0.189	2.37	0.086	56.6	24.6	129.0	3.66	55.7	4.63
40417949		5.63	0.096	7.59	0.28	610	1.53	0.217	2.56	0.092	71.9	20.7	109.5	3.38	47.8	4.11
40417950		0.17	0.447	8.78	5.00	344	0.60	0.121	6.55	0.249	27.2	66.4	1725	2.32	1135	8.26
40417951		5.03	0.100	6.92	0.41	520	1.16	0.142	0.64	0.019	98.1	0.999	7.6	2.13	0.94	0.760
40417952		5.50	0.082	6.91	0.34	510	1.13	0.099	0.55	0.013	120.0	0.799	8.1	2.14	0.98	0.710
40417953		5.02	0.042	6.51	0.41	460	1.28	0.306	0.59	0.012	110.0	1.070	10.4	2.46	1.18	0.980
40417954		5.34	0.042	6.75	0.34	590	0.88	0.047	0.53	0.015	70.6	0.842	7.5	1.88	0.82	0.710
40417955		5.38	0.067	6.93	0.41	530	1.02	0.036	0.77	0.020	108.5	0.811	8.0	1.35	0.97	0.810
40417956		5.40	0.045	7.06	0.17	680	0.88	0.160	0.63	0.015	131.5	1.295	6.9	1.95	0.76	0.940
40417995		5.78	0.106	8.03	0.21	720	1.42	0.167	2.68	0.090	71.0	21.4	102.5	3.07	50.8	4.31
40417996		5.31	0.079	7.97	0.34	690	1.16	0.157	2.38	0.094	61.1	22.7	154.0	3.60	48.5	4.36
40417997		5.02	0.079	8.22	0.73	820	1.47	0.169	1.92	0.108	65.2	24.8	154.5	2.28	48.9	4.75
40417998		5.19	0.086	7.69	0.44	560	1.43	0.181	1.52	0.042	60.7	19.80	101.0	2.16	48.9	4.17
40417999		2.55	0.075	8.02	0.24	580	1.25	0.123	1.99	0.150	65.8	20.5	114.0	2.38	46.9	4.11
40418000		2.82	0.089	7.78	0.17	680	1.23	0.147	2.36	0.246	61.7	21.8	176.0	2.24	42.3	4.34
40418001		3.86	0.079	7.91	0.24	750	1.43	0.164	2.64	0.113	62.7	23.7	155.5	2.48	50.3	4.63
40418002		2.86	0.046	7.30	0.20	438	1.50	0.071	0.74	0.043	8.04	1.425	7.9	1.49	3.20	0.730
40418003		4.16	0.134	8.28	0.21	139	2.18	0.065	1.72	0.048	7.83	3.03	10.5	1.61	1.95	1.170
40418004		2.63	0.050	7.63	0.24	500	1.49	0.077	0.81	0.024	42.0	1.670	9.5	1.39	3.50	0.930
40418005		1.33	0.256	7.10	0.20	670	1.05	0.065	0.67	0.030	96.9	2.33	9.8	1.78	3.18	1.150
40418006		3.25	0.125	8.26	0.26	700	1.29	0.147	1.90	0.118	60.1	24.9	137.0	4.47	48.0	4.65
40418007		2.97	0.093	8.27	0.28	970	1.40	0.186	2.09	0.160	64.5	24.1	133.0	1.81	45.0	4.64
40418008		3.35	0.070	8.56	0.34	226	2.65	0.089	1.85	0.056	15.60	6.52	33.5	1.73	14.30	1.920



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - B  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

CERTIFICATE OF ANALYSIS TB22266319

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
40417931		19.85	0.12	3.00	0.038	2.10	29.1	46.8	1.90	722	2.13	2.51	7.77	64.5	0.065	17.65
40417932		19.40	0.12	3.41	0.037	1.97	32.0	46.0	1.64	643	1.68	2.58	6.94	67.9	0.068	16.45
40417933		19.85	0.12	2.51	0.040	2.21	27.7	37.8	1.72	732	1.89	2.49	6.19	60.2	0.072	16.75
40417934		18.05	0.12	3.03	0.035	2.34	31.1	32.4	1.51	637	1.41	2.65	6.20	58.7	0.059	17.25
40417935		19.30	0.12	3.06	0.033	1.93	29.5	34.3	1.82	672	1.33	2.64	6.71	78.8	0.070	15.70
40417936		17.20	0.12	2.28	0.035	2.51	20.9	64.7	4.67	733	1.18	2.53	5.75	236	0.093	14.05
40417937		18.40	0.09	2.61	0.011	4.01	23.7	11.6	0.21	129.5	0.74	2.76	4.05	6.08	0.018	45.1
40417938		20.7	0.14	3.98	0.043	2.13	35.7	41.5	1.51	567	1.49	2.93	9.00	58.8	0.064	19.90
40417939		15.00	0.07	0.756	0.009	4.25	6.22	8.9	0.23	146.0	0.72	2.19	3.21	8.18	0.104	52.0
40417940		19.25	0.12	2.77	0.034	2.01	29.4	41.5	2.09	685	1.26	2.60	6.75	77.0	0.075	15.35
40417941		19.65	0.12	2.83	0.037	2.03	26.8	41.6	1.98	685	1.32	2.66	6.90	76.3	0.071	16.10
40417942		18.65	0.11	2.90	0.035	2.20	28.2	37.9	1.66	627	1.89	2.60	6.15	70.7	0.062	16.85
40417943		20.3	0.15	3.01	0.042	1.91	32.6	46.8	2.66	852	1.45	2.35	6.04	142.0	0.082	12.70
40417944		20.3	0.10	2.63	0.034	1.82	22.0	40.4	1.76	590	1.22	2.74	5.59	74.4	0.062	12.80
40417945		21.4	0.12	2.92	0.040	2.45	26.7	57.5	2.20	713	1.44	2.47	6.35	85.7	0.076	14.15
40417946		21.0	0.11	2.72	0.042	2.11	26.9	50.4	1.56	625	1.51	2.58	6.23	64.0	0.063	16.05
40417947		21.4	0.13	2.86	0.040	2.04	27.9	56.3	1.75	635	1.73	2.67	6.14	76.9	0.071	14.25
40417948		21.0	0.12	3.11	0.044	2.03	28.1	46.9	1.82	704	1.31	2.38	6.81	71.5	0.070	15.65
40417949		21.5	0.13	2.83	0.048	1.94	35.0	42.1	1.71	635	1.41	2.61	8.25	56.8	0.078	16.55
40417950		22.5	0.11	2.29	0.061	0.82	11.60	39.7	4.29	1075	2.71	1.530	7.63	688	0.068	5.90
40417951		16.50	0.13	7.27	0.011	4.40	44.2	11.6	0.13	112.5	0.75	2.54	2.86	1.48	0.015	63.3
40417952		15.80	0.16	3.58	0.009	4.58	55.4	9.6	0.12	104.0	0.87	2.49	2.27	1.39	0.018	51.1
40417953		15.70	0.16	4.42	0.012	3.97	51.5	10.6	0.15	136.0	1.10	2.41	3.40	2.12	0.013	44.7
40417954		14.25	0.12	4.20	0.008	4.90	34.6	9.5	0.10	95.0	0.86	2.21	2.59	1.29	0.011	55.6
40417955		16.20	0.14	6.39	0.011	4.19	49.0	11.2	0.10	96.9	0.87	2.60	2.73	1.39	0.014	58.7
40417956		16.70	0.18	5.59	0.010	4.90	60.8	14.0	0.15	117.0	0.70	2.32	4.85	1.36	0.015	53.9
40417995		20.4	0.15	2.69	0.040	2.16	35.4	40.2	1.82	649	1.56	2.59	6.32	64.7	0.081	18.30
40417996		19.90	0.13	2.97	0.041	2.07	30.9	48.3	1.95	675	1.43	2.66	6.20	67.4	0.067	15.85
40417997		20.5	0.14	2.95	0.042	2.18	32.2	48.8	2.38	818	1.82	2.52	6.46	78.9	0.088	19.95
40417998		20.0	0.11	2.90	0.039	1.86	31.6	55.3	1.94	705	1.21	2.83	7.05	55.4	0.071	10.25
40417999		20.1	0.13	3.17	0.042	1.73	34.3	50.9	1.80	745	1.53	2.93	6.61	60.6	0.067	19.25
40418000		20.8	0.13	2.94	0.044	1.80	31.9	52.0	2.18	852	1.69	2.72	6.24	73.3	0.069	24.2
40418001		20.9	0.13	2.79	0.045	2.11	31.2	55.3	2.36	956	1.08	2.38	6.75	79.9	0.089	19.95
40418002		18.40	0.06	3.21	0.011	3.75	3.83	12.0	0.21	133.5	0.63	3.09	3.05	3.89	0.007	42.7
40418003		21.1	0.05	1.340	0.014	1.44	3.77	19.9	0.35	193.0	0.54	4.22	5.29	6.56	0.015	26.6
40418004		18.75	0.08	2.82	0.011	3.65	20.8	14.8	0.28	166.5	0.88	3.32	4.26	3.15	0.013	42.1
40418005		16.40	0.14	5.96	0.021	4.59	47.7	16.4	0.30	187.5	0.73	2.42	5.13	4.76	0.023	47.6
40418006		22.1	0.13	3.03	0.046	2.14	29.4	65.2	1.92	841	1.51	2.95	6.46	72.0	0.069	22.0
40418007		22.4	0.13	2.91	0.046	1.97	32.8	52.6	2.20	912	1.77	2.65	6.80	70.6	0.080	14.05
40418008		23.9	0.07	3.38	0.023	1.34	6.83	31.5	0.65	301	0.73	4.27	8.50	18.70	0.033	26.0



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 604 984 0221 Fax: +1 604 984 0218  
www.alsglobal.com/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 4 - C  
Total # Pages: 5 (A - D)  
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Project: EB80003513

### CERTIFICATE OF ANALYSIS TB22266319

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40417931		92.1	0.0009	0.29	0.04	17.25	0.197	1.32	418	0.62	0.036	8.12	0.353	0.494	2.30	117.0
40417932		76.0	0.0011	0.28	0.06	14.55	0.196	1.21	452	0.52	0.048	8.84	0.325	0.464	3.22	103.0
40417933		78.1	0.0007	0.25	0.04	16.25	0.179	1.21	496	0.41	0.039	5.74	0.344	0.445	3.23	115.0
40417934		71.3	0.0007	0.25	0.08	13.00	0.163	1.03	434	0.44	0.030	9.65	0.312	0.412	3.14	98.0
40417935		64.6	0.0008	0.25	0.06	15.10	0.184	0.97	466	0.50	0.038	7.30	0.335	0.433	1.90	108.0
40417936		45.6	0.0008	0.14	0.04	14.70	0.155	1.45	526	0.45	0.021	4.48	0.295	0.520	1.60	110.0
40417937		84.2	<0.0004	0.08	0.04	2.50	0.044	0.99	303	0.42	0.008	14.90	0.055	0.388	7.01	10.1
40417938		127.0	0.0017	0.22	0.02	14.65	0.156	2.76	364	0.66	0.040	14.95	0.315	0.754	3.12	91.5
40417939		102.0	<0.0004	0.03	0.03	2.24	0.038	0.95	277	0.22	<0.005	2.33	0.048	0.723	4.17	9.7
40417940		98.4	0.0007	0.22	0.03	15.70	0.157	1.50	455	0.51	0.027	6.81	0.338	0.552	2.44	110.0
40417941		90.0	0.0006	0.21	0.03	14.90	0.143	1.59	451	0.52	0.024	6.64	0.333	0.557	2.64	108.0
40417942		74.4	0.0019	0.23	0.05	14.05	0.143	1.08	435	0.47	0.036	7.41	0.307	0.454	2.00	102.0
40417943		65.5	0.0008	0.30	0.04	19.20	0.172	1.09	475	0.42	0.035	6.21	0.374	0.418	1.83	130.0
40417944		65.9	0.0007	0.20	0.03	12.90	0.128	1.03	430	0.52	0.029	5.27	0.304	0.458	2.35	100.5
40417945		93.1	<0.0004	0.21	0.07	16.40	0.158	1.14	401	0.46	0.034	7.11	0.367	0.540	2.04	131.0
40417946		70.6	0.0008	0.25	0.07	13.95	0.213	1.10	426	0.49	0.036	6.97	0.329	0.455	2.14	109.0
40417947		68.5	0.0009	0.23	0.05	14.75	0.162	1.01	426	0.43	0.039	6.69	0.343	0.454	1.77	112.5
40417948		64.3	0.0008	0.22	0.04	14.80	0.172	1.13	465	0.50	0.032	7.65	0.351	0.471	2.02	119.5
40417949		71.4	0.0006	0.19	0.05	13.10	0.142	1.32	469	0.54	0.041	9.54	0.311	0.462	2.93	105.5
40417950		15.60	0.0031	0.34	0.51	19.15	0.930	1.65	425	0.46	0.068	1.170	0.777	0.483	0.30	175.5
40417951		130.0	<0.0004	<0.01	0.04	1.90	0.015	1.09	205	0.24	<0.005	41.7	0.040	0.618	68.2	3.3
40417952		138.0	0.0006	0.01	0.03	1.42	0.023	0.96	201	0.20	<0.005	49.7	0.028	0.652	35.8	2.5
40417953		119.0	<0.0004	0.01	0.05	1.88	0.017	1.11	187.0	0.29	<0.005	45.0	0.041	0.566	34.6	3.7
40417954		137.5	0.0008	0.01	0.03	1.44	0.016	0.67	202	0.18	<0.005	31.2	0.035	0.654	42.6	2.9
40417955		116.5	<0.0004	0.01	0.03	1.54	0.018	0.64	203	0.13	<0.005	41.2	0.036	0.551	27.6	3.0
40417956		147.0	0.0005	0.01	0.03	2.51	0.018	0.98	209	0.22	<0.005	48.4	0.056	0.691	7.63	4.6
40417995		75.9	0.0010	0.27	0.05	13.25	0.189	1.65	528	0.48	0.032	8.35	0.328	0.467	2.60	108.5
40417996		74.1	0.0009	0.22	0.05	13.85	0.144	1.23	470	0.46	0.030	8.19	0.326	0.460	1.95	113.0
40417997		88.8	0.0009	0.23	0.05	14.30	0.167	1.32	518	0.46	0.028	7.83	0.352	0.523	2.24	119.5
40417998		79.6	0.0009	0.26	0.04	12.90	0.179	2.06	396	0.56	0.031	8.40	0.308	0.438	3.38	105.5
40417999		66.7	0.0008	0.22	0.04	13.05	0.158	1.52	438	0.51	0.028	9.02	0.323	0.384	2.36	105.5
40418000		65.1	0.0011	0.19	0.04	14.55	0.141	1.34	433	0.51	0.024	8.38	0.322	0.411	2.20	109.5
40418001		80.0	0.0011	0.23	0.05	15.35	0.152	1.59	515	0.48	0.032	6.88	0.354	0.446	2.60	117.5
40418002		102.5	<0.0004	0.03	0.02	1.64	0.019	0.83	252	0.20	0.005	2.94	0.040	0.449	18.05	5.8
40418003		45.3	0.0004	0.03	0.03	3.01	0.012	1.71	280	0.39	<0.005	1.785	0.077	0.263	6.06	11.7
40418004		100.5	<0.0004	0.02	0.03	2.43	0.009	1.46	273	0.23	<0.005	17.10	0.055	0.460	19.20	6.8
40418005		122.0	0.0004	0.02	0.02	3.08	0.026	1.73	244	0.23	<0.005	38.2	0.074	0.567	6.76	8.9
40418006		106.0	0.0010	0.24	0.03	15.00	0.199	1.39	451	0.46	0.035	7.21	0.365	0.592	2.39	121.0
40418007		76.9	0.0011	0.25	0.03	14.65	0.161	1.33	463	0.50	0.031	6.98	0.353	0.393	2.21	117.0
40418008		45.2	<0.0004	0.08	0.04	5.13	0.040	2.39	381	0.82	0.007	2.46	0.135	0.269	4.64	27.7

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 4 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	Zr-ICPDII
	Analyte	W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd	Zr
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	%
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2	0.003
40417931		0.525	13.60	88.8	119.5	0.0037	0.006	<0.002	1	1.5	1.6	
40417932		0.966	12.05	82.0	129.0	0.0035	0.006	<0.002	<1	0.8	1.0	
40417933		0.541	12.30	85.5	100.5	0.0024	0.004	0.003	2	1.4	1.5	
40417934		0.882	11.20	76.1	120.0	0.0033	0.006	<0.002	1	1.3	1.3	
40417935		0.492	11.90	81.4	118.0	0.0039	0.004	0.003	1	1.5	1.4	
40417936		0.428	9.84	76.9	93.3	0.0032	0.009	<0.002	2	3.7	3.6	
40417937		0.132	4.72	22.1	82.7	0.0020	0.004	<0.002	2	<0.1	<0.2	
40417938		0.525	11.30	89.3	147.0	0.0077	0.007	<0.002	<1	0.9	0.7	
40417939		0.159	13.25	21.6	23.2	0.0015	0.004	<0.002	<1	<0.1	<0.2	
40417940		0.507	12.00	83.7	111.0	0.0053	0.008	<0.002	1	1.5	1.5	
40417941		0.486	11.95	83.5	113.5	0.0037	0.007	<0.002	3	2.0	1.8	
40417942		0.522	10.90	75.0	113.5	0.0031	0.007	<0.002	<1	0.7	0.7	
40417943		0.588	14.40	91.7	119.5	0.0029	0.007	<0.002	<1	1.0	0.9	
40417944		0.577	9.92	76.1	105.5	0.0024	0.006	<0.002	<1	0.8	0.8	
40417945		1.130	11.70	92.7	117.0	0.0032	0.007	<0.002	<1	1.2	1.2	
40417946		0.873	11.25	83.3	110.5	0.0022	0.005	<0.002	<1	1.0	0.9	
40417947		0.806	11.35	87.2	116.5	0.0023	0.008	<0.002	1	1.5	1.6	
40417948		0.513	12.90	88.0	126.5	0.0023	0.008	<0.002	<1	1.0	1.0	
40417949		0.791	12.50	81.7	119.0	0.0024	0.008	<0.002	6	1.1	0.7	
40417950		0.286	18.05	109.5	98.6	0.0113	0.022	0.142	20	58.0	219	
40417951		1.075	7.09	16.2	225	0.0048	0.008	<0.002	1	3.2	3.2	
40417952		0.301	6.73	12.9	113.5	0.0030	0.004	0.003	<1	<0.1	<0.2	
40417953		0.243	6.04	16.2	134.0	0.0031	0.004	<0.002	<1	<0.1	<0.2	
40417954		0.246	4.50	13.0	129.5	0.0028	0.005	<0.002	<1	<0.1	<0.2	
40417955		0.165	5.57	14.5	189.5	0.0048	0.005	<0.002	<1	<0.1	<0.2	
40417956		0.254	7.15	22.7	179.5	0.0040	0.004	<0.002	<1	<0.1	<0.2	
40417995		0.540	12.45	90.9	110.5	0.0027	0.008	<0.002	1	0.8	0.5	
40417996		0.572	12.05	84.8	119.5	0.0023	0.008	<0.002	<1	1.2	1.2	
40417997		0.579	12.85	88.7	118.5	0.0025	0.008	<0.002	<1	1.0	1.1	
40417998		0.573	12.65	62.0	116.5	0.0030	0.008	<0.002	<1	1.1	1.1	
40417999		0.901	12.70	103.0	130.0	0.0025	0.008	<0.002	<1	1.1	1.1	
40418000		0.592	12.45	139.5	120.0	0.0033	0.007	0.002	1	1.7	3.3	
40418001		0.813	12.25	98.2	116.5	0.0025	0.007	<0.002	<1	1.1	1.1	
40418002		0.166	2.98	20.3	88.4	0.0020	0.005	<0.002	<1	<0.1	<0.2	
40418003		0.667	2.51	32.3	41.2	0.0009	0.004	<0.002	<1	<0.1	<0.2	
40418004		0.228	4.36	20.1	95.8	0.0036	0.005	<0.002	<1	<0.1	<0.2	
40418005		1.500	8.72	29.1	203	0.0043	0.008	<0.002	<1	<0.1	<0.2	
40418006		0.774	12.40	104.5	124.5	0.0034	0.008	<0.002	<1	1.0	1.1	
40418007		0.522	13.05	108.0	118.5	0.0033	0.008	0.002	<1	0.9	0.7	
40418008		0.387	4.79	47.9	109.0	0.0026	0.004	<0.002	<1	<0.1	<0.2	



ALS Canada Ltd.

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 604 984 0221 Fax: +1 604 984 0218  
www.alsglobal.com/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 5 - A  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 28-OCT-2022  
Account: RTECILHR

Project: EB80003513

CERTIFICATE OF ANALYSIS TB22266319

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40418009		2.89	0.108	7.73	0.37	590	1.47	0.211	2.27	0.091	50.0	21.7	160.5	3.72	63.6	4.11
40418010		0.17	0.465	8.82	4.76	346	0.61	0.156	6.56	0.268	29.6	66.2	1730	2.47	1135	8.29
40418011		5.53	0.104	8.03	0.18	650	1.36	0.127	1.93	0.098	56.1	22.8	135.0	2.98	59.7	4.89
40418012		5.70	0.094	8.09	0.32	680	1.41	0.177	2.40	0.094	51.7	24.2	164.5	3.62	53.9	4.69
40418013		3.21	0.092	7.95	0.24	700	1.50	0.173	2.58	0.105	47.0	24.4	173.0	3.33	48.6	4.62
40418014		3.34	0.083	7.27	0.22	421	1.82	0.140	1.01	0.080	14.95	2.25	12.3	1.61	17.15	0.720
40418015		4.56	0.096	8.27	0.40	680	1.43	0.164	2.56	0.084	60.6	21.4	138.0	4.05	49.7	4.27
40418016		2.92	0.094	8.34	0.23	610	1.34	0.175	2.43	0.093	55.0	21.9	133.0	5.07	48.3	4.22
40418017		5.20	0.042	6.75	0.16	449	1.36	0.084	0.86	0.021	25.4	1.440	13.2	2.07	2.27	0.830
40418018		2.78	0.081	8.38	0.08	670	1.51	0.110	2.21	0.066	56.4	20.3	139.5	5.31	45.0	4.54
40418019		5.56	0.079	8.22	0.06	580	1.44	0.132	2.13	0.062	51.4	18.25	118.0	3.70	44.0	3.96
40418020		0.52	0.035	8.67	1.98	620	2.17	0.038	4.90	0.104	61.6	26.8	39.0	1.72	32.8	7.09
40418021		5.26	0.063	8.29	0.16	560	1.18	0.115	2.38	0.055	35.0	14.15	85.1	3.11	29.9	3.28
40418022		2.88	0.083	8.19	0.31	560	1.25	0.180	2.62	0.095	49.0	18.30	150.5	2.76	39.3	3.89
40418023		2.09	0.079	7.70	0.36	630	1.38	0.149	1.53	0.035	48.9	19.70	137.5	1.79	44.7	4.33
40418024		4.36	0.087	8.24	0.37	620	1.29	0.152	1.98	0.049	46.1	19.60	119.0	3.51	47.0	4.07
40418025		5.60	0.090	7.95	0.20	680	1.31	0.185	2.44	0.086	58.0	22.7	138.5	4.56	57.9	4.80
40418026		5.47	0.083	8.15	0.16	680	1.26	0.170	2.51	0.084	54.8	23.3	151.5	5.60	53.5	4.89
40418027		5.60	0.084	8.16	0.23	690	1.22	0.165	2.53	0.096	55.5	23.5	159.0	4.96	55.0	5.06
40418028		5.68	0.081	8.57	0.20	660	1.26	0.187	2.24	0.091	52.1	24.2	144.5	5.81	55.1	4.92
40418029		2.36	0.086	7.99	0.19	650	1.26	0.130	2.30	0.069	43.0	16.75	109.5	3.48	39.7	3.63
40418030		2.48	0.075	8.36	0.15	640	1.27	0.120	2.39	0.071	45.7	16.90	115.0	3.63	39.4	3.64
40418031		2.07	0.138	8.10	0.18	790	1.53	0.251	2.31	0.127	87.0	20.5	124.0	4.88	45.2	4.33
40418032		5.06	0.049	7.00	0.20	880	0.69	0.124	0.51	0.019	27.2	1.735	10.7	2.07	4.11	1.170
40418033		3.10	0.048	7.14	0.26	780	1.00	0.300	0.62	0.021	50.2	0.856	10.1	2.09	1.08	0.760
40418034		3.64	0.110	8.03	0.28	710	1.70	0.175	2.53	0.144	67.6	22.2	151.0	6.52	48.0	4.39
40418035		2.37	0.068	7.42	0.22	850	1.02	0.149	1.37	0.041	58.9	9.72	67.2	3.73	23.3	2.57
40418036		4.85	0.071	7.95	0.35	1450	0.95	0.080	1.71	0.029	158.0	9.27	68.4	3.49	23.1	2.87
40418037		2.53	0.102	7.83	0.35	750	1.49	0.232	3.35	0.115	73.4	28.4	275	7.13	53.0	5.36
40418038		5.10	0.134	8.19	0.72	690	1.59	0.165	2.55	0.081	61.3	24.4	174.0	5.63	60.1	5.12
40418039		1.49	0.097	7.76	0.31	328	2.51	0.193	1.71	0.073	36.9	11.50	88.0	2.15	22.0	3.19
40418040		0.17	0.497	9.23	4.33	345	0.61	0.142	6.66	0.262	25.5	63.5	1720	2.30	1155	8.51
40418041		4.62	0.097	8.44	0.22	620	1.68	0.208	2.58	0.097	59.3	25.0	152.0	8.17	52.9	5.97



ALS Canada Ltd.

2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 5 – B  
 Total # Pages: 5 (A – D)  
 Plus Appendix Pages  
 Finalized Date: 28–OCT–2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.004	In ppm 0.005	K % 0.01	La ppm 0.005	Li ppm 0.2	Mg % 0.01	Mn ppm 0.2	Mo ppm 0.02	Na % 0.001	Nb ppm 0.005	Ni ppm 0.08	P % 0.001	Pb ppm 0.01
40418009		19.80	0.11	2.85	0.036	1.78	25.0	50.2	1.93	689	1.40	2.57	7.10	73.5	0.068	16.65
40418010		21.8	0.13	2.43	0.065	0.81	13.20	39.9	4.27	1075	2.73	1.545	7.68	696	0.069	6.55
40418011		21.8	0.11	2.73	0.042	1.90	27.8	53.2	1.85	732	1.96	2.90	5.77	80.9	0.075	17.10
40418012		21.6	0.12	2.85	0.043	2.02	25.3	48.5	2.08	713	1.40	2.95	5.66	98.3	0.076	14.35
40418013		20.5	0.12	2.70	0.044	1.96	22.6	56.3	2.42	802	1.50	2.62	5.71	79.8	0.085	17.10
40418014		17.95	0.06	2.22	0.009	3.32	7.12	9.2	0.16	107.5	0.79	3.28	2.11	8.38	0.011	65.6
40418015		21.1	0.13	2.76	0.046	2.08	29.6	47.3	1.78	670	1.80	2.81	6.69	67.6	0.081	13.10
40418016		20.5	0.12	2.84	0.042	1.99	27.2	48.3	1.82	627	1.46	3.00	5.87	69.0	0.069	13.80
40418017		15.95	0.07	3.78	0.011	3.53	12.30	8.4	0.17	123.5	1.30	2.70	2.91	4.60	0.011	46.7
40418018		18.90	0.15	2.84	0.045	2.25	27.5	49.4	1.86	673	1.95	2.90	6.85	67.6	0.080	13.90
40418019		18.60	0.14	2.81	0.035	1.93	24.0	43.5	1.74	585	1.32	3.09	6.09	60.5	0.065	14.70
40418020		23.3	0.21	2.36	0.092	1.92	25.0	20.7	2.12	1050	1.23	2.68	10.50	32.2	0.174	10.90
40418021		17.70	0.12	2.33	0.026	1.69	15.35	38.8	1.33	499	1.14	3.34	4.05	44.5	0.064	9.23
40418022		18.35	0.15	2.64	0.028	1.61	22.9	45.3	1.83	606	1.32	2.90	4.83	63.6	0.071	12.35
40418023		19.60	0.14	3.06	0.035	2.14	21.9	49.8	1.94	540	1.17	2.86	5.09	66.1	0.081	11.00
40418024		18.65	0.13	2.75	0.033	2.01	20.5	55.6	1.69	561	1.97	3.20	5.50	64.5	0.070	14.15
40418025		19.50	0.16	3.23	0.042	2.07	27.7	52.2	2.00	722	1.40	2.64	6.48	72.7	0.079	15.25
40418026		20.2	0.16	3.11	0.046	2.06	26.4	54.6	2.03	713	1.52	2.69	6.20	76.9	0.075	15.10
40418027		19.05	0.16	2.99	0.042	2.06	26.7	54.2	2.01	785	2.13	2.49	5.78	80.7	0.077	14.10
40418028		20.1	0.15	2.93	0.039	2.10	25.7	54.0	1.89	725	1.56	2.95	5.99	79.8	0.071	14.70
40418029		19.15	0.13	2.89	0.027	1.59	19.80	41.4	1.36	577	1.37	3.05	4.94	49.9	0.057	17.05
40418030		19.15	0.13	3.13	0.039	1.64	21.8	42.9	1.45	580	1.26	3.07	4.84	53.1	0.058	16.00
40418031		20.5	0.19	3.00	0.039	2.23	42.0	57.0	1.99	722	1.52	2.81	6.78	81.0	0.105	33.4
40418032		11.25	0.09	1.290	0.011	4.28	12.35	8.3	0.20	134.5	0.91	2.22	2.59	2.63	0.025	77.3
40418033		11.85	0.12	5.81	0.008	4.53	22.3	7.7	0.13	98.1	0.96	2.62	2.37	1.02	0.024	135.0
40418034		17.10	0.15	3.08	0.036	2.20	33.6	53.5	2.10	660	1.28	2.53	7.36	84.5	0.090	20.9
40418035		14.70	0.14	1.675	0.026	3.94	28.4	25.2	0.99	376	1.02	2.25	5.19	36.5	0.067	48.9
40418036		17.55	0.21	6.80	0.018	3.56	89.7	32.8	0.90	361	4.23	2.38	7.04	30.9	0.060	23.7
40418037		18.80	0.19	2.97	0.041	2.28	35.3	62.1	3.10	845	1.62	1.995	6.45	118.0	0.096	14.40
40418038		19.35	0.16	3.43	0.043	2.39	29.5	58.1	2.02	792	1.90	2.25	7.92	87.4	0.077	14.95
40418039		20.5	0.12	3.00	0.035	1.83	16.80	29.6	1.02	488	7.51	3.07	7.03	48.1	0.053	30.6
40418040		20.6	0.16	2.50	0.067	0.85	10.55	40.8	4.41	1095	2.81	1.580	7.35	703	0.071	6.34
40418041		20.8	0.14	3.12	0.050	2.43	27.8	60.2	1.83	849	1.80	2.38	7.33	89.2	0.081	14.95

\*\*\*\*\* 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/geochemistry

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Page: 5 - C  
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**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40418009		73.9	0.0008	0.28	0.03	12.20	0.160	1.82	483	0.99	0.030	6.18	0.324	0.464	3.65	103.5
40418010		18.40	0.0032	0.34	0.48	19.35	0.999	1.70	428	0.47	0.069	1.330	0.768	0.502	0.34	177.0
40418011		71.9	0.0013	0.27	0.05	14.40	0.194	1.20	374	0.40	0.041	6.74	0.339	0.425	1.69	112.5
40418012		73.3	0.0010	0.22	0.06	13.75	0.157	1.00	442	0.41	0.039	6.04	0.339	0.488	1.76	111.0
40418013		64.6	0.0009	0.19	0.04	14.70	0.168	1.16	476	0.43	0.030	5.81	0.350	0.457	1.80	123.5
40418014		86.4	<0.0004	0.07	0.03	1.34	0.042	1.08	249	0.20	0.005	6.52	0.030	0.434	46.1	5.0
40418015		79.8	0.0009	0.23	0.04	13.25	0.136	1.27	532	0.41	0.032	5.86	0.342	0.498	1.49	108.5
40418016		87.0	0.0008	0.23	0.04	12.85	0.164	1.21	461	0.41	0.034	6.07	0.327	0.527	1.88	106.0
40418017		96.9	<0.0004	0.01	0.03	1.94	0.012	1.47	220	0.27	<0.005	9.32	0.041	0.465	21.4	5.8
40418018		94.9	0.0009	0.23	0.03	14.00	0.147	1.38	463	0.46	0.034	6.27	0.335	0.581	2.05	107.0
40418019		77.2	0.0005	0.20	0.03	12.45	0.115	1.21	446	0.41	0.026	6.58	0.309	0.463	3.23	94.3
40418020		74.7	0.0007	0.14	0.11	22.4	0.105	1.50	501	0.61	0.020	2.80	0.815	0.391	1.31	180.5
40418021		54.8	0.0004	0.16	0.04	9.91	0.107	0.84	467	0.29	0.025	3.49	0.255	0.350	1.44	72.4
40418022		53.4	0.0006	0.23	0.05	12.45	0.142	1.05	532	0.34	0.030	4.79	0.304	0.329	1.39	92.0
40418023		63.0	0.0006	0.13	0.07	13.15	0.088	1.13	401	0.33	0.019	4.56	0.306	0.449	1.68	101.5
40418024		72.3	0.0009	0.21	0.04	13.30	0.148	1.10	406	0.42	0.035	5.43	0.305	0.441	1.77	98.2
40418025		62.9	0.0006	0.27	0.05	16.15	0.171	1.05	499	0.45	0.034	6.48	0.368	0.436	1.90	120.0
40418026		66.3	0.0008	0.26	0.05	16.20	0.168	1.05	521	0.45	0.040	6.14	0.365	0.451	1.70	119.0
40418027		73.5	0.0011	0.27	0.07	16.90	0.182	0.95	510	0.40	0.039	5.99	0.365	0.451	1.73	121.5
40418028		76.3	0.0008	0.21	0.06	17.35	0.184	0.91	507	0.41	0.032	6.18	0.364	0.437	1.73	124.0
40418029		51.6	0.0007	0.22	0.04	10.75	0.117	0.75	499	0.33	0.022	5.05	0.273	0.343	1.28	79.4
40418030		58.1	0.0004	0.21	0.04	11.25	0.130	0.80	506	0.34	0.019	5.18	0.282	0.356	1.43	83.8
40418031		85.3	0.0005	0.26	0.05	14.35	0.124	1.65	644	0.50	0.025	9.10	0.329	0.530	10.05	102.0
40418032		95.3	<0.0004	0.02	0.04	2.42	0.011	1.08	219	0.24	<0.005	9.23	0.047	0.542	43.4	4.6
40418033		98.4	<0.0004	0.01	0.04	1.95	0.013	0.77	214	0.25	0.006	22.4	0.027	0.471	135.0	1.4
40418034		102.0	0.0005	0.20	0.04	13.05	0.131	1.49	616	0.53	0.021	8.52	0.337	0.633	4.83	104.5
40418035		114.0	0.0004	0.12	0.04	7.65	0.068	1.25	449	0.36	0.013	10.65	0.174	0.609	25.9	44.8
40418036		108.5	<0.0004	0.10	0.04	6.60	0.068	0.84	504	0.29	0.014	23.9	0.244	0.583	1.93	50.0
40418037		97.9	0.0006	0.22	0.06	17.95	0.160	1.37	553	0.41	0.029	9.28	0.370	0.717	2.29	137.0
40418038		101.5	0.0008	0.24	0.07	15.60	0.161	1.11	475	0.47	0.038	8.01	0.345	0.694	2.40	123.0
40418039		57.2	0.0006	0.09	0.04	10.10	0.062	1.26	313	0.74	0.018	6.20	0.161	0.327	22.7	58.9
40418040		16.75	0.0025	0.35	0.51	18.80	0.978	1.65	434	0.45	0.065	1.045	0.787	0.480	0.31	177.5
40418041		103.5	0.0009	0.24	0.04	17.10	0.170	1.37	566	0.54	0.037	6.70	0.390	0.725	2.49	133.0



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	Zr-ICPDII
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	%
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2	0.003
40418009		0.463	10.90	87.9	114.0	0.0030	0.006	<0.002	<1	0.8	0.3	
40418010		0.276	19.85	112.0	102.5	0.0129	0.028	0.221	15	41.3	186.0	
40418011		0.594	12.55	86.6	111.5	0.0032	0.006	0.005	<1	1.0	1.0	
40418012		0.603	11.90	85.7	117.0	0.0026	0.007	<0.002	<1	0.7	0.7	
40418013		0.524	12.75	91.5	110.0	0.0027	0.006	0.008	<1	1.1	0.4	
40418014		0.194	2.91	27.7	71.6	0.0019	0.004	<0.002	<1	<0.1	<0.2	
40418015		0.607	12.15	86.5	114.5	0.0028	0.005	0.002	<1	0.7	0.3	
40418016		0.692	11.70	84.8	113.0	0.0033	0.007	0.003	<1	0.8	0.5	
40418017		0.196	3.14	18.5	118.5	0.0025	0.006	<0.002	<1	<0.1	<0.2	
40418018		0.514	11.70	82.9	105.0	0.0013	0.004	<0.002	<1	0.8	0.3	
40418019		0.504	10.70	73.0	101.0	0.0010	<0.004	<0.002	<1	0.6	0.3	
40418020		0.706	38.5	115.5	81.2	0.0021	0.004	<0.002	8	<0.1	<0.2	
40418021		0.397	7.77	65.3	84.1	0.0009	0.004	<0.002	<1	0.4	<0.2	
40418022		0.635	9.49	73.6	94.8	0.0006	0.004	<0.002	<1	0.6	0.3	
40418023		0.668	10.15	78.8	115.5	0.0017	0.005	<0.002	<1	0.7	0.2	
40418024		0.707	11.25	70.2	98.8	0.0013	0.004	0.003	<1	0.8	0.4	
40418025		0.461	12.55	83.0	119.5	0.0023	0.005	<0.002	<1	1.3	1.5	
40418026		0.654	11.85	84.8	116.5	0.0016	0.006	<0.002	<1	1.3	1.5	
40418027		0.455	12.75	87.9	114.0	0.0014	0.006	<0.002	<1	1.4	1.7	
40418028		0.531	12.65	85.0	113.0	0.0016	0.006	0.002	<1	1.0	1.0	
40418029		0.314	8.26	72.3	103.5	0.0018	<0.004	<0.002	<1	0.6	0.2	
40418030		0.360	9.17	70.1	115.5	0.0010	<0.004	<0.002	<1	0.6	0.8	
40418031		0.445	14.70	95.4	115.5	0.0015	<0.004	<0.002	<1	0.9	0.5	
40418032		0.212	15.25	21.1	38.9	<0.0004	<0.004	<0.002	<1	<0.1	<0.2	
40418033		0.246	47.9	11.9	172.0	0.0021	<0.004	<0.002	<1	<0.1	<0.2	
40418034		0.369	13.25	105.0	115.0	0.0017	0.006	<0.002	<1	0.8	0.4	
40418035		0.319	13.30	45.7	61.3	0.0007	0.006	<0.002	<1	0.1	<0.2	
40418036		0.274	10.20	56.8	259	0.0037	0.008	<0.002	<1	0.1	<0.2	
40418037		0.519	14.35	94.7	112.5	0.0019	0.005	<0.002	<1	1.2	1.4	
40418038		0.705	11.90	90.8	125.0	0.0019	0.007	<0.002	<1	1.3	1.3	
40418039		0.624	9.07	62.4	91.5	0.0010	0.004	0.002	<1	0.5	0.2	
40418040		0.258	17.50	106.5	93.5	0.0192	0.018	0.229	19	29.3	201	
40418041		0.739	13.55	89.8	118.5	0.0020	0.007	<0.002	<1	1.4	1.5	



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003513

**CERTIFICATE OF ANALYSIS TB22266319**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Au, Pt &amp; Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g)            ME-MS61L</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ME-MS61L</td> <td style="width: 33%;">PGM-MS23L</td> <td style="width: 33%;">Zr-ICPDil</td> <td></td> </tr> </table>	ME-MS61L	PGM-MS23L	Zr-ICPDil									
ME-MS61L	PGM-MS23L	Zr-ICPDil											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 1  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
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**CERTIFICATE TB22269675**

Project: EB80003527  
 P.O. No.: 3105220123  
 This report is for 58 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 21-SEP-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
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**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
SPL-21X	Addnl Crush Split w No Analysis
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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:**   
 Saa Traxler, Director, North Vancouver Operations



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

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Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
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Project: EB80003527

<b>CERTIFICATE OF ANALYSIS TB22269675</b>
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Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40417957		0.60	0.026	8.98	1.08	620	1.80	0.022	5.30	0.119	55.8	35.3	58.1	1.06	39.8	7.98
40417958		5.75	0.080	8.15	0.10	600	1.20	0.168	2.08	0.099	50.1	24.7	140.5	4.17	53.3	4.99
40417959		5.49	0.083	8.34	0.06	530	1.88	0.299	2.23	0.067	39.2	20.6	108.0	6.82	46.4	4.17
40417960		2.94	0.100	8.63	0.20	520	1.70	0.302	1.59	0.091	46.4	28.1	157.0	6.44	54.6	5.24
40417961		4.10	0.087	7.60	0.74	560	1.19	0.209	2.87	0.074	60.1	30.2	173.5	3.31	64.6	5.67
40417962		2.45	0.149	7.82	0.36	570	1.26	0.196	2.36	0.127	43.9	24.1	127.0	4.13	58.7	4.78
40417963		0.54	0.035	9.23	1.01	510	2.17	0.036	5.46	0.115	57.5	35.2	53.7	1.31	46.6	8.07
40417964		6.67	0.171	8.04	0.42	610	1.29	0.181	2.73	0.082	54.7	21.9	113.5	3.53	48.1	4.84
40417965		4.00	0.062	7.67	0.31	379	1.60	0.107	0.95	0.029	50.8	2.33	17.1	3.19	10.45	1.330
40417966		6.10	0.058	8.15	0.27	760	2.33	0.078	1.55	0.029	35.9	6.53	32.8	2.49	8.80	1.920
40417967		4.75	0.061	8.04	0.31	830	2.27	0.128	1.67	0.037	42.6	6.30	32.7	3.68	7.13	2.13
40417968		2.31	0.123	7.45	0.42	570	1.01	0.284	0.58	0.148	23.3	2.40	12.4	2.51	23.2	0.920
40417969		0.57	0.073	7.83	0.18	660	1.81	0.085	1.58	0.033	45.5	5.86	29.7	3.45	13.10	1.940
40417970		0.52	0.071	7.65	0.16	650	1.84	0.088	1.56	0.038	45.7	5.30	27.9	3.22	14.35	1.780
40417971		3.71	0.073	7.11	0.19	282	1.75	0.167	1.05	0.035	50.0	1.275	14.2	1.60	4.39	0.940
40417972		5.71	0.120	7.86	0.45	630	1.45	0.149	2.19	0.078	54.1	18.85	104.5	5.33	41.6	4.28
40417973		5.78	0.094	7.75	0.25	630	1.47	0.182	2.14	0.078	52.2	18.95	114.0	5.06	47.0	4.06
40417974		5.54	0.096	7.46	0.88	580	1.30	0.170	2.14	0.070	56.4	20.1	130.0	4.19	42.3	4.23
40417975		5.08	0.114	7.73	1.10	580	1.17	0.177	2.29	0.104	54.3	25.2	148.5	4.27	59.1	5.01
40417976		0.57	0.196	7.45	0.40	460	1.07	0.141	1.81	0.294	44.0	20.7	125.5	2.75	47.7	4.54
40417977		5.79	0.085	7.75	0.26	540	1.30	0.122	1.85	0.081	51.2	18.55	108.5	4.73	39.7	4.01
40417978		3.77	0.091	8.16	0.31	720	1.29	0.195	2.75	0.101	48.1	23.9	116.5	3.99	47.1	5.33
40417979		3.71	0.084	7.47	0.31	640	1.26	0.153	2.08	0.062	48.7	19.45	130.0	3.30	41.5	4.17
40417980		5.29	0.075	6.98	0.11	470	1.65	0.263	0.43	0.011	63.5	0.886	11.0	4.31	1.88	0.860
40417981		0.17	0.478	8.90	4.86	336	0.62	0.131	6.46	0.255	23.0	64.6	1670	2.10	1100	8.19
40417982		5.17	0.061	6.93	0.17	409	2.04	0.147	0.66	0.032	52.0	1.140	10.9	5.64	0.84	0.830
40417983		5.38	0.060	6.87	0.46	500	1.20	0.167	0.54	0.012	95.6	0.892	9.9	2.92	0.87	0.800
40417984		5.19	0.040	7.06	0.34	540	0.93	0.115	0.53	0.011	89.5	1.090	12.6	2.15	0.91	0.780
40417985		5.24	0.033	7.45	0.27	580	0.94	0.110	0.53	0.009	41.8	0.913	9.9	2.65	1.06	0.820
40417986		2.64	0.036	6.78	0.28	490	1.13	0.123	0.63	0.019	56.8	1.435	12.3	2.89	1.02	0.900
40417987		3.42	0.107	7.79	0.40	630	1.46	0.107	1.78	0.057	106.5	16.15	82.7	4.34	41.4	3.86
40417988		2.65	0.090	7.17	0.27	990	1.71	0.166	2.05	0.079	116.0	15.70	67.9	4.47	24.6	3.16
40417989		4.14	0.045	6.91	0.20	500	1.35	0.129	0.62	0.025	47.3	2.01	16.7	2.66	3.09	1.130
40417990		0.50	0.030	8.68	2.43	560	1.71	0.116	5.36	0.135	70.7	35.3	54.9	2.04	32.3	7.69
40417991		4.95	0.095	8.01	0.47	610	1.42	0.159	2.05	0.068	65.3	22.7	151.0	6.30	49.8	4.70
40417992		3.75	0.093	7.58	0.08	630	1.16	0.118	1.83	0.073	59.9	21.5	141.0	5.39	45.2	4.41
40417993		3.96	0.089	7.53	0.06	550	1.29	0.186	3.07	0.073	50.7	26.4	298	5.33	43.2	4.14
40417994		2.57	0.060	7.37	0.17	1560	1.29	0.074	1.10	0.020	144.5	5.20	22.5	3.02	15.15	2.09
40418042		4.81	0.048	7.03	0.34	640	1.26	0.122	0.64	0.019	60.8	1.895	14.8	2.42	8.69	1.150
40418043		5.31	0.023	6.99	0.18	690	0.97	0.079	0.63	0.016	78.4	1.600	12.2	1.94	10.65	1.150





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005	% 0.01	ppm 0.005	ppm 0.2	% 0.01	ppm 0.2	ppm 0.02	% 0.001	ppm 0.005	ppm 0.08	% 0.001	ppm 0.01
40417957		23.3	0.28	1.735	0.082	1.46	22.6	15.4	2.61	1140	1.20	2.56	8.04	52.9	0.217	7.68
40417958		19.55	0.20	2.75	0.030	2.00	23.5	54.9	1.81	777	1.67	2.51	5.55	77.2	0.063	13.85
40417959		21.0	0.20	2.46	0.034	1.93	17.40	45.5	1.55	688	2.01	3.14	6.46	64.8	0.066	16.30
40417960		21.5	0.22	2.89	0.028	2.47	21.2	71.3	2.00	847	1.88	2.69	7.05	95.4	0.063	15.80
40417961		18.95	0.25	3.03	0.047	1.86	27.4	52.3	2.50	940	1.54	2.28	5.97	99.1	0.086	11.75
40417962		18.65	0.21	2.78	0.037	1.83	20.0	43.6	1.88	861	1.19	2.56	5.33	63.9	0.069	11.90
40417963		23.9	0.30	1.730	0.097	1.34	23.1	14.5	2.65	1180	1.33	2.71	8.57	52.0	0.204	7.93
40417964		19.25	0.21	2.98	0.039	1.91	25.4	52.7	1.84	760	1.30	2.80	5.52	56.0	0.077	14.25
40417965		18.45	0.11	3.23	0.011	4.28	21.9	13.2	0.20	171.0	0.97	2.99	4.73	4.88	0.013	48.8
40417966		21.8	0.10	2.60	0.019	2.42	17.10	34.6	0.69	328	1.19	3.66	5.02	12.95	0.047	26.2
40417967		22.1	0.12	2.52	0.016	2.36	19.85	39.9	0.70	356	1.13	3.56	5.27	12.65	0.051	24.8
40417968		16.15	0.10	1.225	0.005	5.22	10.60	7.9	0.11	105.0	1.11	2.60	2.31	2.06	0.022	72.0
40417969		20.8	0.13	2.51	0.013	2.32	21.2	35.3	0.60	309	1.14	3.45	5.02	9.88	0.042	25.6
40417970		20.3	0.12	2.44	0.014	2.06	21.2	37.5	0.63	295	0.98	3.51	3.64	10.85	0.043	22.5
40417971		17.55	0.12	4.51	0.008	3.09	21.6	11.4	0.13	139.0	1.16	3.28	3.47	2.76	0.023	42.5
40417972		19.30	0.16	3.08	0.045	2.01	25.1	47.5	1.45	655	1.73	2.72	6.80	51.8	0.067	16.95
40417973		19.75	0.21	2.88	0.034	2.25	23.6	46.2	1.57	665	1.48	2.82	6.70	60.5	0.065	17.40
40417974		18.10	0.22	2.70	0.040	2.02	26.5	45.0	1.72	657	1.98	2.44	5.79	66.4	0.061	16.55
40417975		18.30	0.24	2.81	0.048	2.00	25.9	52.2	1.91	850	2.94	2.36	5.65	75.2	0.068	13.15
40417976		17.60	0.24	3.30	0.034	2.39	19.50	45.0	1.42	880	1.73	2.29	6.14	60.5	0.040	26.1
40417977		19.80	0.22	3.14	0.043	2.44	24.1	51.1	1.46	598	1.92	2.74	6.69	53.3	0.056	20.7
40417978		19.95	0.25	2.66	0.050	2.11	22.0	53.2	2.08	845	1.21	2.57	5.71	53.6	0.079	14.15
40417979		19.30	0.23	2.77	0.029	1.95	21.8	52.0	1.64	632	1.82	2.70	6.08	57.0	0.068	19.60
40417980		15.30	0.13	1.985	0.009	4.91	27.9	8.6	0.14	140.5	1.25	2.43	4.42	1.41	0.015	57.0
40417981		20.3	0.22	2.45	0.062	0.83	9.84	40.0	4.28	1065	2.85	1.540	7.29	699	0.068	6.21
40417982		16.30	0.15	1.990	0.009	4.23	22.7	14.2	0.16	149.0	0.90	2.64	5.04	1.22	0.012	52.4
40417983		14.90	0.16	5.01	0.008	4.81	42.2	10.1	0.12	116.0	0.91	2.43	3.32	1.17	0.014	52.8
40417984		14.50	0.16	2.62	<0.005	5.08	39.9	9.9	0.16	104.5	1.13	2.32	3.52	1.37	0.014	50.0
40417985		15.10	0.15	2.81	0.010	5.48	18.20	8.6	0.12	107.5	0.89	2.34	3.10	1.38	0.014	58.1
40417986		15.10	0.12	3.63	0.009	4.54	25.1	13.2	0.19	136.5	1.12	2.41	4.03	1.70	0.014	49.4
40417987		20.1	0.22	4.51	0.035	2.58	49.6	55.3	1.35	532	1.53	2.71	7.47	50.9	0.074	26.1
40417988		20.9	0.13	4.17	0.030	1.88	56.9	58.9	1.46	538	1.34	2.58	7.98	46.4	0.118	22.2
40417989		15.80	0.08	1.395	0.011	4.41	21.1	12.0	0.24	156.5	3.56	2.48	4.47	3.98	0.013	59.3
40417990		24.6	0.16	1.585	0.091	1.78	29.4	18.8	2.53	1125	1.28	2.37	9.29	48.6	0.226	9.15
40417991		20.9	0.09	3.29	0.038	2.32	33.5	67.9	2.03	662	1.99	2.64	6.82	76.0	0.069	17.00
40417992		19.65	0.09	3.17	0.040	2.35	30.0	57.5	1.86	605	2.14	2.62	6.33	75.6	0.059	15.00
40417993		19.15	0.09	2.84	0.034	2.16	24.1	59.6	3.69	670	1.11	2.41	5.54	170.0	0.099	14.10
40417994		19.20	0.12	6.59	0.022	3.75	87.6	28.9	0.53	243	1.20	2.71	7.09	10.80	0.060	27.6
40418042		15.00	0.09	3.13	0.010	4.55	29.6	9.9	0.21	143.0	1.15	2.54	3.84	3.57	0.030	49.7
40418043		16.45	0.12	4.07	0.008	4.64	37.2	9.1	0.18	192.5	1.10	2.48	5.97	3.44	0.014	49.2

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
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Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
40417957		66.8	0.0012	0.16	0.07	26.7	0.136	1.23	499	0.46	0.018	2.41	1.050	0.311	0.97	197.0
40417958		78.8	0.0011	0.23	0.03	18.35	0.163	0.95	406	0.44	0.036	6.54	0.362	0.502	2.03	125.0
40417959		78.4	0.0010	0.19	0.02	15.50	0.156	1.40	431	0.67	0.029	5.55	0.295	0.551	2.50	103.0
40417960		107.0	0.0016	0.17	0.03	21.3	0.192	1.18	374	0.74	0.041	7.23	0.369	0.657	3.35	139.5
40417961		81.0	0.0010	0.43	0.10	21.3	0.236	1.32	447	0.43	0.037	6.04	0.394	0.469	1.72	143.5
40417962		84.3	0.0024	0.71	0.09	17.50	0.297	1.29	463	0.41	0.050	5.34	0.352	0.518	1.76	123.0
40417963		65.0	0.0012	0.16	0.08	27.1	0.084	1.28	517	0.46	0.018	2.10	1.000	0.293	1.14	193.0
40417964		74.9	0.0024	0.98	0.04	15.50	0.353	1.08	513	0.40	0.072	6.79	0.344	0.483	1.88	115.0
40417965		122.5	<0.0004	0.05	0.03	3.07	0.041	1.46	240	0.39	<0.005	19.00	0.055	0.640	9.10	8.8
40417966		87.7	<0.0004	0.06	0.02	5.04	0.011	1.92	563	0.58	<0.005	4.98	0.143	0.489	5.90	31.9
40417967		88.0	<0.0004	0.07	0.04	5.40	0.017	1.68	615	0.56	<0.005	7.40	0.151	0.517	4.75	32.8
40417968		128.5	<0.0004	0.14	0.04	1.49	0.051	0.91	235	0.19	0.007	9.53	0.027	0.764	7.72	4.6
40417969		87.2	<0.0004	0.08	0.02	5.03	0.032	1.84	534	0.34	<0.005	9.02	0.151	0.497	5.46	27.8
40417970		76.3	<0.0004	0.07	0.02	4.68	0.006	1.66	561	0.26	<0.005	8.49	0.133	0.447	3.13	27.4
40417971		82.5	<0.0004	0.03	0.03	2.11	<0.006	1.18	226	0.32	<0.005	18.50	0.038	0.430	10.40	4.5
40417972		84.8	0.0035	0.37	0.03	13.60	0.139	1.36	429	0.52	0.024	6.79	0.339	0.565	2.48	99.7
40417973		89.6	0.0020	0.29	0.03	14.20	0.215	1.77	459	0.50	0.028	7.05	0.294	0.563	2.24	93.6
40417974		82.5	0.0026	0.26	0.05	14.00	0.145	1.16	392	0.45	0.035	8.68	0.292	0.488	2.97	98.4
40417975		91.9	0.0012	0.36	0.07	17.65	0.225	1.08	395	0.44	0.032	6.59	0.362	0.552	3.11	123.5
40417976		90.7	0.0008	0.27	0.04	16.25	0.170	1.28	352	0.41	0.022	10.55	0.283	0.477	4.67	100.5
40417977		109.0	0.0008	0.18	0.03	13.60	0.117	1.60	334	0.54	0.028	8.43	0.303	0.735	5.06	94.1
40417978		77.2	0.0006	0.20	0.04	19.35	0.159	1.34	408	0.44	0.036	5.97	0.374	0.527	2.18	132.5
40417979		68.1	0.0008	0.18	0.04	13.90	0.142	1.28	400	0.46	0.035	7.20	0.307	0.487	4.07	101.5
40417980		141.5	<0.0004	0.01	0.03	2.32	0.009	1.85	173.5	0.63	<0.005	27.5	0.032	0.710	45.0	3.1
40417981		13.60	0.0032	0.34	0.56	20.3	0.835	1.68	419	0.46	0.061	1.090	0.790	0.470	0.33	172.5
40417982		132.5	<0.0004	<0.01	0.03	2.68	<0.006	2.33	179.5	0.63	<0.005	19.55	0.048	0.668	19.25	4.3
40417983		133.5	<0.0004	<0.01	0.03	2.03	<0.006	1.18	197.0	0.31	<0.005	37.9	0.034	0.655	14.75	3.2
40417984		131.0	<0.0004	0.01	0.02	2.44	0.033	0.98	200	0.25	<0.005	33.9	0.047	0.662	9.87	3.8
40417985		146.0	<0.0004	<0.01	0.03	2.03	0.016	0.99	217	0.26	<0.005	15.00	0.035	0.745	12.45	3.5
40417986		123.5	<0.0004	0.01	0.02	2.94	0.011	1.27	205	0.28	<0.005	21.7	0.060	0.610	10.10	5.5
40417987		112.0	0.0005	0.20	0.05	12.60	0.122	1.71	485	0.55	0.021	24.9	0.289	0.694	5.22	84.7
40417988		98.9	<0.0004	0.22	0.03	9.25	0.061	1.30	754	0.58	0.011	9.54	0.348	0.544	5.14	76.8
40417989		119.5	<0.0004	0.02	0.03	3.03	0.009	1.70	205	0.42	<0.005	20.0	0.062	0.596	33.2	8.0
40417990		97.3	0.0011	0.15	0.28	27.9	0.122	1.57	512	0.52	0.018	2.57	1.055	0.391	1.27	196.0
40417991		119.0	0.0007	0.25	0.05	16.10	0.172	1.49	403	0.52	0.030	8.96	0.337	0.706	3.63	115.0
40417992		106.0	0.0008	0.21	0.02	14.60	0.164	1.19	328	0.49	0.034	8.93	0.327	0.636	2.55	107.0
40417993		110.0	0.0004	0.16	0.04	13.10	0.086	1.32	512	0.45	0.013	6.40	0.279	0.651	2.88	92.7
40417994		121.0	<0.0004	0.06	0.03	3.39	0.027	1.79	418	0.47	0.005	27.9	0.208	0.646	3.09	31.6
40418042		125.5	<0.0004	0.02	0.05	2.61	0.020	1.38	216	0.44	<0.005	19.70	0.057	0.649	15.20	7.8
40418043		135.5	<0.0004	0.01	0.06	3.14	0.007	1.07	205	0.30	<0.005	29.6	0.059	0.709	8.12	6.7



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - D  
 Total # Pages: 3 (A - D)  
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Project: EB80003527

### CERTIFICATE OF ANALYSIS TB22269675

Sample Description	Method Analyte Units LOD		ME-MS61L			ME-MS61L		ME-MS61L		PGM-MS23L		
	W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb		
40417957	0.193	37.1	119.5	60.3	0.0040	<0.004	<0.002	3	<0.1	<0.2		
40417958	0.545	13.10	83.9	107.5	0.0034	0.006	<0.002	6	1.3	1.5		
40417959	0.586	10.80	77.3	90.4	0.0004	<0.004	<0.002	<1	0.8	0.8		
40417960	0.803	13.35	83.2	109.5	0.0017	0.007	<0.002	1	1.8	2.2		
40417961	0.654	14.10	97.6	119.0	0.0024	0.005	<0.002	<1	1.6	1.8		
40417962	0.361	12.55	87.1	108.5	0.0027	0.008	<0.002	1	1.0	1.4		
40417963	0.244	39.5	122.5	57.7	0.0032	<0.004	<0.002	2	<0.1	<0.2		
40417964	0.441	12.10	88.2	114.0	0.0038	0.005	<0.002	1	0.6	0.5		
40417965	0.154	4.27	27.9	87.8	0.0019	<0.004	<0.002	<1	<0.1	<0.2		
40417966	0.260	5.13	51.7	96.8	0.0009	<0.004	<0.002	<1	<0.1	<0.2		
40417967	0.261	5.56	53.6	98.8	0.0020	<0.004	0.004	<1	<0.1	<0.2		
40417968	0.153	3.96	53.6	33.3	0.0014	0.004	<0.002	1	<0.1	<0.2		
40417969	0.227	4.74	48.9	98.6	0.0016	0.004	<0.002	<1	<0.1	<0.2		
40417970	0.215	4.41	47.0	94.7	0.0014	0.004	<0.002	4	<0.1	<0.2		
40417971	0.181	5.55	17.1	118.5	0.0030	<0.004	<0.002	<1	<0.1	<0.2		
40417972	0.362	11.85	83.6	117.5	0.0031	<0.004	<0.002	<1	0.5	0.5		
40417973	0.404	10.75	79.5	106.5	0.0132	<0.004	<0.002	1	0.8	1.0		
40417974	0.437	10.85	78.1	102.0	0.0033	0.004	0.006	<1	0.7	0.7		
40417975	0.473	12.85	91.2	107.0	0.0028	<0.004	<0.002	<1	1.3	1.5		
40417976	0.868	11.30	171.0	113.5	0.0025	0.004	<0.002	1	1.5	2.6		
40417977	0.626	10.30	78.5	113.5	0.0024	0.005	<0.002	<1	0.7	0.6		
40417978	0.602	12.70	90.7	104.0	0.0026	0.004	<0.002	<1	0.8	0.8		
40417979	0.579	10.35	80.1	108.5	0.0021	0.004	0.002	<1	0.9	0.9		
40417980	0.216	6.51	14.7	55.8	<0.0004	<0.004	<0.002	1	<0.1	<0.2		
40417981	0.260	16.65	109.5	96.0	0.0126	0.024	0.150	16	31.5	184.5		
40417982	0.314	4.30	18.3	55.9	0.0009	<0.004	<0.002	<1	<0.1	<0.2		
40417983	0.187	6.16	14.9	149.0	0.0030	0.005	<0.002	<1	<0.1	<0.2		
40417984	0.175	4.73	17.0	78.9	0.0019	<0.004	<0.002	<1	<0.1	<0.2		
40417985	0.169	3.41	16.2	82.8	0.0016	0.004	<0.002	2	<0.1	<0.2		
40417986	0.195	4.02	21.1	108.0	0.0022	<0.004	<0.002	<1	<0.1	<0.2		
40417987	0.393	10.90	79.5	161.0	0.0038	<0.004	<0.002	<1	0.4	0.3		
40417988	0.320	10.40	84.6	176.0	0.0007	0.006	0.004	<1	0.1	<0.2		
40417989	0.246	3.94	23.9	40.3	<0.0004	0.004	<0.002	<1	<0.1	<0.2		
40417990	0.423	49.2	121.0	53.6	0.0011	<0.004	0.003	<1	<0.1	<0.2		
40417991	0.525	12.05	85.5	129.0	0.0010	0.004	0.002	<1	0.8	0.7		
40417992	0.553	11.20	80.5	124.0	0.0016	0.006	0.009	<1	0.9	0.6		
40417993	0.377	10.60	74.6	112.0	0.0006	<0.004	0.005	<1	0.9	1.4		
40417994	0.297	6.99	52.0	274	0.0036	0.006	0.006	<1	<0.1	<0.2		
40418042	0.249	20.2	19.1	104.0	0.0017	<0.004	0.005	<1	<0.1	<0.2		
40418043	0.257	6.58	23.2	124.5	0.0014	<0.004	<0.002	<1	<0.1	<0.2		

\*\*\*\*\* 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/geochemistry

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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
40418044		5.32	0.079	7.45	0.27	620	1.33	0.124	1.54	0.086	57.2	16.80	106.0	5.05	34.5	3.59
40418045		5.65	0.075	7.61	0.41	620	1.13	0.175	1.88	0.096	55.1	23.2	137.0	4.26	49.3	4.55
40418046		2.22	0.219	7.42	0.63	520	1.29	0.191	1.89	0.042	53.7	21.8	117.5	2.20	47.1	4.39
40418047		4.69	0.103	7.76	0.41	650	1.37	0.188	1.93	0.068	65.4	21.6	124.0	4.62	51.8	4.23
40418048		5.52	0.075	7.69	0.50	630	1.16	0.153	1.74	0.059	52.6	18.85	103.0	3.49	45.2	3.80
40418049		2.62	0.089	7.66	0.68	590	1.33	0.181	2.14	0.077	54.7	21.6	118.5	4.49	47.7	4.16
40418050		2.23	0.346	7.56	0.55	580	1.31	0.185	2.16	0.076	50.5	21.5	125.0	4.61	47.1	4.34
40418051		5.61	0.088	7.37	0.31	600	1.39	0.177	2.09	0.067	59.5	19.15	143.0	4.59	36.9	3.67
40418052		5.53	0.098	7.51	0.07	394	1.74	0.162	2.17	0.076	43.2	20.0	114.5	4.71	45.2	3.94
40418053		5.52	0.089	7.65	0.31	610	1.27	0.182	2.38	0.087	60.1	22.7	139.0	4.16	52.4	4.32
40418054		5.46	0.072	7.13	0.12	580	1.39	0.181	2.47	0.069	50.9	20.9	186.0	3.28	35.3	3.60
40418055		5.41	0.092	8.06	0.29	660	1.22	0.167	2.20	0.092	62.5	23.4	135.0	3.77	51.1	4.62
40418056		5.60	0.095	7.41	0.46	660	1.40	0.199	2.46	0.092	65.2	22.0	148.5	3.41	43.5	4.10
40418057		5.80	0.087	7.93	0.15	650	1.29	0.180	2.36	0.090	63.0	20.1	116.5	2.87	45.5	4.21
40418058		3.60	0.088	7.87	0.25	680	1.37	0.229	2.25	0.097	60.7	21.4	134.0	4.74	45.1	4.22
40418059		2.96	0.090	8.10	0.09	690	1.56	0.186	2.07	0.080	60.7	22.2	127.0	5.96	52.8	4.46
40418060		0.53	0.037	8.42	1.48	490	2.56	0.038	4.45	0.085	56.5	27.3	40.9	2.38	29.7	5.92
40418061		4.09	0.069	7.29	0.19	337	2.12	0.148	1.20	0.050	26.8	2.97	14.2	3.20	8.24	1.280

\*\*\*\*\* 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  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
40418044		19.50	0.10	3.06	0.033	2.41	29.9	54.4	1.38	546	2.12	2.61	6.67	53.7	0.048	24.6
40418045		16.65	0.09	3.01	0.037	2.04	26.4	63.6	1.83	734	1.90	2.36	5.91	74.1	0.060	15.15
40418046		19.40	0.10	3.31	0.037	2.14	26.5	53.8	1.75	619	2.14	2.74	6.40	67.0	0.061	10.90
40418047		20.0	0.11	3.24	0.031	2.25	34.3	54.1	1.66	650	2.69	2.55	7.07	66.0	0.064	17.85
40418048		18.75	0.09	2.93	0.036	2.45	26.5	45.3	1.43	612	2.02	2.60	6.06	56.0	0.053	20.2
40418049		20.5	0.10	3.25	0.033	1.98	26.6	49.2	1.68	630	2.09	2.67	6.41	63.8	0.061	15.50
40418050		20.2	0.09	2.84	0.031	1.96	23.9	50.8	1.76	668	2.19	2.60	6.08	66.4	0.062	15.15
40418051		19.25	0.10	2.68	0.032	2.55	28.9	39.4	1.71	553	1.58	2.54	6.74	72.7	0.060	21.5
40418052		20.5	0.08	2.50	0.033	1.82	20.8	36.4	1.64	620	1.29	2.94	7.48	65.2	0.061	15.40
40418053		20.0	0.10	3.09	0.030	2.02	29.8	38.2	1.85	683	3.28	2.64	6.48	78.8	0.066	14.75
40418054		14.70	0.07	2.88	0.029	2.16	23.4	35.4	2.22	566	1.36	2.49	6.21	93.3	0.059	19.40
40418055		20.5	0.10	3.18	0.035	2.11	30.8	59.2	1.94	694	1.73	2.61	6.40	71.1	0.070	15.90
40418056		20.7	0.10	2.97	0.035	2.02	31.7	45.7	1.96	643	1.53	2.44	7.19	72.7	0.073	17.80
40418057		20.0	0.10	3.23	0.033	1.94	32.3	47.7	1.70	621	1.77	2.74	6.02	57.8	0.065	16.80
40418058		20.4	0.10	3.12	0.037	2.44	28.9	53.1	1.89	664	2.25	2.68	6.20	66.7	0.082	18.75
40418059		20.5	0.11	3.34	0.037	2.05	29.7	60.7	1.90	658	1.76	2.91	6.36	64.4	0.072	15.60
40418060		25.4	0.14	1.805	0.084	1.93	22.3	20.3	1.91	865	1.30	2.72	10.80	37.1	0.148	11.40
40418061		20.4	0.06	1.325	0.018	3.10	12.15	20.4	0.35	217	0.98	3.17	6.60	7.69	0.044	37.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
40418044		114.0	0.0007	0.16	0.04	12.45	0.136	1.45	327	0.53	0.028	9.77	0.274	0.666	5.43	85.8
40418045		85.2	0.0009	0.25	0.04	14.05	0.184	1.03	351	0.46	0.034	7.34	0.341	0.508	2.13	115.5
40418046		93.2	0.0010	0.20	0.07	15.70	0.165	1.24	294	0.54	0.032	8.00	0.320	0.530	2.77	108.5
40418047		108.0	0.0010	0.28	0.06	14.70	0.158	1.29	379	0.55	0.036	10.25	0.321	0.629	3.39	105.5
40418048		94.9	0.0007	0.23	0.05	13.00	0.165	1.17	362	0.48	0.034	7.85	0.286	0.514	4.87	94.4
40418049		87.8	0.0008	0.25	0.08	15.00	0.166	1.29	417	0.51	0.038	7.49	0.315	0.494	2.37	104.5
40418050		81.7	0.0008	0.25	0.08	15.35	0.163	1.25	415	0.47	0.036	6.98	0.321	0.484	2.07	108.5
40418051		102.5	0.0005	0.21	0.06	12.25	0.150	1.48	413	0.50	0.027	10.55	0.267	0.593	4.98	84.1
40418052		98.1	0.0006	0.20	0.03	13.40	0.141	2.53	387	0.56	0.026	5.49	0.295	0.569	3.90	94.6
40418053		87.3	0.0013	0.26	0.04	15.15	0.186	1.08	454	0.52	0.032	7.61	0.331	0.506	2.64	108.5
40418054		86.7	0.0004	0.20	0.05	11.35	0.130	1.35	392	0.44	0.021	7.32	0.269	0.481	7.67	89.3
40418055		85.1	0.0006	0.22	0.05	16.80	0.133	1.07	459	0.47	0.033	8.10	0.353	0.459	2.04	118.0
40418056		83.3	0.0007	0.20	0.05	15.25	0.163	1.29	419	0.58	0.027	8.54	0.304	0.456	3.14	104.5
40418057		78.1	0.0008	0.23	0.06	14.30	0.173	1.06	475	0.48	0.030	9.04	0.315	0.417	2.50	104.5
40418058		94.9	0.0009	0.21	0.06	15.05	0.130	1.08	481	0.50	0.035	6.91	0.328	0.534	4.25	106.0
40418059		93.7	0.0007	0.25	0.05	15.15	0.164	1.29	436	0.53	0.029	7.21	0.344	0.526	3.44	110.5
40418060		105.0	0.0008	0.10	0.11	20.7	0.098	1.72	434	0.67	0.017	3.67	0.740	0.450	1.21	155.0
40418061		98.8	<0.0004	0.04	0.04	4.35	0.029	1.61	244	0.51	0.005	7.22	0.071	0.516	12.85	12.3

\*\*\*\*\* 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/geochemistry

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Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L
		W	Y	Zn	Zr	Au	Pt	Pd	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
		0.008	0.01	0.2	0.1	0.0004	0.004	0.002	1	0.1	0.2
40418044		0.490	10.60	74.0	115.5	0.0016	0.006	<0.002	<1	0.6	0.5
40418045		0.556	13.50	84.9	117.0	0.0016	0.006	0.007	<1	1.0	1.5
40418046		1.490	13.00	74.4	124.0	0.0013	0.007	0.003	3	0.8	1.1
40418047		0.594	12.70	84.2	126.0	0.0013	<0.004	<0.002	<1	0.9	0.7
40418048		0.549	11.55	71.4	110.5	0.0014	0.006	<0.002	1	0.7	0.6
40418049		0.569	12.25	80.1	123.0	0.0011	0.005	0.005	<1	0.7	0.7
40418050		0.502	12.05	81.2	109.5	0.0016	0.008	0.004	1	0.9	0.8
40418051		0.413	11.10	72.4	105.0	0.0008	0.004	<0.002	<1	0.8	0.8
40418052		0.387	11.35	79.5	94.6	<0.0004	0.007	<0.002	<1	0.4	0.5
40418053		0.425	13.00	80.2	120.0	0.0009	0.006	0.004	<1	0.9	0.9
40418054		0.440	10.35	69.7	105.5	0.0015	0.004	<0.002	<1	0.7	0.3
40418055		0.603	13.75	86.2	123.5	0.0013	<0.004	0.007	<1	0.9	1.2
40418056		0.644	12.85	80.6	114.0	0.0016	<0.004	<0.002	1	0.7	0.3
40418057		0.608	12.80	78.4	128.0	0.0022	0.005	0.003	<1	1.0	0.9
40418058		0.507	12.65	79.1	118.0	0.0016	0.007	0.008	<1	0.9	0.8
40418059		0.547	13.45	83.5	131.0	0.0017	0.006	0.002	<1	0.9	0.6
40418060		0.338	40.1	100.5	63.9	0.0008	0.005	<0.002	<1	<0.1	<0.2
40418061		0.250	8.95	37.0	36.5	<0.0004	<0.004	<0.002	<1	<0.1	<0.2

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



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 North Vancouver BC V7H 0A7  
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 1300 WALSH ST. W  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 28-OCT-2022  
 Account: RTECILHR

Project: EB80003527

**CERTIFICATE OF ANALYSIS TB22269675**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Au, Pt &amp; Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g)            ME-MS61L</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ME-MS61L</td> <td style="width: 50%;">PGM-MS23L</td> </tr> </table>	ME-MS61L	PGM-MS23L										
ME-MS61L	PGM-MS23L												





ALS Canada Ltd.  
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 North Vancouver BC V7H 0A7  
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Page: 1  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

**CERTIFICATE TB22269676**

Project: EB80003528  
 P.O. No.: 3105220123  
 This report is for 52 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 21-SEP-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21X	Addnl Crush Split w No Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

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:   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm	ME-MS81 Lu ppm	ME-MS81 Nb ppm
		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
40446136		3.59	480	51.1	129	3.67	2.33	1.23	0.83	17.3	3.10	3.87	0.47	26.5	0.18	5.29
40446137		3.67	716	71.7	140	3.37	2.61	1.22	1.12	18.3	3.74	3.68	0.48	36.6	0.15	5.91
40446138		3.51	665	53.4	143	3.85	2.09	1.14	0.86	18.6	2.85	3.70	0.38	28.0	0.15	6.19
40446139		3.63	620	52.6	179	3.95	2.16	1.15	0.84	18.9	3.18	3.79	0.41	26.4	0.16	6.67
40446140		3.64	564	59.9	144	4.76	2.65	1.38	1.04	19.0	3.65	3.94	0.46	30.6	0.18	6.95
40446141		0.17	145.0	23.2	2610	2.37	3.56	1.94	1.11	19.0	3.56	2.84	0.67	10.2	0.26	7.25
40446142		3.63	532	23.0	18	1.92	0.43	0.11	0.38	14.6	1.24	0.48	0.07	11.2	0.01	2.74
40446143		3.09	491	52.0	165	5.22	2.46	1.34	0.90	18.6	3.56	3.55	0.49	25.7	0.21	5.98
40446144		0.73	614	128.0	<5	0.82	7.68	3.60	3.43	23.4	10.90	9.36	1.41	58.7	0.40	36.8
40446145		3.50	602	62.3	150	2.33	2.84	1.34	1.12	17.8	4.07	3.39	0.52	28.9	0.20	7.01
40446146		2.45	513	41.7	88	1.91	1.98	0.96	0.58	17.6	2.80	2.61	0.36	23.3	0.12	5.34
40446147		3.19	389	39.4	25	2.46	1.26	0.52	0.39	18.0	2.46	2.24	0.23	18.8	0.06	5.26
40446148		3.62	276	56.4	16	3.27	1.80	0.73	0.40	15.7	3.81	2.64	0.28	25.4	0.08	2.70
40446149		1.48	382	37.8	13	1.58	0.89	0.30	0.40	14.2	2.27	2.61	0.14	17.2	0.03	1.84
40446150		1.70	406	31.7	18	1.61	0.75	0.21	0.38	14.2	1.90	2.05	0.09	14.4	0.02	1.80
40446151		3.29	413	28.6	15	2.36	1.00	0.40	0.35	15.8	1.84	2.02	0.17	13.4	0.04	3.42
40446152		2.92	392	18.0	13	1.80	0.79	0.31	0.35	15.3	1.22	1.30	0.13	8.7	0.02	2.47
40446153		0.94	573	41.5	81	1.64	3.18	1.92	1.20	19.7	4.24	3.12	0.67	18.2	0.27	5.08
40446154		3.78	635	51.3	127	2.32	2.55	1.60	0.98	18.0	3.41	3.51	0.53	25.8	0.23	5.18
40446155		3.77	686	51.3	122	3.35	2.80	1.71	1.03	20.1	3.69	3.55	0.55	25.4	0.25	5.50
40446156		2.93	570	55.3	155	5.16	2.20	1.18	0.82	19.4	3.14	3.61	0.45	28.6	0.17	6.56
40446157		2.48	344	19.9	23	2.29	0.83	0.37	0.37	14.8	1.40	1.47	0.13	9.5	0.02	3.68
40446158		3.72	517	47.5	165	6.63	2.24	1.24	0.82	18.6	3.12	3.42	0.45	24.0	0.18	6.70
40446159		1.18	541	121.0	<5	0.68	7.57	3.67	3.74	24.6	11.20	9.09	1.36	56.2	0.42	35.2
40446160		0.51	587	50.6	56	1.76	6.18	3.73	1.66	21.8	7.39	5.56	1.29	22.1	0.48	9.26
40446161		3.56	648	51.3	118	2.09	1.88	0.83	0.96	19.8	2.97	3.03	0.34	24.3	0.11	6.80
40446162		1.42	465	53.2	1070	2.29	2.71	1.29	1.43	14.6	4.52	2.41	0.52	24.0	0.17	3.80
40446163		3.20	544	48.4	215	2.18	2.86	1.54	1.01	18.6	3.82	3.56	0.58	23.8	0.22	5.92
40446164		3.60	509	46.2	218	5.67	2.76	1.55	0.96	20.4	3.39	3.53	0.59	22.7	0.22	6.25
40446165		2.88	542	49.2	200	3.24	2.63	1.64	1.09	18.6	3.62	3.43	0.51	24.2	0.23	5.71
40446166		2.96	425	72.2	383	2.18	3.32	1.64	1.58	17.8	5.12	3.72	0.63	34.2	0.19	11.20
40446167		0.97	547	56.6	147	3.65	2.54	1.24	1.04	18.7	3.39	3.11	0.43	29.5	0.16	6.83
40446168		0.82	579	54.9	160	3.38	2.74	1.52	1.14	18.1	3.44	2.90	0.51	29.5	0.20	6.43
40446169		1.55	651	130.0	<5	0.83	7.84	3.51	4.04	25.5	10.80	8.53	1.38	61.6	0.43	39.1
40446170		0.17	352	29.2	2670	2.66	3.78	2.16	1.31	21.1	4.12	2.67	0.73	14.3	0.29	8.13
40446171		1.56	889	46.8	10	3.37	2.48	1.08	1.37	18.0	3.85	2.93	0.44	23.5	0.11	13.05
40446172		2.72	319	66.4	31	6.33	2.18	0.66	0.63	20.7	4.08	2.62	0.30	33.4	0.08	10.90
40446173		2.06	462	36.5	13	2.64	1.18	0.45	0.45	14.5	2.49	2.79	0.18	17.6	0.04	3.07
40446174		2.72	518	21.9	13	1.72	0.83	0.31	0.46	13.9	1.40	1.28	0.13	10.7	0.03	3.65
40446175		2.83	577	60.9	233	2.54	2.74	1.38	0.99	18.5	3.60	3.39	0.49	32.3	0.18	6.52



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

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 2 - B  
Total # Pages: 3 (A - E)  
Plus Appendix Pages  
Finalized Date: 14-NOV-2022  
Account: RTECILHR

Project: EB80003528

CERTIFICATE OF ANALYSIS TB22269676

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
	Units LOD	ppm 0.1	ppm 0.02	ppm 0.2	ppm 0.03	ppm 0.5	ppm 0.1	ppm 0.1	ppm 0.01	ppm 0.05	ppm 0.01	ppm 0.05	ppm 5	ppm 0.5	ppm 0.1	ppm 0.03
40446136		22.0	5.94	60.4	4.08	1.0	299	0.3	0.40	7.88	0.16	2.06	101	0.8	11.6	1.17
40446137		30.3	8.23	67.1	5.01	0.9	520	0.4	0.47	9.28	0.18	2.61	106	1.9	12.0	1.06
40446138		22.0	5.99	83.2	3.77	1.2	435	0.4	0.37	8.43	0.18	2.07	102	0.7	10.9	1.05
40446139		22.3	6.06	99.2	4.16	1.1	365	0.4	0.40	10.40	0.17	10.60	98	1.0	11.2	1.01
40446140		26.3	6.87	93.4	4.81	1.5	376	0.5	0.45	9.36	0.20	3.14	115	0.9	12.6	1.18
40446141		13.6	3.13	21.9	3.48	1.9	324	0.3	0.53	1.10	0.27	0.24	168	0.6	17.4	1.68
40446142		9.9	2.71	144.5	2.17	0.6	215	0.1	0.14	8.85	0.01	2.53	5	1.0	1.6	0.09
40446143		23.3	6.15	104.5	5.11	1.7	362	0.4	0.41	9.84	0.19	4.13	117	0.9	12.8	1.21
40446144		65.9	16.10	63.3	13.95	2.4	665	2.4	1.33	6.41	0.44	2.18	179	1.2	34.6	2.80
40446145		30.6	7.69	103.0	5.73	1.5	390	2.1	0.50	7.74	0.19	2.84	131	1.5	12.4	1.22
40446146		18.0	4.86	103.5	4.05	2.0	316	0.4	0.37	9.98	0.12	4.07	127	6.3	9.5	0.76
40446147		16.6	4.56	108.0	3.62	2.0	235	0.4	0.29	12.20	0.06	8.64	13	0.9	6.1	0.39
40446148		25.0	6.79	97.7	5.49	1.8	184.5	0.4	0.39	21.4	0.08	7.74	<5	1.5	7.7	0.49
40446149		15.9	4.45	122.5	4.00	0.6	201	<0.1	0.25	15.05	0.04	7.52	<5	0.5	3.6	0.20
40446150		13.4	3.76	129.0	3.45	0.6	203	<0.1	0.19	12.35	0.02	6.56	<5	1.3	2.4	0.15
40446151		11.8	3.35	122.0	2.76	1.3	198.0	0.1	0.24	10.15	0.05	8.01	6	0.7	4.7	0.27
40446152		7.9	2.16	112.0	1.88	1.1	224	0.1	0.15	6.76	0.03	10.15	7	1.3	3.5	0.25
40446153		22.5	5.58	113.5	4.86	1.5	474	0.2	0.57	3.17	0.26	1.70	192	1.1	16.8	1.76
40446154		23.3	6.11	72.5	4.26	0.8	464	0.2	0.44	5.96	0.20	1.76	156	0.8	14.0	1.43
40446155		24.3	6.29	77.7	4.82	1.0	430	0.3	0.48	6.23	0.20	1.70	159	1.5	15.0	1.52
40446156		22.8	6.23	118.0	4.26	1.4	303	0.4	0.41	9.87	0.18	3.54	116	1.1	11.9	1.22
40446157		8.9	2.44	110.5	2.11	0.9	180.5	0.4	0.16	9.43	0.04	40.8	10	0.9	3.6	0.24
40446158		20.6	5.59	136.0	4.13	1.7	304	0.5	0.39	7.75	0.15	3.53	119	0.9	11.9	1.11
40446159		65.1	15.45	54.6	13.75	3.4	681	2.5	1.44	6.36	0.45	2.20	211	1.3	34.2	2.86
40446160		32.1	7.12	95.6	7.97	1.2	451	0.5	1.04	3.27	0.46	1.22	203	0.6	33.5	3.19
40446161		24.8	6.40	80.2	4.35	1.3	620	0.6	0.37	4.11	0.11	1.46	71	1.4	9.1	0.71
40446162		28.2	6.77	79.1	5.53	0.9	445	0.1	0.55	5.28	0.18	0.90	177	0.7	13.1	1.25
40446163		22.3	5.96	89.1	4.54	1.1	314	0.4	0.49	7.35	0.22	1.82	139	1.2	14.6	1.45
40446164		21.6	5.52	112.0	4.36	1.5	363	0.4	0.45	6.60	0.24	2.41	141	1.0	14.1	1.54
40446165		22.5	5.83	73.9	4.62	1.1	423	0.4	0.48	6.65	0.23	1.85	150	1.2	14.0	1.42
40446166		36.9	9.00	68.4	6.78	1.6	391	0.7	0.63	6.86	0.24	1.88	150	1.3	16.4	1.52
40446167		25.0	6.47	90.5	4.12	1.2	386	0.5	0.46	6.84	0.19	3.49	115	1.3	12.6	1.08
40446168		24.9	6.22	85.8	4.16	1.2	410	0.5	0.49	6.44	0.23	2.50	138	2.7	15.3	1.37
40446169		69.2	16.30	53.9	13.05	2.2	703	2.3	1.46	6.21	0.49	1.48	199	1.3	36.3	2.87
40446170		16.5	3.69	36.4	3.69	1.8	411	0.6	0.64	1.36	0.31	0.36	189	0.6	20.8	1.84
40446171		22.6	5.58	161.0	4.32	1.6	344	0.9	0.53	4.70	0.15	15.15	63	1.4	11.6	0.88
40446172		28.3	7.51	90.0	5.80	3.4	325	0.9	0.50	15.25	0.08	7.89	53	0.8	8.8	0.44
40446173		16.0	4.22	125.0	3.54	1.1	214	0.5	0.29	12.50	0.05	16.10	21	1.0	4.9	0.30
40446174		8.7	2.40	130.5	1.98	1.3	224	0.4	0.18	9.14	0.03	40.7	9	1.2	3.1	0.22
40446175		26.6	7.08	95.1	4.51	2.4	322	0.6	0.50	8.34	0.23	4.31	133	1.5	14.4	1.24



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - C  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
		Zr ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	
40446136		134	67.1	14.95	6.17	3.19	2.50	3.26	1.86	0.017	0.51	0.08	0.12	0.04	0.06	0.57	
40446137		131	65.8	15.20	6.30	3.62	2.76	3.46	2.09	0.018	0.52	0.08	0.17	0.06	0.09	0.67	
40446138		136	65.8	15.80	5.72	3.25	2.48	3.77	2.37	0.019	0.50	0.07	0.12	0.05	0.08	0.63	
40446139		128	65.3	15.30	5.53	2.90	2.66	3.31	3.10	0.023	0.47	0.07	0.12	0.04	0.08	0.61	
40446140		144	66.2	15.60	6.26	3.19	2.78	3.57	2.27	0.019	0.54	0.08	0.14	0.04	0.07	0.60	
40446141		99	43.4	18.40	14.10	9.54	7.62	2.11	0.63	0.322	1.29	0.15	0.14	0.04	0.02	1.49	
40446142		11	74.8	14.30	1.18	0.60	0.26	3.12	6.66	0.002	0.05	0.01	0.01	0.03	0.06	0.58	
40446143		121	64.4	15.15	6.36	2.86	3.01	3.49	2.31	0.021	0.52	0.10	0.12	0.04	0.06	2.32	
40446144		355	52.7	14.55	12.60	4.78	3.34	3.66	2.21	<0.002	2.33	0.15	0.51	0.08	0.07	3.63	
40446145		124	60.3	14.40	7.07	3.33	3.27	3.24	2.81	0.020	0.65	0.09	0.19	0.05	0.07	4.33	
40446146		84	67.7	14.75	4.31	1.92	1.54	3.69	3.77	0.011	0.30	0.06	0.09	0.04	0.06	2.25	
40446147		67	73.6	14.85	1.94	1.21	0.53	4.26	4.19	0.003	0.12	0.02	0.05	0.03	0.05	0.92	
40446148		63	75.6	14.40	0.95	1.44	0.16	4.31	3.66	0.002	0.04	0.01	0.02	0.02	0.03	0.40	
40446149		66	75.0	14.25	0.89	0.90	0.17	3.57	5.38	<0.002	0.03	0.01	0.02	0.03	0.05	0.63	
40446150		52	75.1	14.30	0.82	0.83	0.16	3.40	5.76	0.002	0.03	0.01	0.01	0.03	0.05	0.46	
40446151		51	73.9	14.65	1.28	0.96	0.28	3.88	5.13	0.002	0.06	0.02	0.02	0.02	0.05	0.65	
40446152		32	75.5	14.20	0.93	1.08	0.20	4.00	4.70	<0.002	0.04	0.01	0.03	0.03	0.05	0.55	
40446153		123	54.5	16.35	9.68	5.56	5.23	3.06	2.19	0.010	0.78	0.19	0.25	0.06	0.07	2.50	
40446154		130	61.4	16.05	7.42	4.50	3.67	3.18	2.15	0.017	0.63	0.12	0.19	0.06	0.08	1.19	
40446155		131	61.2	16.70	7.83	4.23	3.39	3.46	2.38	0.016	0.67	0.11	0.19	0.05	0.08	1.05	
40446156		127	65.8	15.70	6.35	2.46	2.62	3.77	2.70	0.020	0.53	0.08	0.11	0.03	0.07	1.03	
40446157		33	75.9	13.60	1.46	1.08	0.30	3.50	4.61	0.003	0.07	0.02	0.02	0.02	0.04	0.45	
40446158		118	65.2	15.40	6.60	2.63	2.90	3.20	3.10	0.022	0.54	0.10	0.12	0.04	0.06	1.24	
40446159		349	50.4	14.15	11.80	5.79	2.94	4.01	1.80	<0.002	2.26	0.13	0.49	0.08	0.07	4.39	
40446160		206	55.0	16.75	9.79	6.48	3.57	3.29	2.35	0.007	1.38	0.13	0.38	0.05	0.07	0.57	
40446161		105	63.7	16.15	4.62	4.94	3.19	3.87	2.50	0.015	0.36	0.09	0.26	0.07	0.08	1.54	
40446162		89	51.2	13.40	8.40	6.84	10.60	2.08	2.20	0.130	0.52	0.15	0.28	0.05	0.06	3.48	
40446163		131	61.1	15.65	6.99	2.86	3.29	3.61	2.54	0.028	0.58	0.10	0.14	0.04	0.07	3.25	
40446164		127	62.5	16.45	7.43	2.63	3.33	3.41	2.68	0.028	0.60	0.10	0.14	0.04	0.06	1.21	
40446165		127	62.2	15.65	7.35	3.77	3.78	3.62	2.10	0.025	0.61	0.11	0.15	0.05	0.06	1.87	
40446166		149	58.2	13.90	8.30	4.94	5.87	3.20	1.83	0.049	0.82	0.12	0.22	0.05	0.05	2.78	
40446167		125	62.7	15.10	6.45	3.18	3.28	3.40	2.34	0.021	0.52	0.09	0.15	0.05	0.06	2.57	
40446168		124	62.1	15.45	7.62	2.87	3.25	3.47	2.38	0.023	0.61	0.11	0.15	0.05	0.06	2.64	
40446169		363	51.2	14.10	12.10	5.67	3.06	3.82	2.00	<0.002	2.28	0.14	0.53	0.08	0.07	3.81	
40446170		111	44.9	18.70	12.20	9.41	7.39	2.08	1.07	0.352	1.32	0.14	0.15	0.05	0.04	1.99	
40446171		114	67.9	14.50	3.91	1.82	1.04	2.98	5.95	0.002	0.66	0.05	0.16	0.04	0.10	1.06	
40446172		103	71.2	15.10	3.42	2.17	0.94	4.62	2.50	0.005	0.25	0.04	0.10	0.04	0.03	0.81	
40446173		75	73.2	14.35	1.29	1.02	0.20	3.39	5.94	0.002	0.05	0.02	0.04	0.03	0.05	0.47	
40446174		40	76.1	13.55	1.20	0.81	0.27	3.20	5.82	0.002	0.06	0.01	0.03	0.02	0.05	0.48	
40446175		130	62.7	15.00	6.76	2.54	3.46	3.37	2.46	0.031	0.56	0.09	0.16	0.04	0.06	3.39	



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - D  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L
		Total %	Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	S %	Au ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446136		100.43	<0.5	<5	<0.5	20	44	50	2	59	14	12	<10	77	0.23	<1
40446137		100.84	<0.5	<5	<0.5	20	43	30	2	66	15	12	<10	80	0.30	<1
40446138		100.66	<0.5	<5	<0.5	19	43	40	2	57	18	12	<10	78	0.22	<1
40446139		99.51	<0.5	<5	<0.5	19	40	50	2	68	29	12	<10	75	0.15	<1
40446140		101.36	<0.5	<5	<0.5	21	46	50	2	63	17	14	<10	83	0.27	2
40446141		99.25	1.2	7	0.6	100	3890	30	5	1955	6	17	<10	110	0.93	73
40446142		101.66	<0.5	<5	<0.5	2	8	10	<1	6	53	1	<10	12	0.02	<1
40446143		100.76	<0.5	<5	<0.5	22	61	50	1	63	14	14	<10	81	0.24	<1
40446144		100.61	<0.5	<5	<0.5	31	20	50	3	5	2	14	<10	105	0.13	<1
40446145		99.82	<0.5	<5	<0.5	25	50	50	1	73	6	14	<10	83	0.37	<1
40446146		100.49	<0.5	<5	<0.5	13	40	30	1	34	26	8	<10	54	0.33	<1
40446147		101.77	<0.5	<5	<0.5	3	5	20	1	8	38	3	<10	32	0.05	<1
40446148		101.04	<0.5	<5	<0.5	<1	1	10	1	4	39	1	<10	12	0.02	<1
40446149		100.93	<0.5	<5	<0.5	1	2	10	1	4	40	1	<10	9	0.01	<1
40446150		100.96	<0.5	<5	<0.5	1	2	10	1	3	47	1	<10	9	0.01	<1
40446151		100.90	<0.5	<5	<0.5	2	5	10	1	4	40	2	<10	18	0.03	<1
40446152		101.32	<0.5	<5	<0.5	1	6	10	1	2	43	1	<10	12	0.03	<1
40446153		100.43	<0.5	<5	<0.5	29	40	60	1	24	5	18	<10	92	0.19	<1
40446154		100.66	<0.5	<5	<0.5	25	47	40	2	48	15	16	<10	94	0.18	<1
40446155		101.36	<0.5	<5	<0.5	24	49	50	2	53	15	17	<10	98	0.20	<1
40446156		101.27	<0.5	<5	<0.5	22	62	50	3	72	18	13	<10	94	0.25	<1
40446157		101.07	<0.5	<5	<0.5	3	7	10	3	7	65	2	<10	20	0.04	2
40446158		101.15	<0.5	<5	<0.5	22	65	50	2	72	18	15	<10	91	0.26	<1
40446159		98.31	<0.5	21	<0.5	34	31	40	2	7	11	15	<10	115	0.16	<1
40446160		99.82	<0.5	<5	<0.5	31	34	20	1	43	11	19	<10	112	0.12	<1
40446161		101.39	<0.5	<5	<0.5	15	42	30	1	44	13	9	<10	66	0.24	<1
40446162		99.39	<0.5	<5	<0.5	41	21	60	<1	296	7	21	<10	86	0.07	1
40446163		100.25	<0.5	<5	<0.5	27	63	40	2	82	28	16	<10	120	0.21	3
40446164		100.61	<0.5	<5	<0.5	28	62	70	2	95	14	18	<10	94	0.21	2
40446165		101.35	<0.5	<5	<0.5	27	56	50	1	74	11	18	<10	88	0.25	<1
40446166		100.33	<0.5	<5	<0.5	31	37	50	2	149	9	18	<10	88	0.18	2
40446167		99.91	<0.5	<5	<0.5	21	44	50	1	60	14	13	<10	82	0.22	<1
40446168		100.78	<0.5	<5	<0.5	27	60	60	2	78	11	17	<10	88	0.31	<1
40446169		98.86	<0.5	<5	<0.5	34	14	50	2	7	5	14	<10	106	0.16	<1
40446170		99.79	0.6	<5	<0.5	66	1160	40	3	715	5	18	<10	114	0.34	22
40446171		100.17	<0.5	<5	<0.5	7	6	30	1	3	37	5	<10	46	0.05	<1
40446172		101.23	<0.5	<5	<0.5	6	26	30	1	14	29	6	<10	64	0.12	<1
40446173		100.05	<0.5	<5	<0.5	1	5	10	1	4	50	2	<10	15	0.02	<1
40446174		101.60	<0.5	<5	<0.5	2	2	10	2	3	64	2	<10	16	0.01	<1
40446175		100.62	<0.5	<5	<0.5	24	46	50	2	88	13	14	<10	89	0.24	5

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - E  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	PGM-MS23L	PGM-MS23L
		Pt ppb	Pd ppb
		0.1	0.2
40446136		0.9	4.2
40446137		0.8	0.7
40446138		0.8	1.2
40446139		0.9	1.3
40446140		0.7	0.8
40446141		130.0	764
40446142		<0.1	<0.2
40446143		0.6	1.0
40446144		<0.1	<0.2
40446145		0.9	0.7
40446146		0.6	<0.2
40446147		<0.1	<0.2
40446148		<0.1	<0.2
40446149		<0.1	<0.2
40446150		<0.1	<0.2
40446151		<0.1	<0.2
40446152		<0.1	<0.2
40446153		<0.1	<0.2
40446154		0.4	0.4
40446155		0.8	0.8
40446156		1.0	1.3
40446157		<0.1	<0.2
40446158		1.0	1.4
40446159		<0.1	<0.2
40446160		<0.1	<0.2
40446161		0.8	0.8
40446162		2.6	3.5
40446163		1.3	1.7
40446164		1.5	1.9
40446165		0.7	1.1
40446166		1.1	0.9
40446167		0.9	0.8
40446168		1.1	1.4
40446169		<0.1	<0.2
40446170		50.0	230
40446171		<0.1	<0.2
40446172		<0.1	<0.2
40446173		<0.1	<0.2
40446174		<0.1	<0.2
40446175		1.0	1.6



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Page: 3 - A  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Recvd Wt. kg	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Nb ppm
		0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
40446176		1.87	312	22.2	42	3.33	1.36	0.53	0.43	20.5	1.88	1.70	0.23	11.2	0.06	3.69
40446177		1.71	699	74.5	11	1.50	1.62	0.37	0.56	13.5	3.84	2.78	0.19	35.6	0.03	4.84
40446178		2.49	711	66.1	134	3.87	2.72	1.44	1.16	19.9	3.78	3.57	0.47	34.2	0.22	7.45
40446179		1.38	752	74.7	146	2.74	2.67	1.28	1.17	18.7	3.85	4.34	0.45	38.7	0.20	6.90
40446180		1.50	345	72.0	545	3.99	11.60	8.34	0.92	13.3	7.56	4.72	2.59	38.0	1.46	11.05
40446181		1.63	694	67.1	131	2.44	2.06	1.06	1.04	16.7	3.23	3.26	0.42	34.9	0.17	5.95
40446182		2.54	688	63.0	124	4.45	2.32	1.25	1.01	17.3	2.97	3.80	0.44	35.2	0.17	6.78
40446183		Not Recvd														
40422976		0.24	153.5	19.6	113	0.44	4.41	2.44	1.07	18.8	3.88	2.46	0.85	9.5	0.31	4.78
40422978		0.43	168.0	28.5	1360	0.21	2.24	1.10	1.18	14.0	3.46	1.35	0.38	10.5	0.13	2.02
40422980		0.73	132.0	22.0	1940	0.81	1.84	0.89	0.90	13.4	2.86	1.30	0.33	8.2	0.11	2.23
40422982		0.75	81.1	28.4	1595	0.13	2.82	1.30	1.44	15.3	4.05	1.64	0.50	9.8	0.17	2.46

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - B  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.2	0.03	0.5	0.1	0.01	0.05	0.01	0.05	5	0.5	0.1	0.03	
40446176		10.1	2.60	95.3	2.11	3.6	237	0.4	0.25	5.42	0.07	7.59	58	0.8	6.4	0.41
40446177		30.7	8.33	123.5	5.63	0.9	196.0	0.4	0.40	25.8	0.04	12.10	6	23.8	5.5	0.24
40446178		28.6	7.44	112.0	4.27	1.5	362	0.7	0.47	8.80	0.22	3.25	117	1.2	13.8	1.44
40446179		31.1	8.19	88.3	4.92	1.6	429	0.7	0.48	9.64	0.21	3.01	106	1.5	13.2	1.28
40446180		28.5	7.79	213	6.19	2.9	97.7	1.6	1.57	52.6	1.46	266	47	2.0	70.4	9.13
40446181		28.2	7.41	78.5	4.28	1.2	363	0.5	0.42	7.79	0.17	2.51	88	1.2	11.2	1.20
40446182		24.2	6.62	88.9	4.05	1.5	349	0.7	0.41	9.28	0.19	3.11	122	1.6	12.3	1.16
40446183																
40422976		12.4	2.55	13.7	3.25	0.8	150.5	0.4	0.67	1.64	0.39	0.50	324	0.5	22.6	2.19
40422978		21.6	4.38	13.8	4.31	0.7	252	0.2	0.42	0.23	0.17	0.16	220	0.5	10.8	0.90
40422980		16.2	3.38	9.5	3.43	0.8	361	0.2	0.34	0.34	0.13	0.24	152	0.6	9.4	0.71
40422982		24.2	4.88	5.9	5.18	0.7	146.0	0.2	0.53	0.16	0.20	0.12	251	0.7	13.0	1.14

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - C  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	ME-MS81 Zr ppm	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %
		1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40446176		54	70.8	12.75	6.87	1.56	1.14	3.08	3.73	0.006	0.24	0.06	0.08	0.03	0.03	0.74
40446177		80	75.5	13.65	1.30	0.77	0.25	3.10	5.88	0.002	0.07	0.02	0.03	0.02	0.08	0.66
40446178		141	64.6	15.30	6.77	2.67	2.86	3.29	2.69	0.019	0.53	0.08	0.15	0.04	0.08	2.19
40446179		167	65.5	15.20	5.80	3.08	3.02	3.53	2.22	0.021	0.52	0.08	0.18	0.05	0.09	2.42
40446180		155	71.3	11.00	3.47	3.22	1.72	1.70	4.65	0.078	0.21	0.06	0.07	0.01	0.04	2.29
40446181		132	75.7	13.25	1.46	0.67	0.32	3.00	6.14	0.003	0.08	0.02	0.02	0.02	0.08	0.61
40446182		155	66.8	15.15	5.68	2.70	2.40	3.56	2.31	0.018	0.49	0.08	0.14	0.04	0.08	1.12
40446183																
40422976		94	47.8	14.60	14.90	9.80	7.82	2.35	0.45	0.018	1.24	0.20	0.10	0.02	0.02	0.17
40422978		35	50.1	9.13	9.78	10.50	13.40	2.08	0.88	0.186	0.59	0.16	0.12	0.03	0.02	1.64
40422980		44	51.6	8.99	8.36	9.84	14.35	2.59	0.49	0.269	0.47	0.14	0.16	0.05	0.01	1.85
40422982		39	48.8	9.02	10.90	10.85	14.50	2.09	0.50	0.207	0.70	0.16	0.02	0.02	0.01	1.24

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - D  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	S-IR08	PGM-MS23L	
		Total	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	S	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
		0.01	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01	1
40446176		101.12	<0.5	<5	<0.5	13	45	20	1	15	30	6	<10	82	0.51	<1
40446177		101.33	<0.5	<5	<0.5	2	26	10	3	5	58	2	<10	18	0.02	11
40446178		101.27	<0.5	<5	<0.5	22	68	60	2	65	17	14	<10	87	0.24	<1
40446179		101.71	<0.5	<5	<0.5	20	68	60	2	72	26	11	<10	99	0.24	<1
40446180		99.82	<0.5	<5	<0.5	19	65	60	2	67	23	11	<10	89	0.22	<1
40446181		101.37	<0.5	<5	<0.5	2	3	10	2	4	48	2	<10	18	0.01	<1
40446182		100.57	<0.5	<5	<0.5	18	47	60	2	53	18	12	<10	82	0.21	<1
40446183																
40422976		99.49	<0.5	<5	<0.5	63	149	10	1	172	2	31	<10	110	0.02	3
40422978		98.62	<0.5	<5	<0.5	59	55	20	<1	263	2	37	<10	85	0.02	<1
40422980		99.17	<0.5	<5	<0.5	53	10	10	<1	366	4	33	<10	90	0.01	<1
40422982		99.02	<0.5	<5	<0.5	66	12	10	<1	364	3	40	<10	109	0.01	<1

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 3 - E  
 Total # Pages: 3 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

Sample Description	Method Analyte Units LOD	PGM-MS23L	PGM-MS23L
		Pt ppb 0.1	Pd ppb 0.2
40446176		<0.1	<0.2
40446177		<0.1	<0.2
40446178		0.8	0.8
40446179		0.6	0.4
40446180		0.6	0.6
40446181		<0.1	<0.2
40446182		0.9	0.9
40446183			
40422976		10.8	15.7
40422978		5.1	6.5
40422980		2.4	2.0
40422982		6.3	5.2



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 14-NOV-2022  
 Account: RTECILHR

Project: EB80003528

**CERTIFICATE OF ANALYSIS TB22269676**

	<b>CERTIFICATE COMMENTS</b>												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21			
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS81</td> <td style="width: 17%;">OA-GRA05</td> </tr> <tr> <td>PGM-MS23L</td> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> </tr> </table>	ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05	PGM-MS23L	S-IR08	TOT-ICP06					
ME-4ACD81	ME-ICP06	ME-MS81	OA-GRA05										
PGM-MS23L	S-IR08	TOT-ICP06											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 1  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
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**CERTIFICATE TB22269677**

Project: EB80003529  
 P.O. No.: 3105220123  
 This report is for 137 samples of 1/2 Core submitted to our lab in Thunder Bay, ON, Canada on 21-SEP-2022.  
 The following have access to data associated with this certificate:

SARTX ACQUIRESERVICE CURTIS OVERHOLT	SUE DRIEBERG RTXAMRNA ASSAY RESULTS	LINDSAY MCCLENAGHAN
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
PUL-QC	Pulverizing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
WSH-21	"Wash" crushers
SPL-22	Split sample - rotary splitter
PUL-32	Pulverize 1000g to 85% < 75 um
WSH-22	"Wash" pulverizers
SPL-21X	Addnl Crush Split w No Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
TOT-ICP06	Total Calculation for ICP06	
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
C-IR07	Total Carbon (IR Spectroscopy)	LECO
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42L	Super Trace AR/ICPMS Selected Analytes	ICP-MS
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	
PGM-MS23L	Low level PGM - FA ICPMS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

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:   
 Saa Traxler, Director, North Vancouver Operations



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 2 - A  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40203750		1.16	50.1	16.60	12.20	7.85	4.72	3.61	1.88	0.009	1.80	0.17	0.46	0.06	0.06	0.47
40203751		2.29	64.0	14.25	7.81	2.42	2.67	3.66	2.11	0.018	0.53	0.10	0.15	0.04	0.07	1.55
40203752		2.01	64.6	14.85	8.15	2.21	2.56	4.26	2.38	0.018	0.53	0.09	0.12	0.04	0.07	1.14
40203753		2.19	61.1	13.95	9.74	2.23	2.62	3.77	1.78	0.021	0.46	0.06	0.16	0.03	0.04	2.87
40203754		1.29	51.4	17.00	11.30	7.60	4.36	3.56	2.11	0.008	1.63	0.16	0.42	0.06	0.07	0.51
40203755		0.92	71.5	13.90	1.56	1.43	0.30	4.01	5.90	0.004	0.05	0.01	0.16	0.03	0.07	1.16
40203756		1.00	70.8	14.00	1.31	1.20	0.23	4.05	6.09	0.003	0.04	0.01	0.11	0.03	0.07	1.00
40203757		2.12	74.5	12.75	0.88	0.61	0.22	3.07	6.41	0.002	0.04	0.01	0.01	0.02	0.08	0.57
40203758		0.17	42.5	17.75	14.40	9.71	7.97	2.23	0.66	0.332	1.34	0.15	0.15	0.04	0.02	1.41
40203759		1.25	52.1	17.35	10.25	7.36	3.79	3.85	1.88	0.007	1.44	0.14	0.35	0.06	0.06	0.49
40203760		1.74	67.6	15.15	3.33	2.37	1.22	4.90	2.67	0.006	0.24	0.04	0.10	0.07	0.08	0.96
40203761		1.75	70.0	15.55	2.88	2.36	1.34	5.09	1.98	0.005	0.26	0.05	0.11	0.08	0.07	1.17
40203762		1.52	53.0	14.35	12.65	5.21	3.17	4.17	2.01	<0.002	2.39	0.15	0.54	0.08	0.08	3.10
40203763		0.17	43.2	18.35	14.30	9.73	7.76	2.17	0.66	0.331	1.35	0.15	0.15	0.04	0.02	1.45
40203764		0.98	51.7	14.75	12.85	5.08	3.36	4.11	2.79	<0.002	2.49	0.16	0.53	0.08	0.08	2.80
40203765		0.94	51.6	14.70	12.85	5.09	3.33	4.07	2.77	<0.002	2.45	0.16	0.54	0.08	0.09	2.74
40203766		1.96	51.2	14.60	13.00	5.03	3.38	3.73	2.83	<0.002	2.44	0.16	0.54	0.09	0.13	2.82
40203767		1.22	52.9	14.65	11.65	4.54	3.11	4.34	1.90	0.002	2.10	0.14	0.46	0.07	0.07	3.23
40203768		1.33	49.7	16.80	10.90	6.89	4.14	3.42	1.84	0.010	1.62	0.15	0.43	0.05	0.06	0.40
40203769		1.90	60.4	14.45	6.86	2.78	2.93	3.35	1.94	0.020	0.56	0.11	0.11	0.05	0.05	2.33
40203770		1.70	63.6	15.10	5.92	2.86	2.93	3.49	2.61	0.023	0.51	0.08	0.13	0.05	0.08	2.84
40203771		1.82	64.0	14.70	5.93	2.64	2.91	3.59	2.08	0.026	0.49	0.08	0.13	0.04	0.06	1.97
40203772		1.33	60.6	14.60	7.41	3.61	4.99	3.11	1.63	0.059	0.57	0.15	0.17	0.05	0.05	2.43
40203773		1.44	51.0	14.05	12.05	5.08	3.16	4.16	2.15	<0.002	2.31	0.15	0.52	0.07	0.06	3.30
40203774		0.88	51.2	14.05	12.40	4.89	3.27	3.75	2.73	<0.002	2.40	0.15	0.51	0.08	0.08	2.86
40203775		0.79	52.4	14.35	12.70	5.02	3.37	3.80	2.81	<0.002	2.45	0.15	0.52	0.08	0.09	2.74
40203776		1.75	54.3	13.15	12.75	5.73	3.18	4.09	1.97	<0.002	2.41	0.15	0.55	0.09	0.07	3.33
40203777		1.86	62.8	15.35	7.79	3.01	3.42	3.36	2.21	0.026	0.64	0.13	0.14	0.06	0.06	1.77
40203778		1.67	64.3	14.35	6.82	3.50	3.02	3.18	1.96	0.020	0.59	0.11	0.15	0.05	0.06	1.93
40203779		1.96	65.2	14.95	6.56	2.92	2.61	3.44	2.02	0.018	0.52	0.08	0.16	0.04	0.06	1.11
40203780		1.92	64.2	14.45	7.73	2.91	3.14	3.75	2.70	0.023	0.58	0.08	0.14	0.04	0.07	1.08
40203781		1.11	56.0	13.15	9.39	6.32	7.00	2.33	2.14	0.067	0.59	0.12	0.30	0.07	0.07	1.79
40203782		0.55	50.3	11.65	13.10	7.37	9.97	1.68	1.88	0.109	0.59	0.17	0.34	0.06	0.06	2.25
40203783		0.55	50.0	11.10	13.55	7.52	10.30	1.54	1.81	0.124	0.57	0.18	0.31	0.05	0.06	2.22
40203784		0.23	41.0	17.90	16.50	9.32	6.26	1.88	0.88	0.087	1.34	0.13	0.13	0.05	0.02	3.12
40203785		0.92	61.5	14.60	7.89	4.75	4.90	2.70	2.26	0.045	0.61	0.10	0.19	0.06	0.07	1.19
40203786		1.09	52.6	16.00	11.25	7.82	4.58	3.56	1.94	0.008	1.52	0.15	0.41	0.06	0.06	0.50
40203787		1.87	65.7	15.90	6.65	2.72	2.63	3.92	2.55	0.018	0.58	0.09	0.14	0.04	0.07	0.77
40203788		1.92	65.9	15.25	6.78	2.62	2.49	3.53	3.06	0.015	0.45	0.08	0.15	0.03	0.05	0.74
40203789		1.64	70.8	16.00	2.32	2.27	1.35	4.87	2.96	0.012	0.14	0.04	0.13	0.04	0.07	0.84

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2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Total % 0.01	C % 0.01	S % 0.01	Ba ppm 0.5	Ce ppm 0.1	Cr ppm 5	Cs ppm 0.01	Dy ppm 0.05	Er ppm 0.03	Eu ppm 0.02	Ga ppm 0.1	Gd ppm 0.05	Hf ppm 0.05	Ho ppm 0.01	La ppm 0.1
40203750		99.99	0.09	0.15	516	63.7	66	1.60	8.32	4.43	2.25	25.7	9.02	5.39	1.66	26.4
40203751		99.38	0.13	0.22	617	60.8	142	4.54	2.61	1.29	1.17	20.0	3.61	3.25	0.53	31.5
40203752		101.02	0.04	0.20	564	63.4	139	5.63	2.59	1.28	1.09	19.6	3.07	3.66	0.51	32.6
40203753		98.83	0.23	1.47	340	69.5	159	2.60	3.49	1.28	0.88	24.4	4.66	4.17	0.59	33.0
40203754		100.19	0.08	0.16	561	72.7	64	1.52	8.62	4.50	2.20	25.5	9.41	6.73	1.74	30.1
40203755		100.08	0.23	0.17	598	32.3	29	1.90	2.87	1.32	0.59	14.9	3.31	5.77	0.47	14.3
40203756		98.94	0.20	0.09	629	27.5	20	1.94	2.19	0.88	0.57	14.6	2.97	6.98	0.38	12.8
40203757		99.17	0.08	0.02	652	24.3	18	1.60	0.39	0.15	0.52	13.4	1.34	1.58	0.05	11.1
40203758		98.66	0.03	0.89	156.0	27.4	2530	2.74	3.67	1.90	1.52	21.6	3.58	2.77	0.70	12.2
40203759		99.13	0.08	0.16	475	67.0	53	1.44	7.75	4.46	1.99	25.3	8.36	6.73	1.44	28.9
40203760		98.74	0.08	0.06	660	43.9	43	2.58	1.13	0.39	0.63	22.0	1.87	3.07	0.15	22.1
40203761		100.95	0.07	0.05	610	39.2	39	1.28	1.14	0.54	0.70	21.0	1.84	3.13	0.22	20.8
40203762		100.90	0.22	0.13	625	124.5	<5	0.61	7.71	3.50	3.67	23.4	10.75	8.79	1.35	58.6
40203763		99.66	0.03	0.89	146.5	21.5	2680	2.38	3.33	1.90	1.23	19.2	3.25	2.61	0.68	9.8
40203764		100.78	0.16	0.13	647	115.0	8	0.68	7.37	3.95	3.72	23.3	10.30	8.98	1.32	51.8
40203765		100.47	0.16	0.14	683	120.0	6	0.67	7.49	3.45	4.24	23.6	11.05	9.22	1.38	53.8
40203766		99.95	0.13	0.15	997	115.0	<5	0.82	7.77	3.65	4.17	23.1	11.25	8.95	1.38	51.1
40203767		99.16	0.26	0.16	561	107.5	21	0.82	6.67	3.01	3.38	22.8	9.50	8.05	1.20	49.3
40203768		96.41	0.10	0.15	510	52.4	62	1.38	6.98	4.03	1.90	22.9	7.57	4.65	1.48	21.6
40203769		95.94	0.14	0.30	468	43.8	175	2.66	2.35	1.28	1.02	18.7	3.08	3.33	0.49	21.8
40203770		100.22	0.29	0.22	622	44.5	176	2.66	2.10	1.16	1.00	17.6	2.75	2.84	0.39	22.5
40203771		98.65	0.07	0.17	485	45.0	215	3.05	2.21	1.25	1.08	19.5	2.97	2.99	0.43	22.9
40203772		99.43	0.06	0.13	431	46.8	465	1.46	2.47	1.30	1.20	17.8	3.48	3.32	0.49	23.1
40203773		98.06	0.24	0.14	529	118.5	6	0.54	7.30	3.54	4.01	23.2	10.90	8.97	1.36	53.1
40203774		98.37	0.11	0.12	694	119.5	6	0.83	7.69	3.57	3.95	25.7	10.85	8.72	1.38	53.7
40203775		100.48	0.11	0.12	671	113.0	6	0.78	7.67	3.32	4.06	24.2	10.85	8.42	1.38	50.1
40203776		101.77	0.26	0.13	588	117.5	5	0.71	7.90	3.50	3.89	24.9	10.90	8.86	1.42	51.8
40203777		100.77	0.05	0.34	514	43.8	203	2.61	2.82	1.52	1.12	18.6	3.32	3.39	0.53	21.7
40203778		100.04	0.11	0.28	473	48.4	162	2.50	2.62	1.48	1.28	18.4	3.40	3.25	0.53	23.9
40203779		99.69	0.07	0.15	512	47.1	138	3.38	2.44	1.38	1.04	18.5	3.29	3.24	0.48	23.9
40203780		100.89	0.04	0.55	567	58.2	174	5.62	2.34	1.19	1.16	20.7	3.22	3.65	0.46	30.0
40203781		99.34	0.06	0.94	549	51.3	525	4.28	2.82	1.59	1.26	16.6	3.91	3.10	0.55	24.1
40203782		99.53	0.03	1.89	463	65.5	874	3.16	2.50	1.20	1.50	14.4	4.41	3.15	0.45	28.1
40203783		99.33	0.03	2.11	430	61.4	1010	3.02	2.55	1.21	1.48	13.8	4.35	2.65	0.43	25.9
40203784		98.62	0.03	2.71	176.5	20.6	695	2.71	2.89	1.69	1.18	18.2	3.34	2.34	0.60	9.5
40203785		100.87	0.03	0.44	601	52.5	356	3.50	2.23	1.24	1.16	18.3	3.36	3.57	0.46	26.1
40203786		100.46	0.08	0.17	493	63.2	63	1.44	8.90	5.06	1.99	23.9	9.16	5.74	1.77	26.3
40203787		101.78	0.02	0.17	584	56.6	143	5.37	2.51	1.26	1.12	19.6	3.36	3.53	0.49	29.1
40203788		101.15	0.03	0.17	454	40.2	119	7.01	2.23	1.24	0.95	19.2	2.75	2.77	0.46	20.1
40203789		101.84	0.07	0.04	535	10.0	95	3.29	1.42	0.58	0.30	19.2	1.46	1.61	0.28	4.6



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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To: RIO TINTO EXPLORATION CANADA INC.  
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Page: 2 - C  
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 Plus Appendix Pages  
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Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.05	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 0.5	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 0.5
40203750	0.62	10.30	38.8	9.23	73.2	9.13	2.1	513	0.7	1.34	2.90	0.57	1.32	232	0.5
40203751	0.22	7.14	24.5	6.92	73.1	4.15	1.4	351	0.6	0.43	8.55	0.18	2.60	106	0.8
40203752	0.19	7.62	25.6	6.98	89.6	4.34	0.9	376	0.7	0.43	8.71	0.19	2.49	106	0.7
40203753	0.15	10.35	28.7	8.08	72.8	5.59	3.5	298	0.6	0.68	13.75	0.17	7.52	95	0.7
40203754	0.62	13.00	42.2	10.10	86.4	9.26	2.2	543	0.8	1.54	5.29	0.64	1.59	217	0.6
40203755	0.10	2.70	13.6	3.66	123.5	3.56	0.7	259	0.4	0.56	10.05	0.14	8.02	6	0.5
40203756	0.12	2.54	12.1	3.35	132.5	2.82	0.6	261	0.4	0.37	9.39	0.11	7.95	<5	0.6
40203757	0.01	2.38	9.6	2.73	131.5	1.43	0.7	247	0.3	0.13	9.18	0.01	3.67	<5	2.2
40203758	0.24	8.41	14.6	3.58	24.0	3.58	2.1	365	0.6	0.65	1.16	0.28	0.30	184	0.8
40203759	0.52	12.25	39.1	8.97	79.3	8.14	1.6	554	0.8	1.20	3.51	0.53	1.62	200	0.5
40203760	0.09	4.49	17.0	4.91	81.0	2.42	1.8	621	0.5	0.21	6.03	0.07	2.79	32	0.5
40203761	0.08	3.98	17.1	4.54	57.9	2.53	1.7	642	0.5	0.27	4.49	0.07	3.20	36	0.7
40203762	0.44	38.4	68.6	16.35	51.7	13.60	2.5	646	2.2	1.49	6.18	0.46	1.48	164	1.0
40203763	0.23	6.91	12.8	2.84	23.8	3.51	2.5	321	0.5	0.55	1.06	0.23	0.27	185	0.7
40203764	0.39	34.8	62.2	14.10	71.6	14.05	2.4	613	2.4	1.38	5.78	0.45	1.34	175	0.9
40203765	0.38	36.9	64.7	15.05	74.6	14.10	2.4	624	2.4	1.50	5.98	0.45	1.44	181	0.9
40203766	0.39	34.6	61.9	14.35	79.7	13.00	2.1	677	2.4	1.54	6.19	0.46	1.40	177	0.9
40203767	0.37	31.0	57.3	13.05	54.7	12.05	2.3	506	2.1	1.26	5.82	0.41	1.70	161	0.8
40203768	0.56	10.05	33.8	7.09	79.5	8.39	1.7	466	0.7	1.22	3.02	0.56	1.24	213	0.6
40203769	0.18	5.21	20.3	5.17	78.4	3.65	1.0	433	0.5	0.45	6.19	0.20	1.93	136	0.8
40203770	0.15	5.11	20.0	5.05	84.0	3.92	1.1	368	0.5	0.40	7.11	0.14	2.65	108	0.8
40203771	0.17	5.92	20.5	5.28	79.2	4.06	1.3	368	0.6	0.43	7.04	0.17	3.34	111	0.9
40203772	0.19	4.96	21.9	5.28	61.8	4.15	1.0	425	0.5	0.45	6.74	0.20	2.83	134	0.6
40203773	0.44	35.8	62.8	14.65	57.5	13.90	2.4	573	2.4	1.46	5.80	0.47	1.42	177	1.1
40203774	0.42	36.4	64.7	14.75	76.8	13.75	2.4	669	2.4	1.40	5.69	0.48	1.43	194	1.0
40203775	0.38	35.0	63.0	14.10	74.2	13.40	2.5	643	2.3	1.52	5.89	0.44	1.40	183	0.9
40203776	0.40	35.4	63.6	14.35	56.6	13.45	2.5	734	2.3	1.54	5.83	0.46	1.47	181	1.7
40203777	0.20	5.39	20.5	5.13	81.1	4.20	1.1	464	0.5	0.52	5.72	0.22	1.66	148	0.8
40203778	0.23	5.51	22.5	5.68	71.8	4.48	1.1	416	0.5	0.50	7.06	0.20	2.61	131	0.8
40203779	0.20	5.59	21.4	5.53	68.7	4.09	1.2	314	0.6	0.46	7.53	0.19	2.34	112	0.7
40203780	0.18	5.97	25.7	6.45	104.0	4.39	1.4	372	0.6	0.43	8.42	0.17	4.51	130	1.3
40203781	0.21	4.64	26.9	6.21	81.2	5.55	2.3	583	0.4	0.51	4.14	0.23	1.32	135	0.5
40203782	0.16	4.95	37.8	8.59	65.7	7.25	3.2	470	0.3	0.56	4.41	0.16	1.24	139	0.6
40203783	0.16	4.74	35.0	7.95	61.7	6.86	2.7	401	0.4	0.54	3.89	0.16	1.13	138	1.0
40203784	0.21	6.48	12.4	2.67	36.1	2.96	2.0	362	0.5	0.48	1.10	0.24	0.36	182	0.7
40203785	0.15	5.64	24.3	5.96	74.6	4.52	1.2	513	0.5	0.42	6.23	0.17	1.72	122	0.8
40203786	0.60	11.45	40.3	8.60	98.0	10.15	2.1	470	0.9	1.46	3.18	0.68	1.80	235	0.7
40203787	0.20	6.30	24.4	6.01	104.0	4.22	1.4	369	0.6	0.49	8.22	0.21	2.41	117	0.7
40203788	0.17	5.69	18.9	4.58	142.0	3.65	2.3	293	0.7	0.38	5.55	0.18	12.95	110	0.9
40203789	0.08	5.56	5.4	1.33	88.4	1.36	1.8	314	0.7	0.24	1.77	0.09	6.83	25	0.5

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
1300 WALSH ST. W  
THUNDER BAY ON P7E 4X4

Page: 2 - D  
Total # Pages: 5 (A - I)  
Plus Appendix Pages  
Finalized Date: 17-NOV-2022  
Account: RTECILHR

Project: EB80003529

CERTIFICATE OF ANALYSIS TB22269677

Table with columns: Sample Description, Method Analyte Units LOD, and 16 chemical elements (Y, Yb, Zr, As, Bi, Hg, In, Re, Sb, Se, Te, Tl, Ag, Al, As). Rows list sample IDs and their corresponding concentrations in ppm.

\*\*\*\* 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  
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Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD															
	ME-MS61L Ba	ME-MS61L Be	ME-MS61L Bi	ME-MS61L Ca	ME-MS61L Cd	ME-MS61L Ce	ME-MS61L Co	ME-MS61L Cr	ME-MS61L Cs	ME-MS61L Cu	ME-MS61L Fe	ME-MS61L Ga	ME-MS61L Ge	ME-MS61L Hf	ME-MS61L In	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002	0.05	0.05	0.004	0.005	
40203750	540	2.02	0.041	5.40	0.127	61.9	37.6	55.6	1.50	40.3	8.45	25.8	0.17	1.625	0.096	
40203751	620	1.26	0.234	1.69	0.108	55.1	20.4	111.0	4.14	59.1	5.34	19.70	0.12	2.78	0.035	
40203752	570	1.27	0.109	1.52	0.075	60.0	20.1	110.0	5.28	100.5	5.46	19.80	0.13	3.07	0.035	
40203753	328	1.32	3.93	1.53	0.411	59.0	75.8	123.0	2.43	8670	6.60	24.3	0.15	3.80	0.105	
40203754	560	2.16	0.028	5.14	0.131	64.7	34.8	49.4	1.54	43.1	7.92	26.3	0.18	2.08	0.107	
40203755	610	0.98	0.270	1.02	0.079	25.4	6.39	21.2	1.89	1350	1.040	16.65	0.13	5.40	0.019	
40203756	630	0.95	0.190	0.85	0.085	26.4	5.90	15.2	1.92	690	0.900	15.75	0.13	6.01	0.015	
40203757	670	0.70	0.061	0.44	0.010	24.5	1.310	14.4	1.68	22.0	0.620	13.70	0.13	1.240	<0.005	
40203758	158	0.58	0.424	6.45	0.444	25.3	100.0	1575	2.78	3960	9.89	22.3	0.16	2.53	0.081	
40203759	500	2.39	0.023	5.15	0.101	66.5	30.5	43.2	1.36	38.6	7.26	26.7	0.16	2.23	0.080	
40203760	690	1.60	0.071	1.63	0.033	41.1	6.79	32.8	2.67	10.50	1.830	23.6	0.10	2.85	0.022	
40203761	610	1.91	0.050	1.68	0.070	37.8	7.52	32.3	1.41	12.80	1.970	22.5	0.13	2.86	0.017	
40203762	660	2.41	0.052	3.54	0.155	126.5	35.0	2.9	0.63	20.4	8.69	25.3	0.34	8.96	0.093	
40203763	150	0.57	0.705	6.28	0.421	22.6	96.8	1550	2.35	3810	9.56	20.5	0.24	2.27	0.064	
40203764	720	2.43	0.034	3.57	0.046	125.5	33.2	3.6	0.71	14.40	8.75	25.9	0.33	8.94	0.078	
40203765	720	2.39	0.036	3.55	0.044	125.5	33.6	3.8	0.73	14.40	8.78	26.0	0.33	8.85	0.088	
40203766	1120	2.42	0.036	3.53	0.063	126.0	34.1	2.6	0.95	7.91	8.88	26.3	0.35	8.89	0.089	
40203767	600	2.25	0.083	3.21	0.075	115.5	29.9	15.0	0.92	25.2	7.96	24.6	0.31	7.95	0.080	
40203768	550	1.90	0.034	5.05	0.101	55.6	34.3	48.1	1.47	36.8	7.66	23.8	0.25	1.755	0.089	
40203769	500	1.29	0.238	2.09	0.060	45.8	25.6	130.0	2.86	53.9	4.95	19.75	0.18	2.89	0.036	
40203770	690	1.40	0.145	2.08	0.054	49.2	21.4	132.5	2.95	44.6	4.08	19.30	0.19	2.80	0.033	
40203771	530	1.46	0.173	1.91	0.076	45.9	21.6	155.0	3.18	43.5	4.22	19.95	0.19	2.78	0.035	
40203772	470	1.32	0.162	2.52	0.174	43.0	28.1	312	1.41	42.0	5.11	18.65	0.20	2.77	0.024	
40203773	570	2.34	0.041	3.60	0.061	129.5	34.1	4.5	0.60	17.55	8.66	25.5	0.34	8.88	0.084	
40203774	730	2.43	0.034	3.45	0.057	125.5	33.8	3.7	0.83	14.15	8.89	25.7	0.34	8.86	0.087	
40203775	710	2.33	0.033	3.32	0.060	121.0	33.0	3.0	0.82	12.45	8.45	24.4	0.34	8.53	0.092	
40203776	610	2.27	0.041	3.82	0.127	125.0	33.2	2.2	0.80	13.30	8.52	25.4	0.33	8.91	0.087	
40203777	540	1.04	0.152	2.12	0.150	45.4	28.4	152.5	2.79	62.6	5.35	19.85	0.21	2.79	0.044	
40203778	500	1.18	0.191	2.51	0.155	53.4	22.9	116.0	2.63	45.9	4.74	18.25	0.18	2.78	0.031	
40203779	550	1.26	0.143	2.09	0.082	44.8	20.7	101.5	3.51	41.7	4.45	19.90	0.19	2.80	0.036	
40203780	610	1.30	0.383	2.02	0.103	58.0	32.9	124.0	5.67	909	5.23	21.3	0.23	3.18	0.028	
40203781	580	1.20	3.96	4.38	0.822	52.2	71.4	321	4.69	4480	6.47	18.00	0.24	2.61	0.062	
40203782	510	1.12	8.84	5.00	1.855	73.8	99.6	484	3.38	>10000	8.91	15.10	0.31	2.82	0.093	
40203783	480	1.02	7.17	5.16	1.575	70.0	132.0	550	3.39	8600	9.37	14.15	0.31	2.58	0.088	
40203784	204	0.56	0.796	6.38	0.651	25.4	181.5	406	3.22	8240	11.30	18.70	0.18	2.25	0.101	
40203785	670	1.23	0.749	3.46	0.277	57.9	41.2	248	3.88	1355	5.65	18.90	0.18	3.15	0.033	
40203786	540	2.37	0.042	5.62	0.127	63.3	36.0	44.9	1.59	52.7	8.07	28.0	0.27	2.37	0.098	
40203787	660	1.31	0.116	2.04	0.087	58.8	22.2	107.0	5.73	87.3	4.81	20.5	0.19	3.11	0.037	
40203788	470	2.00	0.121	1.89	0.062	46.8	20.3	87.8	7.77	115.5	4.73	20.4	0.20	2.41	0.035	
40203789	570	2.57	0.104	1.59	0.045	10.15	6.09	69.2	3.53	6.21	1.560	20.4	0.13	1.405	0.018	



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - F  
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 Plus Appendix Pages  
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Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD		ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm
40203750	1.51	23.4	19.4	2.62	1170	1.12	2.54	10.05	54.1	0.207	8.72	71.9	0.0013	0.15	0.11
40203751	1.67	26.1	47.7	1.48	686	2.12	2.56	6.15	57.9	0.065	14.70	69.2	0.0009	0.24	0.08
40203752	1.84	29.1	55.4	1.39	623	1.76	2.90	6.65	57.4	0.055	18.55	82.9	0.0013	0.20	0.05
40203753	1.38	26.7	40.2	1.41	444	2.72	2.54	7.18	988	0.070	25.8	65.1	0.0089	1.44	0.13
40203754	1.68	25.1	17.3	2.38	1070	1.17	2.46	11.75	45.7	0.186	9.34	84.4	0.0014	0.16	0.05
40203755	4.76	10.25	5.4	0.16	106.0	1.62	2.81	2.37	130.5	0.078	47.0	120.5	0.0007	0.17	0.12
40203756	4.84	10.95	4.3	0.13	98.9	1.46	2.82	2.45	106.5	0.054	46.7	122.5	0.0006	0.10	0.15
40203757	5.07	10.70	4.8	0.12	78.2	1.51	2.13	2.22	19.05	0.007	50.7	125.0	<0.0004	0.01	0.03
40203758	0.49	10.20	28.8	4.39	1035	5.05	1.550	8.11	1925	0.063	8.09	16.15	0.0085	0.89	0.41
40203759	1.54	26.1	18.0	2.13	986	1.17	2.78	11.95	38.0	0.162	9.23	79.4	0.0012	0.17	0.06
40203760	2.15	18.40	28.3	0.67	277	0.92	3.41	4.36	14.15	0.044	23.0	75.7	<0.0004	0.06	0.03
40203761	1.59	18.10	23.3	0.75	341	0.87	3.55	4.25	15.30	0.050	18.35	59.9	<0.0004	0.05	0.03
40203762	1.60	57.7	45.5	1.78	1055	2.12	2.96	40.2	3.06	0.229	6.31	58.3	0.0007	0.13	0.09
40203763	0.48	9.82	27.8	4.26	1010	4.74	1.490	7.58	1865	0.063	7.52	14.00	0.0072	0.87	0.41
40203764	2.22	57.1	37.2	1.85	1115	2.06	2.84	39.6	3.45	0.230	6.55	72.0	0.0005	0.14	0.10
40203765	2.21	57.1	37.2	1.84	1100	2.14	2.81	39.8	3.15	0.228	6.71	72.4	0.0006	0.15	0.10
40203766	2.30	57.2	46.7	1.87	1095	2.05	2.61	39.9	2.90	0.229	7.22	82.1	0.0005	0.15	0.10
40203767	1.50	53.1	48.4	1.72	969	2.08	3.01	34.2	8.64	0.200	7.51	53.6	0.0006	0.17	0.08
40203768	1.51	23.7	13.5	2.35	1080	1.14	2.45	11.05	48.4	0.192	8.02	78.1	0.0009	0.15	0.06
40203769	1.62	22.6	48.7	1.74	805	2.17	2.44	5.76	69.7	0.058	9.36	73.4	0.0008	0.34	0.07
40203770	2.09	24.7	44.5	1.68	605	1.73	2.48	5.73	67.0	0.058	14.50	80.7	0.0005	0.23	0.08
40203771	1.72	22.4	44.4	1.71	619	1.89	2.66	6.68	75.9	0.058	16.45	70.5	0.0007	0.18	0.06
40203772	1.27	20.2	52.6	2.87	1070	1.58	2.23	5.47	108.5	0.074	15.75	37.3	0.0005	0.14	0.09
40203773	1.76	59.6	38.0	1.84	1045	2.30	3.05	39.8	6.19	0.230	5.37	57.5	<0.0004	0.14	0.09
40203774	2.25	56.8	40.1	1.89	1055	2.15	2.75	39.4	3.26	0.226	6.28	73.3	0.0005	0.13	0.08
40203775	2.15	55.0	38.0	1.83	1015	2.10	2.58	37.5	3.07	0.218	5.98	70.4	0.0004	0.12	0.07
40203776	1.51	56.9	44.6	1.70	1035	2.04	2.80	39.2	2.68	0.223	5.59	54.8	0.0004	0.14	0.08
40203777	1.76	22.2	49.4	1.97	908	1.56	2.40	5.94	81.2	0.060	16.60	76.8	0.0005	0.35	0.07
40203778	1.57	26.0	40.6	1.74	772	1.56	2.28	5.98	62.4	0.070	17.50	63.8	0.0016	0.30	0.07
40203779	1.61	21.5	42.8	1.48	575	1.89	2.46	6.31	60.6	0.072	14.15	57.8	0.0011	0.17	0.03
40203780	2.13	29.0	47.6	1.71	577	3.18	2.59	6.63	478	0.058	18.95	92.1	0.0017	0.55	0.02
40203781	1.68	24.3	33.2	3.94	852	1.02	1.635	4.94	1600	0.127	16.00	57.7	0.0009	0.92	0.04
40203782	1.46	31.7	31.1	5.76	1140	1.06	1.185	5.40	2460	0.146	13.55	62.6	0.0034	1.85	0.04
40203783	1.45	29.9	31.4	6.10	1205	0.83	1.075	5.24	3650	0.134	12.60	61.5	0.0037	1.91	0.05
40203784	0.72	10.90	45.2	3.54	941	8.89	1.330	7.36	4000	0.061	10.85	33.8	0.0221	2.55	0.77
40203785	1.85	28.3	38.4	2.92	754	1.24	2.00	6.42	429	0.081	15.65	68.0	0.0011	0.48	0.02
40203786	1.55	25.6	17.3	2.63	1135	1.20	2.61	13.20	51.0	0.182	8.37	74.4	0.0011	0.18	0.06
40203787	2.10	30.2	50.2	1.54	652	1.77	2.89	7.17	65.2	0.067	16.40	94.3	0.0006	0.20	0.02
40203788	2.44	22.5	45.9	1.42	567	2.06	2.49	6.41	55.6	0.064	26.0	135.0	<0.0004	0.17	0.02
40203789	2.30	4.46	27.1	0.74	294	0.84	3.34	6.14	31.6	0.053	23.3	84.8	<0.0004	0.04	0.05

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



Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1	0.008	0.01	0.2	0.1
40203750		26.1	0.134	1.64	500	0.49	0.016	2.60	1.035	0.344	1.10	202	0.263	43.1	132.0	51.4
40203751		13.05	0.189	0.95	333	0.46	0.043	7.53	0.288	0.441	2.34	95.5	0.348	13.40	78.4	104.0
40203752		13.50	0.170	1.03	338	0.46	0.036	8.13	0.293	0.572	2.35	93.7	0.385	12.10	79.2	116.5
40203753		12.10	2.98	2.91	275	0.43	0.313	11.55	0.208	0.553	7.82	83.6	0.366	13.95	120.5	128.0
40203754		26.3	0.130	1.72	503	0.56	0.019	4.15	0.924	0.393	1.31	185.0	0.256	42.6	129.0	71.3
40203755		1.72	0.188	0.81	239	0.26	0.021	7.94	0.026	0.725	7.32	5.3	0.162	12.30	26.6	157.5
40203756		1.44	0.122	0.61	237	0.24	0.017	8.61	0.024	0.745	6.20	3.8	0.159	9.63	31.1	171.5
40203757		1.36	0.023	0.65	226	0.14	<0.005	8.58	0.024	0.728	3.16	2.7	0.154	1.36	10.2	35.9
40203758		18.50	3.11	2.30	352	0.46	0.215	1.095	0.745	0.332	0.27	161.0	0.289	18.95	118.0	98.0
40203759		22.9	0.120	1.53	546	0.64	0.021	3.32	0.834	0.371	1.40	177.5	0.252	38.5	115.0	79.7
40203760		4.90	0.014	1.68	567	0.33	<0.005	5.69	0.142	0.484	2.59	30.2	0.270	5.25	48.6	104.0
40203761		5.13	0.020	1.83	634	0.44	<0.005	5.03	0.170	0.300	2.97	34.2	0.335	5.79	70.9	109.0
40203762		15.30	0.056	2.21	689	2.34	0.016	6.41	1.335	0.244	1.43	148.5	0.768	38.0	175.5	357
40203763		18.55	3.10	2.18	340	0.43	0.217	1.015	0.729	0.306	0.24	157.0	0.308	17.85	111.5	93.9
40203764		15.70	0.055	2.03	659	2.33	0.015	6.33	1.400	0.297	1.37	156.0	0.676	37.2	111.5	358
40203765		15.80	0.073	2.02	651	2.34	0.016	6.35	1.385	0.299	1.37	155.0	0.674	37.5	114.0	357
40203766		16.00	0.049	2.01	743	2.36	0.015	6.42	1.390	0.338	1.37	159.5	0.717	37.7	115.5	359
40203767		14.50	0.077	1.92	539	2.03	0.018	6.39	1.190	0.231	1.69	139.0	0.889	32.8	125.0	319
40203768		24.0	0.128	1.46	497	0.58	0.016	3.14	0.943	0.316	1.08	179.5	0.294	39.3	118.5	61.1
40203769		16.60	0.233	1.01	452	0.44	0.044	6.26	0.342	0.359	1.98	120.5	0.518	12.90	89.6	115.0
40203770		13.60	0.141	0.99	396	0.40	0.030	7.75	0.298	0.429	2.41	98.5	0.561	11.40	76.8	108.5
40203771		14.05	0.139	1.25	394	0.50	0.031	7.33	0.306	0.384	2.99	97.3	0.638	11.25	80.5	108.0
40203772		17.50	0.122	0.98	451	0.36	0.023	5.60	0.338	0.233	1.56	117.0	0.412	11.65	125.0	111.5
40203773		15.25	0.041	2.23	601	2.39	0.017	6.42	1.360	0.242	1.42	149.5	0.758	37.6	115.0	358
40203774		15.90	0.058	2.07	691	2.32	0.013	6.32	1.400	0.300	1.33	159.0	0.681	36.9	108.0	356
40203775		14.95	0.043	1.93	654	2.20	0.013	6.06	1.320	0.292	1.28	151.5	0.661	35.3	106.0	342
40203776		15.15	0.051	2.21	749	2.33	0.015	6.31	1.335	0.234	1.44	150.5	0.737	36.5	156.0	348
40203777		18.90	0.257	0.97	486	0.40	0.042	5.56	0.371	0.389	1.53	130.5	0.513	14.10	107.0	113.0
40203778		15.20	0.181	1.14	428	0.40	0.046	7.13	0.346	0.370	2.41	112.5	0.553	13.10	111.5	109.5
40203779		13.85	0.118	1.05	327	0.49	0.028	6.63	0.309	0.379	2.13	101.0	0.375	12.10	78.3	110.0
40203780		16.30	1.120	1.29	383	0.47	0.114	8.12	0.340	0.569	3.94	110.5	0.514	10.30	81.9	126.0
40203781		19.05	2.87	2.00	608	0.30	0.527	3.96	0.351	0.544	1.22	117.5	0.284	14.60	101.0	104.0
40203782		21.1	6.34	2.94	508	0.26	1.105	4.94	0.332	0.487	1.21	121.5	0.310	12.60	123.5	112.0
40203783		19.85	7.03	2.99	438	0.26	0.717	4.16	0.329	0.498	1.11	119.0	0.296	12.10	120.0	106.0
40203784		17.40	6.69	2.02	389	0.44	0.398	1.200	0.745	1.055	0.40	153.5	0.513	16.65	114.0	88.3
40203785		15.60	0.704	1.03	562	0.42	0.077	6.55	0.359	0.421	1.76	111.0	0.404	12.15	87.1	128.5
40203786		29.4	0.128	1.83	518	0.77	0.023	3.03	0.914	0.394	1.44	204	0.306	47.1	131.5	87.6
40203787		14.50	0.165	1.12	403	0.51	0.035	8.40	0.351	0.569	2.28	106.5	0.477	12.00	84.0	124.5
40203788		14.20	0.146	2.13	297	0.61	0.030	6.32	0.275	0.766	9.53	97.5	0.524	10.90	72.7	89.1
40203789		3.93	0.012	1.64	318	0.56	0.005	1.930	0.090	0.442	6.60	19.5	0.247	7.21	45.9	41.7



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

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 2 - H  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb	Al2O3 %	As %	CaO %	Co %	Cr2O3 %	Cu %	Fe2O3 %	K2O %	MgO %
40203750	0.0023	0.004	0.015	1	<0.1	<0.2		0.02	0.01	0.07	0.002	0.01	0.002	0.07	0.06	0.02
40203751	0.0045	0.006	0.007	<1	0.7	1.0										
40203752	0.0036	0.005	0.004	<1	1.0	0.9										
40203753	0.0202	0.013	0.040	19	14.7	60.5										
40203754	0.0024	<0.004	<0.002	<1	<0.1	<0.2										
40203755	0.0064	0.005	0.012	<1	<0.1	3.4										
40203756	0.0093	0.004	0.013	<1	<0.1	0.7										
40203757	0.0021	<0.004	0.006	<1	<0.1	<0.2										
40203758	0.0769	0.086	0.767	70	131.0	821										
40203759	0.0035	0.005	0.010	<1	<0.1	<0.2										
40203760	0.0044	0.004	0.011	<1	<0.1	<0.2										
40203761	0.0029	<0.004	<0.002	<1	<0.1	<0.2										
40203762	0.0110	0.010	<0.002	<1	<0.1	<0.2										
40203763	0.0865	0.057	0.803	72	151.5	772										
40203764	0.0097	0.008	<0.002	<1	<0.1	<0.2										
40203765	0.0098	0.010	<0.002	<1	<0.1	<0.2										
40203766	0.0094	0.011	<0.002	<1	<0.1	<0.2										
40203767	0.0087	0.006	<0.002	<1	<0.1	<0.2										
40203768	0.0023	0.005	<0.002	<1	<0.1	<0.2										
40203769	0.0046	0.006	<0.002	<1	1.5	1.4										
40203770	0.0034	0.005	<0.002	<1	1.2	1.0										
40203771	0.0038	0.006	<0.002	1	1.6	2.4										
40203772	0.0036	0.006	<0.002	<1	2.5	3.2										
40203773	0.0102	0.010	<0.002	<1	<0.1	<0.2										
40203774	0.0111	0.011	<0.002	<1	<0.1	<0.2										
40203775	0.0108	0.008	<0.002	<1	<0.1	<0.2										
40203776	0.0117	0.006	<0.002	<1	<0.1	<0.2										
40203777	0.0046	0.006	<0.002	<1	1.9	1.7										
40203778	0.0040	0.004	<0.002	<1	1.3	1.0										
40203779	0.0042	0.004	<0.002	<1	1.2	1.0										
40203780	0.0062	0.008	0.010	1	6.3	4.1										
40203781	0.0529	0.004	<0.002	72	3.1	7.0										
40203782	0.0665	0.005	<0.002	258	3.9	9.6	11.20	<0.01	7.44	0.010	0.11	1.135	12.75	1.75	9.76	
40203783	0.0922	0.007	0.010	466	3.1	9.1										
40203784	0.1125	0.136	1.315	179	355	>1000										
40203785	0.0132	0.009	0.002	10	1.9	2.0										
40203786	0.0034	<0.004	<0.002	<1	<0.1	<0.2										
40203787	0.0040	0.004	<0.002	<1	1.1	0.9										
40203788	0.0036	<0.004	<0.002	<1	1.2	0.8										
40203789	0.0012	<0.004	<0.002	<1	<0.1	<0.2										

\*\*\*\*\* 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/geochemistry

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 THUNDER BAY ON P7E 4X4

Page: 2 - 1  
 Total # Pages: 5 (A - I)  
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 Finalized Date: 17-NOV-2022  
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Project: EB80003529

CERTIFICATE OF ANALYSIS TB22269677
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Sample Description	Method	Analyte	Units	LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24
					MnO	Ni	Pb	S	SiO2	TiO2	Zn	Au	Pt	Pd
					%	%	%	%	%	%	%	ppm	ppm	ppm
40203750				0.01		0.002	0.01	0.01	0.2	0.02	0.002	0.001	0.005	0.001
40203751														
40203752														
40203753														
40203754														
40203755														
40203756														
40203757														
40203758														
40203759														
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40203768														
40203769														
40203770														
40203771														
40203772														
40203773														
40203774														
40203775														
40203776														
40203777														
40203778														
40203779														
40203780														
40203781														
40203782				0.17	0.254	<0.01	2.00	49.6	0.57	0.012	0.174	<0.005	0.006	
40203783														
40203784											0.162	0.328	1.620	
40203785														
40203786														
40203787														
40203788														
40203789														

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 3 - A  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
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**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	
40203790		1.13	64.5	14.25	6.23	3.49	4.12	3.51	2.51	0.039	0.55	0.09	0.20	0.06	0.09	1.37	
40203791		0.55	62.7	16.15	6.52	3.69	3.24	3.65	2.47	0.022	0.62	0.09	0.18	0.06	0.07	2.21	
40203792		0.46	63.8	15.95	6.22	3.33	3.38	3.50	2.56	0.026	0.59	0.08	0.17	0.06	0.08	1.91	
40203793		1.90	65.5	14.95	5.40	3.14	2.50	3.66	2.04	0.017	0.49	0.08	0.14	0.06	0.07	1.53	
40203794		1.88	63.6	16.55	6.66	3.23	3.12	4.01	2.45	0.021	0.57	0.09	0.15	0.05	0.07	1.23	
40203795		1.92	48.9	8.10	9.67	12.40	14.90	1.34	0.67	0.076	0.74	0.15	0.13	0.05	0.03	1.81	
40203796		0.97	49.6	7.80	9.34	11.85	15.35	1.38	0.71	0.069	0.56	0.15	0.19	0.04	0.03	1.95	
40203797		0.95	49.8	7.76	9.45	11.90	15.55	1.35	0.70	0.069	0.56	0.15	0.19	0.04	0.03	2.17	
40203798		2.04	51.5	7.60	8.72	11.35	15.35	1.36	0.92	0.089	0.43	0.14	0.20	0.03	0.03	1.65	
40203799		1.89	62.1	15.10	9.01	3.26	3.26	3.81	2.36	0.021	0.60	0.10	0.20	0.06	0.08	0.66	
40203800		1.34	53.1	17.00	11.20	7.23	4.46	3.47	1.96	0.009	1.62	0.15	0.46	0.05	0.07	0.47	
40203801		2.01	52.2	13.60	9.57	8.06	7.82	2.71	1.96	0.043	1.04	0.14	0.71	0.17	0.14	1.14	
40203802		1.61	52.4	17.10	10.95	6.64	5.04	3.11	2.48	0.033	0.65	0.13	0.11	0.08	0.06	2.06	
40203803		3.06	53.2	8.81	9.85	10.20	12.60	1.76	0.89	0.087	0.58	0.14	0.10	0.03	0.02	1.55	
40203804		3.17	50.3	8.57	10.90	11.30	13.55	1.56	0.84	0.087	0.62	0.15	0.10	0.04	0.02	1.75	
40203805		2.64	49.5	7.96	10.45	12.40	13.60	1.42	0.67	0.064	0.60	0.16	0.10	0.04	0.02	1.67	
40203806		2.14	49.4	8.97	10.60	11.15	12.95	1.62	0.90	0.078	0.65	0.15	0.10	0.04	0.02	5.16	
40203807		1.83	63.7	18.55	2.34	2.56	1.24	5.72	4.71	0.004	0.17	0.03	0.60	0.06	0.06	1.24	
40203808		1.73	57.7	18.80	5.15	3.21	3.17	5.46	4.25	0.016	0.44	0.08	0.96	0.05	0.03	1.36	
40203809		0.78	53.7	7.49	9.26	9.48	14.35	1.26	1.23	0.125	0.46	0.18	0.11	0.02	0.01	1.76	
40203810		0.71	54.2	7.97	9.22	9.03	13.80	1.40	1.40	0.122	0.48	0.18	0.13	0.02	0.01	1.66	
40203811		2.13	50.3	6.52	9.97	12.30	17.20	0.94	0.48	0.150	0.52	0.16	0.12	0.03	0.01	1.88	
40203812		1.97	50.2	6.40	9.92	11.85	16.90	0.97	0.57	0.159	0.51	0.16	0.14	0.02	0.01	1.66	
40203813		1.08	65.3	14.45	5.41	3.67	3.47	4.13	1.96	0.017	0.51	0.06	0.34	0.09	0.04	1.07	
40203814		2.39	48.6	7.53	10.25	11.25	16.95	0.89	1.10	0.175	0.56	0.16	0.22	0.03	0.03	1.56	
40203815		2.09	52.7	8.26	8.99	9.54	14.70	1.34	1.42	0.153	0.42	0.16	0.20	0.03	0.03	1.48	
40203816		0.93	49.3	7.28	10.75	11.35	17.05	0.93	1.00	0.173	0.47	0.19	0.22	0.02	0.02	2.07	
40203817		2.47	49.4	7.36	10.40	11.45	17.30	0.90	0.88	0.182	0.49	0.16	0.23	0.04	0.02	2.05	
40203818		1.48	48.4	7.31	10.85	11.20	17.55	0.77	1.22	0.184	0.52	0.17	0.21	0.04	0.03	1.81	
40203819		1.76	65.5	17.40	4.23	2.52	1.84	6.10	2.03	0.019	0.27	0.05	0.19	0.05	0.02	1.27	
40203820		0.12	38.5	5.83	16.10	3.90	24.1	0.70	0.24	0.277	0.44	0.15	0.05	0.01	0.01	8.99	
40203821		2.56	64.8	19.65	1.46	3.17	0.58	7.37	1.28	0.004	0.10	0.02	0.11	0.05	0.01	0.84	
40203822		2.42	47.3	7.45	10.95	11.45	17.40	0.72	1.18	0.188	0.53	0.18	0.19	0.03	0.02	2.21	
40203823		2.39	48.1	7.26	10.25	11.35	16.95	0.82	0.83	0.178	0.51	0.16	0.17	0.04	0.02	1.82	
40203824		0.91	54.1	9.97	8.69	7.74	11.05	2.04	2.02	0.123	0.42	0.15	0.17	0.02	0.02	3.70	
40203825		1.78	74.1	13.15	2.19	0.93	0.52	3.44	5.45	0.005	0.11	0.02	0.03	0.03	0.08	1.75	
40203826		0.62	52.6	18.20	10.40	7.58	4.04	3.69	1.88	0.009	1.39	0.15	0.38	0.06	0.06	0.50	
40203827		1.96	62.9	15.90	8.21	2.93	2.98	3.23	2.52	0.019	0.58	0.09	0.14	0.04	0.08	1.68	
40203828		1.22	41.5	10.50	20.7	6.06	7.57	1.30	1.50	0.077	0.49	0.15	0.21	0.06	0.05	5.45	
40203829		0.69	55.2	15.95	11.05	6.84	4.21	3.22	2.16	0.008	1.73	0.16	0.49	0.05	0.06	0.27	

\*\*\*\*\* 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/geochemistry

To: RIO TINTO EXPLORATION CANADA INC.  
 1300 WALSH ST. W  
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Page: 3 - B  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
	Analyte	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	
	Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	LOD	0.01	0.01	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1
40203790		101.01	0.08	0.26	698	53.8	295	5.89	2.07	1.26	1.17	19.0	3.36	3.23	0.44	25.8
40203791		101.67	0.25	0.26	573	51.0	163	5.70	2.33	1.34	1.26	19.8	3.37	3.58	0.50	24.2
40203792		101.66	0.17	0.21	654	48.0	201	5.33	2.27	1.22	1.12	19.2	3.17	3.62	0.43	23.5
40203793		99.58	0.12	0.23	622	48.5	139	3.86	2.05	1.08	1.02	18.2	2.97	3.15	0.37	24.5
40203794		101.80	0.07	0.21	558	48.3	169	3.76	2.15	1.33	1.08	18.8	2.98	3.07	0.49	23.7
40203795		98.97	0.08	0.12	262	39.2	603	0.34	2.79	1.13	1.78	11.0	4.77	1.70	0.46	15.0
40203796		99.02	0.08	0.20	260	55.8	546	0.70	2.82	1.14	1.80	12.0	4.97	2.17	0.49	22.1
40203797		99.72	0.09	0.26	295	55.8	543	0.74	2.70	1.04	1.87	11.8	4.90	2.07	0.41	21.8
40203798		99.37	0.05	0.32	281	57.5	684	2.05	2.34	1.36	1.61	12.2	5.32	1.62	0.49	23.3
40203799		100.62	0.03	0.20	670	83.5	167	5.01	3.05	1.52	1.57	19.6	3.99	4.38	0.56	42.4
40203800		101.25	0.08	0.13	550	67.4	73	1.68	8.38	4.51	2.18	25.0	8.96	5.88	1.52	27.9
40203801		99.30	0.04	0.47	1170	226	325	2.02	4.73	1.79	4.11	18.2	9.80	4.58	0.71	103.5
40203802		100.84	0.09	0.75	492	34.3	264	3.39	2.81	1.56	1.42	22.4	2.79	1.92	0.51	17.5
40203803		99.82	0.07	0.30	182.5	38.3	695	0.81	2.44	1.20	1.19	13.0	3.26	1.82	0.42	16.2
40203804		99.79	0.08	0.46	208	40.5	678	1.29	2.39	1.11	1.31	12.8	3.87	1.71	0.40	16.2
40203805		98.65	0.09	0.35	168.0	32.2	512	0.11	2.36	1.05	1.30	11.1	3.54	1.63	0.41	12.8
40203806		101.79	0.10	0.30	200	40.2	629	0.71	2.50	1.13	1.29	14.2	4.25	1.86	0.46	15.8
40203807		100.98	0.07	0.08	542	24.8	36	3.84	6.73	2.69	0.66	25.9	6.51	0.86	1.10	9.6
40203808		100.68	0.04	0.09	312	34.2	138	14.20	9.99	4.46	0.72	33.9	10.55	0.38	1.68	12.4
40203809		99.44	0.04	0.17	106.5	37.4	998	4.03	3.04	1.32	1.24	13.6	4.22	1.42	0.48	12.8
40203810		99.62	0.04	0.15	116.0	35.3	956	5.38	3.00	1.33	1.04	14.8	4.53	1.64	0.51	12.6
40203811		100.58	0.05	0.34	90.5	45.6	1145	0.30	2.41	1.12	1.47	10.0	4.01	1.52	0.43	18.2
40203812		99.47	0.04	0.19	108.0	44.4	1270	0.77	2.66	0.93	1.73	11.1	4.45	1.41	0.42	17.4
40203813		100.52	0.04	0.66	388	102.5	141	5.92	2.92	1.44	1.46	20.5	4.87	2.87	0.53	48.7
40203814		99.31	0.04	0.19	294	64.0	1390	3.41	2.85	1.39	1.85	11.2	4.79	1.92	0.48	25.3
40203815		99.42	0.05	0.12	262	54.1	1200	5.61	3.20	1.22	1.57	14.0	4.79	2.06	0.54	21.9
40203816		100.82	0.09	0.18	180.5	73.7	1370	3.26	2.81	1.40	1.57	13.4	5.35	1.90	0.51	33.3
40203817		100.86	0.05	0.35	218	63.0	1435	2.87	2.55	1.23	1.59	10.6	4.57	1.90	0.47	25.3
40203818		100.26	0.05	0.32	239	55.9	1430	4.46	3.13	1.30	1.71	11.0	4.64	1.80	0.49	21.2
40203819		101.49	0.12	0.19	218	54.1	153	4.69	2.83	1.06	0.58	25.7	4.34	7.09	0.39	25.4
40203820		99.30	0.14	2.41	94.3	10.9	2100	0.86	1.55	0.79	0.42	7.9	1.38	0.96	0.24	5.2
40203821		99.44	0.07	0.05	134.0	62.9	36	1.43	1.74	0.79	0.64	25.0	3.78	11.00	0.33	29.5
40203822		99.80	0.10	0.28	197.0	60.2	1500	3.50	3.02	1.30	1.68	11.6	4.84	2.25	0.52	23.3
40203823		98.46	0.07	0.19	178.5	54.1	1380	2.14	2.49	0.96	1.65	10.8	4.36	1.90	0.50	21.2
40203824		100.21	0.56	0.15	136.0	61.5	978	8.01	3.23	1.26	0.95	16.5	5.16	3.16	0.53	28.9
40203825		101.81	0.08	0.11	638	68.6	36	1.56	1.48	0.41	0.48	15.2	3.26	6.09	0.19	31.8
40203826		100.94	0.07	0.16	534	94.3	54	2.99	10.80	6.55	2.08	27.0	11.65	11.15	2.23	40.3
40203827		101.30	0.15	0.13	684	62.0	153	4.71	3.05	1.45	1.06	21.4	3.80	3.28	0.51	30.3
40203828		95.62	0.37	6.90	220	27.6	285	2.63	1.14	0.58	0.59	7.0	1.64	1.10	0.19	12.5
40203829		101.40	0.09	0.12	524	65.5	65	1.14	8.41	4.81	2.08	22.4	8.14	5.95	1.72	28.3

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - H  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb	Al2O3 %	As %	CaO %	Co %	Cr2O3 %	Cu %	Fe2O3 %	K2O %	MgO %
40203790		0.0036	0.005	<0.002	<1	1.2	0.9									
40203791		0.0035	<0.004	<0.002	<1	1.0	0.8									
40203792		0.0031	0.005	<0.002	<1	1.1	0.8									
40203793		0.0037	0.005	0.002	1	0.5	0.7									
40203794		0.0029	0.006	<0.002	<1	1.2	0.9									
40203795		0.0022	<0.004	<0.002	<1	<0.1	<0.2									
40203796		0.0024	0.004	<0.002	<1	0.7	0.7									
40203797		0.0027	0.005	<0.002	1	1.1	0.8									
40203798		0.0039	<0.004	0.002	<1	1.3	1.0									
40203799		0.0043	0.004	<0.002	<1	1.2	1.0									
40203800		0.0024	<0.004	<0.002	<1	<0.1	<0.2									
40203801		0.0048	0.004	<0.002	<1	0.3	0.5									
40203802		0.0040	0.005	0.005	1	2.6	2.7									
40203803		0.0018	<0.004	<0.002	<1	<0.1	<0.2									
40203804		0.0015	0.005	<0.002	<1	0.2	<0.2									
40203805		0.0019	<0.004	<0.002	<1	<0.1	<0.2									
40203806		0.0015	0.004	<0.002	<1	<0.1	<0.2									
40203807		<0.0004	<0.004	<0.002	2	<0.1	<0.2									
40203808		0.0018	<0.004	<0.002	<1	<0.1	<0.2									
40203809		0.0037	0.004	<0.002	<1	<0.1	<0.2									
40203810		0.0038	<0.004	<0.002	8	<0.1	<0.2									
40203811		0.0022	0.004	<0.002	<1	<0.1	<0.2									
40203812		0.0016	0.004	<0.002	<1	0.1	<0.2									
40203813		0.0040	<0.004	0.017	1	<0.1	<0.2									
40203814		0.0032	0.005	<0.002	2	0.3	0.2									
40203815		0.0028	<0.004	<0.002	<1	0.2	0.4									
40203816		0.0027	0.005	0.006	<1	0.5	0.5									
40203817		0.0057	<0.004	0.005	2	0.6	0.7									
40203818		0.0017	<0.004	<0.002	1	0.7	0.9									
40203819		0.0064	0.005	<0.002	<1	<0.1	<0.2									
40203820		0.1115	0.124	0.214	166	460	240									
40203821		0.0076	<0.004	<0.002	<1	<0.1	<0.2									
40203822		0.0034	<0.004	<0.002	<1	0.4	0.4									
40203823		0.0019	0.005	<0.002	<1	0.2	<0.2									
40203824		0.0024	0.005	<0.002	<1	0.1	<0.2									
40203825		0.0037	<0.004	<0.002	1	0.1	0.2									
40203826		0.0028	<0.004	<0.002	<1	0.2	0.6									
40203827		0.0044	0.004	<0.002	<1	1.7	1.7									
40203828		0.0892	0.131	0.101	223	429	126.0	9.97	<0.01	5.76	0.028	0.07	1.920	20.9	1.43	7.34
40203829		0.0052	<0.004	<0.002	1	0.2	0.5									

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 1300 WALSH ST. W  
 THUNDER BAY ON P7E 4X4

Page: 3 - 1  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

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CERTIFICATE OF ANALYSIS TB22269677
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Sample Description	Method	Analyte	Units	LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
					MnO	Ni	Pb	S	SiO2	TiO2	Zn	Au	Pt	Pd	
					%	%	%	%	%	%	%	ppm	ppm	ppm	
					0.01	0.002	0.01	0.01	0.2	0.02	0.002	0.001	0.005	0.001	
40203790															
40203791															
40203792															
40203793															
40203794															
40203795															
40203796															
40203797															
40203798															
40203799															
40203800															
40203801															
40203802															
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40203810															
40203811															
40203812															
40203813															
40203814															
40203815															
40203816															
40203817															
40203818															
40203819															
40203820															
40203821															
40203822															
40203823															
40203824															
40203825															
40203826															
40203827															
40203828					0.14	1.400	<0.01	6.89	41.5	0.48	0.023				
40203829															

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Page: 4 - B  
 Total # Pages: 5 (A - I)  
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**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte Units LOD	Total %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
40203830		100.30	0.09	2.72	361	50.1	914	3.64	2.13	0.98	1.18	14.0	3.15	2.22	0.37	21.4
40203831		97.46	0.10	0.15	526	62.7	56	1.64	8.44	4.55	2.08	24.4	9.20	6.42	1.69	25.6
40203832		101.38	0.11	0.25	584	60.3	144	6.55	2.15	1.19	1.14	22.0	2.98	3.56	0.42	30.4
40203833		96.33	0.02	2.75	197.0	23.2	659	3.06	3.16	1.78	1.18	18.2	3.42	2.48	0.61	10.2
40203834		101.89	0.02	0.18	544	54.3	134	5.43	2.20	1.30	1.00	17.8	3.05	3.65	0.46	26.9
40203835		100.76	0.03	0.13	380	64.2	98	6.28	2.14	0.98	0.91	19.1	3.44	3.61	0.39	31.8
40203836		99.53	0.16	0.95	498	52.1	184	5.69	2.17	1.17	0.93	16.6	2.84	2.92	0.44	25.6
40203837		100.05	0.47	1.46	388	56.8	368	5.46	2.23	1.20	0.95	15.7	3.28	2.79	0.44	26.2
40203838		98.42	0.03	0.31	795	77.5	150	4.90	2.69	1.49	1.27	20.2	3.69	3.95	0.52	38.8
40203839		101.34	0.02	0.24	628	59.7	150	5.44	2.86	1.62	1.12	21.2	3.40	3.59	0.57	29.8
40203840		101.81	0.07	0.03	614	36.0	12	2.22	0.77	0.18	0.40	13.4	1.93	0.59	0.10	16.6
40203841		101.58	0.04	0.04	676	43.2	10	2.57	0.93	0.27	0.49	14.3	2.35	0.73	0.13	19.6
40203842		101.32	0.13	0.30	382	97.8	405	3.46	2.38	0.75	0.45	15.4	5.56	3.22	0.37	43.4
40203843		99.67	0.44	0.17	79.2	20.9	1715	3.18	1.83	1.03	0.63	13.0	2.29	0.96	0.36	8.6
40203844		99.29	0.40	0.37	82.4	21.7	1775	3.95	1.99	1.06	0.62	12.4	2.49	0.90	0.37	8.8
40203845		101.72	0.42	0.12	408	32.9	189	2.44	1.59	0.91	0.63	19.1	2.03	2.72	0.33	16.2
40203846		99.92	0.17	0.18	415	77.3	197	3.65	2.67	1.01	0.74	19.2	4.76	4.78	0.44	36.2
40203847		99.46	0.05	<0.01	493	39.7	13	2.74	1.08	0.31	0.44	13.7	2.27	2.48	0.15	17.4
40203848		99.48	0.09	0.01	408	29.6	17	2.31	0.72	0.20	0.44	15.8	1.65	3.06	0.09	13.2
40203849		101.43	0.18	0.14	689	128.5	<5	1.22	7.63	3.49	3.92	23.8	10.95	9.12	1.41	57.2
40203850		100.17	0.17	0.13	710	136.0	<5	1.20	8.01	3.66	4.10	24.7	11.60	10.05	1.51	60.8
40203851		99.64	0.09	0.17	557	65.9	61	1.67	7.67	4.24	2.01	25.3	8.50	7.43	1.51	27.6
40203852		99.52	0.23	0.13	725	128.5	<5	1.12	7.43	3.49	3.72	23.4	10.65	9.28	1.42	57.1
40203853		99.35	0.05	0.35	350	27.7	2720	2.71	3.66	2.10	1.32	22.4	3.90	3.08	0.77	12.2
40203854		99.62	0.07	0.03	332	41.7	14	1.60	1.05	0.30	0.46	16.5	2.33	6.65	0.15	18.4
40203855		101.88	0.04	0.02	487	32.6	17	1.70	0.62	0.16	0.55	15.4	1.74	1.84	0.09	14.8
40203856		100.15	0.11	0.19	658	59.5	181	2.92	2.35	1.16	1.18	18.0	3.15	3.89	0.44	29.2
40203857		101.97	0.05	0.20	624	60.9	172	3.37	2.56	1.37	1.14	19.1	3.35	3.88	0.50	30.2
40203858		99.87	0.13	0.15	690	124.0	<5	1.40	7.61	3.62	3.86	24.7	10.65	9.30	1.38	54.7
40203859		101.51	0.14	0.17	745	135.0	<5	1.42	8.30	3.69	4.16	25.4	11.30	10.15	1.56	60.1
40203860		100.62	0.15	0.13	674	141.0	<5	1.13	7.45	3.55	3.81	24.5	11.15	9.46	1.42	61.3
40203861		100.36	0.06	0.15	679	55.4	107	3.98	2.53	1.41	0.95	20.6	3.49	3.32	0.49	26.5
40203862		101.16	0.06	0.06	992	72.8	20	1.41	1.56	0.45	0.79	16.2	3.71	5.45	0.22	35.2
40203863		100.81	0.10	0.19	643	79.7	210	3.83	2.65	1.37	1.06	19.8	3.63	4.11	0.50	41.6
40203864		99.94	0.06	0.38	449	41.4	243	9.36	2.43	1.29	0.82	21.9	3.03	3.17	0.46	20.2
40203865		99.12	0.08	1.70	141.5	26.2	943	4.53	3.22	1.79	0.98	16.0	3.78	1.61	0.62	9.9
40203866		100.03	0.10	1.46	147.5	21.9	1095	6.69	2.89	1.43	0.84	15.0	3.30	1.35	0.57	8.3
40203867		100.53	0.05	0.27	547	42.4	343	6.10	2.41	1.49	1.06	19.4	3.00	2.87	0.55	19.8
40203868		101.62	0.05	0.29	637	50.6	353	3.58	2.25	1.35	1.07	17.8	3.44	3.27	0.49	25.5
40203869		101.75	0.14	0.05	770	64.7	100	2.12	9.92	4.73	0.76	17.4	8.11	1.86	1.97	30.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - C  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Lu ppm 0.01	Nb ppm 0.05	Nd ppm 0.1	Pr ppm 0.02	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 0.5	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 0.5
40203830	0.14	3.95	28.2	6.33	53.1	4.75	2.9	369	0.3	0.39	3.48	0.14	1.00	134	1.0
40203831	0.62	14.35	40.0	8.63	79.2	9.41	1.7	454	1.9	1.43	3.49	0.71	4.33	200	59.4
40203832	0.15	7.53	25.8	6.66	103.0	4.25	1.8	392	0.7	0.42	8.09	0.17	5.46	109	1.2
40203833	0.21	7.12	14.3	3.00	32.0	3.11	2.2	385	0.6	0.50	1.18	0.25	0.44	180	0.6
40203834	0.19	6.58	24.4	6.15	82.1	4.01	1.5	355	1.1	0.43	7.37	0.19	3.00	106	0.9
40203835	0.12	8.02	27.1	7.20	87.5	5.12	2.3	304	0.8	0.47	13.30	0.13	4.86	78	0.9
40203836	0.17	6.16	23.4	5.95	88.3	3.67	1.3	331	0.7	0.39	7.37	0.18	2.48	108	0.7
40203837	0.16	5.59	27.7	6.88	82.4	4.40	1.6	281	0.7	0.41	6.88	0.18	2.98	113	1.0
40203838	0.22	7.32	33.1	8.63	99.4	5.19	1.3	430	0.7	0.52	9.83	0.21	2.50	121	1.2
40203839	0.24	6.71	26.4	6.56	90.1	4.50	1.1	324	0.6	0.52	8.39	0.26	2.29	132	1.0
40203840	0.02	1.82	15.5	4.04	147.5	2.95	<0.5	211	0.3	0.20	12.70	0.03	2.35	<5	0.5
40203841	0.05	3.07	18.8	4.91	162.5	3.65	0.8	230	0.5	0.24	14.10	0.04	2.97	<5	1.0
40203842	0.07	5.15	42.5	11.35	98.0	8.65	2.3	200	0.8	0.60	33.8	0.07	8.31	35	0.6
40203843	0.13	6.77	13.0	2.77	34.1	2.54	4.5	69.9	1.1	0.35	1.36	0.16	1.05	157	0.7
40203844	0.15	6.32	12.8	2.88	43.1	2.53	4.5	65.9	1.0	0.38	1.30	0.17	1.01	154	<0.5
40203845	0.11	4.73	14.2	3.75	80.1	2.56	1.2	390	0.6	0.33	5.50	0.12	6.76	66	0.8
40203846	0.15	7.02	32.7	8.87	75.5	6.32	2.6	268	0.6	0.57	20.9	0.15	9.20	86	0.8
40203847	0.03	2.12	16.8	4.61	137.0	3.62	0.9	219	0.3	0.25	15.65	0.04	9.19	<5	0.6
40203848	0.03	2.19	13.0	3.44	116.0	2.51	1.2	233	0.3	0.19	10.90	0.03	5.34	<5	0.6
40203849	0.36	37.6	69.8	16.40	66.7	13.05	2.2	756	4.2	1.49	6.32	0.50	1.52	171	0.9
40203850	0.44	39.9	72.1	17.05	68.1	13.90	2.3	784	2.8	1.58	6.99	0.54	1.68	179	1.0
40203851	0.52	13.10	41.7	8.97	85.0	9.45	2.0	553	0.9	1.31	3.45	0.63	1.60	219	0.7
40203852	0.38	37.8	69.0	16.10	66.1	13.00	2.2	761	2.6	1.48	6.46	0.50	1.94	172	0.9
40203853	0.28	8.08	16.9	3.70	36.7	3.70	1.8	423	0.6	0.62	1.36	0.31	0.36	194	0.6
40203854	0.05	2.35	17.8	4.74	94.0	3.73	0.9	219	0.3	0.25	14.60	0.05	16.65	<5	0.5
40203855	0.02	3.00	13.2	3.64	133.0	2.73	0.9	222	0.3	0.18	11.40	0.02	6.30	<5	0.5
40203856	0.18	5.29	26.7	6.83	72.4	4.25	0.9	533	0.5	0.37	7.21	0.19	2.61	111	0.8
40203857	0.18	6.78	26.8	6.97	66.9	4.66	1.2	496	0.7	0.50	8.19	0.20	2.28	112	1.0
40203858	0.40	37.1	67.4	15.60	62.4	12.50	2.4	789	2.5	1.48	6.39	0.50	1.52	168	1.0
40203859	0.44	40.5	72.7	17.05	68.6	14.00	2.6	850	2.7	1.58	6.90	0.51	1.66	180	1.3
40203860	0.42	40.5	75.0	17.30	59.5	14.15	2.5	748	2.5	1.49	6.70	0.48	1.49	187	1.1
40203861	0.20	6.68	24.9	6.60	111.5	4.64	1.7	427	0.8	0.49	9.23	0.19	3.74	116	0.9
40203862	0.06	4.21	30.0	8.07	114.5	5.65	0.8	276	0.7	0.40	25.1	0.07	11.95	8	0.6
40203863	0.21	6.51	31.9	8.57	74.2	4.93	0.9	456	0.6	0.48	14.10	0.21	3.05	118	1.0
40203864	0.17	10.50	20.0	4.89	122.5	3.68	2.5	330	0.9	0.41	5.54	0.19	4.68	118	0.8
40203865	0.25	5.56	18.2	3.67	73.3	3.90	12.6	177.5	0.6	0.47	1.78	0.24	1.73	288	0.9
40203866	0.21	6.43	15.6	3.24	94.3	3.72	11.6	134.5	0.6	0.52	1.60	0.23	2.99	291	0.8
40203867	0.16	5.94	20.3	4.98	88.5	3.55	1.4	433	0.5	0.46	4.72	0.17	2.16	180	1.0
40203868	0.19	5.50	22.9	6.17	64.4	3.98	0.9	413	0.5	0.42	5.63	0.21	1.67	144	0.8
40203869	0.40	5.61	28.6	7.69	85.2	7.49	3.3	298	0.6	1.59	19.30	0.57	25.8	38	0.8



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - D  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

CERTIFICATE OF ANALYSIS	TB22269677
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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	TI	Ag	Al	As
	Units LOD	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
40203830		9.5	0.91	79	0.19	7.28	0.004	0.079	0.0039	0.041	10.25	1.850	0.350	7.71	5.21	0.19
40203831		41.6	4.59	249	1.35	0.0476	0.004	0.059	0.0008	0.048	0.083	0.009	0.338	0.038	8.56	1.58
40203832		10.8	1.02	127	0.45	0.1465	0.004	0.033	0.0009	0.023	0.322	0.059	0.496	0.192	7.92	0.37
40203833		16.2	1.51	94	17.55	0.845	0.033	0.074	0.0221	0.581	6.75	0.363	1.075	2.37	8.34	18.30
40203834		12.8	1.28	131	0.16	0.1465	<0.004	0.035	0.0009	0.014	0.162	0.028	0.490	0.085	7.51	0.23
40203835		10.5	0.87	130	0.19	0.0767	<0.004	0.034	0.0006	0.011	0.122	0.019	0.589	0.084	7.55	0.35
40203836		11.3	1.21	113	0.26	6.02	<0.004	0.043	0.0044	0.025	2.18	0.180	0.524	3.14	7.08	0.49
40203837		11.4	1.09	99	0.34	19.05	<0.004	0.046	0.0034	0.028	4.11	0.275	0.455	4.85	6.76	0.32
40203838		14.0	1.38	157	0.22	0.1810	<0.004	0.032	0.0007	0.010	0.322	0.035	0.456	0.425	7.99	0.33
40203839		14.9	1.53	132	0.13	0.1750	<0.004	0.033	0.0009	0.015	0.213	0.036	0.470	0.092	7.90	0.23
40203840		2.5	0.15	15	0.14	0.0746	<0.004	<0.005	<0.0002	0.026	0.032	<0.003	0.031	0.037	6.94	0.37
40203841		3.7	0.27	19	0.19	0.1175	<0.004	<0.005	<0.0002	0.012	0.028	<0.003	0.025	0.090	7.24	0.30
40203842		8.8	0.53	95	0.56	0.828	0.005	0.012	0.0002	0.092	0.910	0.031	0.296	0.572	6.09	0.82
40203843		9.5	0.93	34	0.37	0.915	<0.004	0.012	<0.0002	0.069	0.613	0.059	0.253	0.242	3.45	0.53
40203844		9.9	0.96	32	0.84	1.515	<0.004	0.018	0.0003	0.108	1.360	0.102	0.390	0.575	3.45	0.89
40203845		7.8	0.82	89	0.33	0.1650	<0.004	0.018	0.0003	0.026	0.103	0.016	0.055	0.090	7.40	0.53
40203846		10.8	0.93	155	0.37	0.1230	0.004	0.032	0.0007	0.029	0.113	0.016	0.206	0.077	7.30	0.53
40203847		4.0	0.20	68	0.13	0.1255	<0.004	<0.005	<0.0002	0.024	<0.003	<0.003	0.026	0.049	6.77	0.32
40203848		2.8	0.20	78	0.17	0.1410	0.006	<0.005	<0.0002	0.020	0.012	0.003	0.022	0.081	6.64	0.29
40203849		33.6	2.85	361	0.93	0.0441	<0.004	0.043	0.0005	0.036	0.021	0.008	0.057	0.058	7.41	1.99
40203850		35.4	3.12	380	0.98	0.0444	0.004	0.049	0.0004	0.032	0.021	0.007	0.054	0.062	7.50	1.65
40203851		40.2	3.89	298	0.89	0.0211	<0.004	0.052	0.0010	0.048	0.085	0.012	0.329	0.025	8.63	1.39
40203852		33.4	2.90	364	1.10	0.0463	0.007	0.045	0.0004	0.030	0.021	0.008	0.045	0.057	7.37	1.73
40203853		19.4	1.79	115	5.45	0.1265	0.013	0.023	0.0028	0.409	0.793	0.044	0.441	0.477	8.54	5.90
40203854		3.7	0.37	181	0.18	0.0808	<0.004	<0.005	<0.0002	0.025	0.016	<0.003	0.028	0.052	7.07	0.32
40203855		2.0	0.09	51	0.10	0.0475	<0.004	<0.005	<0.0002	0.014	0.003	<0.003	0.022	0.042	6.70	0.19
40203856		11.7	1.17	142	0.29	0.1785	<0.004	0.034	0.0005	0.029	0.143	0.028	0.304	0.091	7.75	0.47
40203857		12.6	1.20	143	3.17	0.1470	<0.004	0.033	0.0007	0.017	0.168	0.031	0.325	0.090	7.72	3.43
40203858		33.0	2.87	353	3.79	0.0579	<0.004	0.046	0.0007	0.039	0.044	0.010	0.065	0.069	7.59	5.01
40203859		35.1	2.96	384	4.32	0.0713	<0.004	0.042	0.0006	0.042	0.035	0.008	0.062	0.070	7.46	6.37
40203860		35.9	2.95	392	2.93	0.1075	<0.004	0.041	0.0006	0.029	0.037	0.008	0.046	0.063	7.38	3.80
40203861		13.6	1.33	122	0.34	0.1360	<0.004	0.029	0.0007	0.020	0.147	0.032	0.443	0.062	7.80	0.36
40203862		5.8	0.42	161	0.06	0.0570	<0.004	0.006	<0.0002	0.019	0.033	0.008	0.094	0.048	6.89	0.20
40203863		13.0	1.31	152	0.08	0.1685	<0.004	0.031	0.0007	0.030	0.163	0.028	0.290	0.081	7.57	0.21
40203864		12.4	1.07	110	0.10	0.460	<0.004	0.045	0.0011	0.012	0.546	0.033	0.604	0.173	7.90	0.10
40203865		17.5	1.46	51	0.17	4.20	<0.004	0.075	0.0008	0.031	3.36	0.106	0.351	1.815	5.06	0.51
40203866		15.6	1.37	45	0.54	4.24	<0.004	0.070	0.0007	0.072	3.01	0.066	0.530	0.683	4.92	0.47
40203867		13.2	1.21	111	0.35	0.1620	<0.004	0.019	0.0006	0.031	0.280	0.028	0.452	0.106	7.14	0.23
40203868		14.1	1.27	133	0.29	0.1195	<0.004	0.016	0.0011	0.052	0.209	0.025	0.326	0.087	7.46	0.40
40203869		62.3	2.78	69	0.16	0.1015	<0.004	0.022	0.0005	0.027	0.059	0.005	0.129	0.054	7.39	0.21



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 4 - E  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
	Analyte	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In
	Units LOD	ppm 1	ppm 0.02	ppm 0.002	% 0.01	ppm 0.005	ppm 0.01	ppm 0.005	ppm 0.3	ppm 0.01	ppm 0.02	% 0.002	ppm 0.05	ppm 0.05	ppm 0.004	ppm 0.005
40203830		346	0.74	6.95	4.36	1.505	48.6	112.5	535	3.33	>10000	9.96	13.45	0.18	1.820	0.108
40203831		560	2.37	0.064	4.85	0.101	65.3	29.4	47.2	1.63	45.9	7.98	25.9	0.16	2.49	0.103
40203832		570	1.48	0.148	1.97	0.094	58.0	20.8	110.0	6.08	257	4.34	21.3	0.13	3.22	0.037
40203833		182	0.54	0.860	6.18	0.681	21.8	171.0	418	3.02	8120	11.70	19.65	0.21	2.29	0.101
40203834		550	1.32	0.165	2.32	0.102	54.1	21.2	113.5	5.58	54.5	4.39	20.6	0.14	3.19	0.031
40203835		410	1.72	0.083	1.83	0.060	63.4	16.00	91.0	6.68	84.0	3.65	21.8	0.13	3.49	0.032
40203836		490	1.42	6.49	1.87	0.400	50.8	48.7	148.0	5.72	5150	6.49	17.90	0.16	2.66	0.038
40203837		377	1.40	18.60	2.55	0.672	55.1	81.6	268	5.27	8770	7.45	16.50	0.16	2.40	0.057
40203838		750	1.22	0.250	1.83	0.112	72.3	22.4	117.0	4.75	742	4.76	20.6	0.15	3.42	0.034
40203839		590	1.14	0.188	1.66	0.088	57.5	22.9	115.0	5.01	66.2	6.23	20.8	0.14	3.07	0.041
40203840		630	0.69	0.085	0.37	0.025	36.8	0.769	11.6	2.29	7.06	0.650	13.70	0.13	0.719	<0.005
40203841		680	0.90	0.293	0.38	0.011	50.0	1.295	10.4	2.52	10.80	0.610	14.45	0.14	0.980	0.006
40203842		373	1.65	0.908	1.68	1.760	99.7	25.6	293	3.46	553	3.12	14.90	0.19	3.28	0.041
40203843		78	2.06	1.265	7.78	0.447	20.7	86.9	950	3.07	385	8.00	13.55	0.11	0.894	0.054
40203844		77	1.90	1.790	7.56	0.518	20.1	96.6	1030	3.66	1035	8.06	13.10	0.13	0.839	0.056
40203845		391	2.71	0.189	2.17	0.090	30.2	15.55	143.0	2.28	77.7	2.85	20.7	0.09	2.54	0.025
40203846		410	1.64	0.130	1.58	0.185	74.4	16.55	152.0	3.52	68.8	3.59	20.1	0.14	4.28	0.039
40203847		490	0.92	0.155	0.50	0.018	37.1	0.546	11.8	2.79	1.88	0.660	14.65	0.13	2.80	<0.005
40203848		393	1.19	0.168	0.59	0.054	29.6	0.829	13.1	2.28	2.21	0.620	15.80	0.09	2.79	0.009
40203849		700	2.38	0.049	3.52	0.069	134.5	32.7	4.1	1.24	12.65	9.13	27.0	0.26	9.56	0.086
40203850		700	2.40	0.051	3.53	0.066	136.0	33.4	3.0	1.27	12.90	9.22	26.9	0.27	9.52	0.100
40203851		520	2.09	0.030	4.95	0.099	63.6	32.3	48.1	1.54	41.9	8.12	25.1	0.19	2.65	0.082
40203852		740	2.31	0.047	3.51	0.073	133.0	32.5	3.2	1.13	13.90	9.06	25.7	0.25	9.29	0.085
40203853		321	0.62	0.138	6.19	0.257	24.9	66.2	1655	2.37	1080	8.62	21.8	0.15	2.51	0.055
40203854		344	1.50	0.084	0.86	0.071	38.8	0.972	15.2	1.66	5.63	0.780	17.10	0.11	6.61	<0.005
40203855		447	0.88	0.054	0.56	0.012	30.9	0.874	12.7	1.61	1.50	0.660	14.60	0.13	1.640	0.008
40203856		660	1.16	0.216	2.47	0.091	63.1	19.85	140.5	3.10	52.8	4.39	18.60	0.14	3.19	0.035
40203857		620	1.30	0.169	2.05	0.118	62.7	20.2	134.0	3.47	50.9	4.27	19.90	0.13	3.43	0.031
40203858		730	2.38	0.063	3.76	0.068	133.5	31.8	2.6	1.44	11.90	9.22	25.9	0.26	9.56	0.088
40203859		730	2.33	0.081	3.73	0.064	136.0	34.2	2.6	1.45	12.20	9.18	26.3	0.27	9.42	0.093
40203860		640	2.33	0.109	3.42	0.123	132.5	31.4	2.0	1.15	11.95	9.28	25.7	0.25	9.34	0.087
40203861		650	1.38	0.183	2.38	0.108	55.2	17.45	83.9	3.86	34.5	4.52	19.40	0.13	2.64	0.037
40203862		920	1.19	0.068	0.75	0.033	70.2	1.770	15.8	1.37	11.25	0.930	16.10	0.17	5.05	0.006
40203863		620	1.28	0.201	2.46	0.087	76.4	21.2	152.5	3.86	43.9	4.50	19.10	0.13	3.76	0.028
40203864		460	1.78	0.422	1.89	0.074	44.9	26.9	188.5	9.78	286	4.89	21.7	0.13	2.97	0.049
40203865		136	2.55	4.72	6.41	0.942	26.1	84.6	547	4.31	5650	10.05	15.30	0.16	1.305	0.252
40203866		144	2.08	4.79	6.32	0.628	21.8	71.6	570	6.89	1550	10.20	16.25	0.18	1.290	0.181
40203867		520	1.15	0.260	3.12	0.096	44.9	28.6	235	5.69	111.0	6.03	18.50	0.14	3.00	0.044
40203868		600	1.11	0.174	2.72	0.084	51.0	24.9	244	3.53	55.8	4.69	18.90	0.12	3.22	0.037
40203869		750	1.26	0.097	1.37	0.070	62.3	6.92	73.6	2.08	15.25	2.22	18.45	0.12	1.895	0.028



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - F  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm
40203830		1.32	21.2	32.4	5.24	1205	0.82	0.955	3.63	4990	0.081	9.61	49.9	0.0038	2.54	0.06
40203831		1.53	27.4	17.8	2.23	1065	1.74	2.46	15.75	44.7	0.178	9.50	80.7	0.0009	0.15	0.12
40203832		2.09	29.5	57.0	1.50	553	2.21	2.69	7.17	142.5	0.056	23.2	95.9	0.0008	0.26	0.05
40203833		0.63	9.65	42.8	3.41	917	8.77	1.290	7.52	3850	0.057	10.95	33.5	0.0220	2.43	0.71
40203834		1.75	26.4	49.7	1.47	641	2.04	2.32	7.32	65.8	0.060	16.65	89.3	0.0010	0.18	0.02
40203835		1.70	31.8	40.3	1.16	468	1.55	2.76	9.50	49.2	0.043	22.5	103.5	0.0006	0.14	0.02
40203836		1.87	25.3	43.1	1.65	653	3.22	1.935	6.56	314	0.052	24.4	96.0	0.0057	0.95	0.07
40203837		1.59	25.2	46.3	2.73	793	2.62	1.470	5.52	647	0.062	24.8	87.7	0.0032	1.45	0.08
40203838		2.16	36.9	51.3	1.61	570	1.94	2.58	7.64	83.4	0.068	16.30	102.0	0.0009	0.34	0.04
40203839		1.98	29.1	47.3	1.58	721	2.08	2.45	6.89	70.2	0.058	15.00	92.3	0.0011	0.26	0.02
40203840		4.92	16.70	3.7	0.08	74.6	1.23	1.910	1.975	2.62	0.011	58.4	136.5	<0.0004	0.02	0.04
40203841		4.45	22.6	5.8	0.16	86.6	0.93	1.905	3.23	7.23	0.010	56.4	127.0	<0.0004	0.02	0.03
40203842		2.94	45.2	24.5	2.06	603	1.45	1.905	5.31	279	0.018	180.5	105.5	0.0004	0.32	0.14
40203843		0.63	8.48	20.3	9.11	1405	0.33	0.454	7.33	757	0.078	3.18	39.5	<0.0004	0.16	0.10
40203844		0.68	8.12	22.8	9.32	1395	0.51	0.429	6.72	946	0.086	4.15	44.7	0.0004	0.41	0.14
40203845		1.52	14.30	32.1	1.37	441	1.36	3.01	4.73	70.6	0.056	17.90	82.8	0.0004	0.14	0.09
40203846		1.72	35.4	40.9	1.41	563	1.53	2.69	6.79	57.9	0.043	26.8	81.6	0.0008	0.20	0.08
40203847		4.63	16.10	5.3	0.08	95.6	1.09	2.18	2.02	1.58	0.019	44.4	131.0	<0.0004	0.01	0.04
40203848		3.95	13.10	5.6	0.10	97.7	1.20	2.74	2.13	1.94	0.011	39.5	121.0	<0.0004	0.01	0.04
40203849		1.87	60.4	61.3	1.81	1110	2.14	2.66	41.9	3.14	0.227	9.48	73.8	0.0010	0.14	0.07
40203850		1.84	61.4	61.4	1.82	1120	2.23	2.71	42.8	2.91	0.230	9.60	73.8	0.0007	0.13	0.07
40203851		1.42	26.9	18.1	2.28	1105	1.44	2.52	13.05	44.3	0.186	8.64	87.8	0.0014	0.16	0.09
40203852		1.80	59.8	59.5	1.77	1140	2.02	2.77	41.5	2.86	0.224	10.40	71.0	0.0007	0.13	0.07
40203853		0.78	10.70	39.7	4.07	1015	2.98	1.480	8.21	687	0.065	6.24	19.90	0.0030	0.32	0.63
40203854		3.42	16.95	7.5	0.11	121.0	1.40	3.00	2.56	2.37	0.009	41.2	100.5	<0.0004	0.03	0.03
40203855		4.60	13.95	7.8	0.13	92.2	1.14	2.26	2.98	1.88	0.011	44.7	134.5	<0.0004	0.01	0.02
40203856		1.79	31.0	37.0	1.78	682	1.39	2.41	5.66	55.7	0.072	14.00	75.2	0.0006	0.20	0.09
40203857		1.72	31.0	44.3	1.67	680	1.67	2.74	7.29	60.9	0.070	16.50	70.0	0.0008	0.21	0.05
40203858		1.99	59.7	53.1	1.81	1090	2.20	2.70	41.0	2.77	0.228	8.91	68.9	0.0008	0.14	0.09
40203859		1.95	60.9	53.1	1.79	1065	2.26	2.67	41.6	2.71	0.227	10.25	68.9	0.0007	0.18	0.11
40203860		1.72	59.4	48.2	1.84	1110	2.12	2.95	41.3	2.90	0.225	6.64	58.1	0.0006	0.12	0.08
40203861		2.34	26.0	41.6	1.57	768	1.81	2.38	6.85	36.8	0.089	23.4	111.0	0.0008	0.15	0.03
40203862		4.57	33.5	9.1	0.12	111.0	1.24	2.19	4.31	5.72	0.014	54.5	110.0	<0.0004	0.06	0.03
40203863		1.71	39.1	44.8	1.73	692	2.10	2.51	6.51	65.8	0.060	16.20	70.2	0.0010	0.20	0.07
40203864		2.37	21.6	43.1	2.02	697	1.59	2.62	11.55	92.8	0.067	17.60	132.5	0.0011	0.38	0.03
40203865		1.12	9.83	26.1	6.90	1940	0.72	1.045	5.44	561	0.052	4.73	73.2	0.0008	1.57	0.07
40203866		1.33	8.01	32.7	7.32	1745	1.00	0.878	6.54	667	0.049	6.21	95.5	0.0006	1.42	0.12
40203867		1.74	21.4	40.1	2.62	834	1.32	2.30	6.03	84.4	0.074	10.15	89.6	0.0009	0.28	0.06
40203868		1.68	24.8	39.8	2.39	713	1.38	2.57	5.76	90.8	0.068	10.90	62.8	0.0012	0.29	0.13
40203869		2.95	29.0	22.2	0.74	319	1.31	2.99	5.16	23.8	0.116	52.1	84.7	0.0015	0.05	0.05

\*\*\*\* 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  
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Page: 4 - G  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

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	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40203830	19.45	9.84	3.10	347	0.22	1.790	3.10	0.286	0.382	0.86	112.5	0.685	9.34	121.0	67.1
40203831	23.5	0.104	2.12	481	1.96	0.018	3.40	0.940	0.357	4.30	189.0	0.618	44.9	122.0	85.4
40203832	14.40	0.344	1.63	372	0.61	0.054	7.52	0.314	0.574	5.60	97.0	0.970	9.61	78.6	111.5
40203833	19.10	8.68	2.09	374	0.42	0.494	1.090	0.761	1.060	0.38	159.5	0.282	16.95	122.5	93.4
40203834	15.85	0.145	1.50	349	0.55	0.028	7.49	0.330	0.524	3.16	105.5	0.692	12.60	87.2	120.5
40203835	13.25	0.139	2.40	323	0.76	0.022	12.35	0.284	0.626	5.43	81.9	0.547	10.40	75.0	123.0
40203836	15.35	2.63	1.20	323	0.49	0.308	7.42	0.303	0.576	2.53	101.0	0.454	11.55	77.8	102.0
40203837	16.35	4.69	1.43	274	0.50	0.306	6.46	0.271	0.545	2.89	105.0	0.501	10.70	76.6	90.9
40203838	15.55	0.385	1.29	397	0.51	0.043	9.56	0.353	0.542	2.27	109.5	0.493	12.25	85.0	131.5
40203839	17.80	0.232	1.10	295	0.46	0.042	7.71	0.351	0.515	2.14	116.5	0.600	14.65	86.9	115.0
40203840	1.08	0.041	0.53	211	0.13	<0.005	12.60	0.019	0.841	2.36	2.2	0.229	2.65	15.0	19.6
40203841	1.90	0.031	0.77	217	0.34	<0.005	17.80	0.031	0.892	3.19	3.6	0.552	3.82	15.0	25.7
40203842	9.32	1.005	2.47	195.0	0.61	0.039	34.0	0.083	0.613	7.99	32.1	0.365	9.40	331	98.7
40203843	44.2	0.733	4.74	76.0	0.88	0.044	1.230	0.204	0.309	0.96	147.5	0.219	10.65	110.0	33.9
40203844	42.9	1.805	4.34	67.6	0.79	0.078	1.230	0.194	0.428	1.01	139.5	0.214	10.65	110.5	31.2
40203845	10.70	0.179	1.09	374	0.40	0.022	5.12	0.193	0.439	5.67	63.8	0.526	8.32	61.4	88.3
40203846	13.15	0.161	2.26	255	0.40	0.022	19.35	0.237	0.445	8.20	77.8	0.431	10.95	103.0	142.5
40203847	1.20	0.033	0.92	207	0.17	<0.005	13.90	0.021	0.735	9.03	1.6	0.187	4.12	12.6	76.9
40203848	1.39	0.015	1.12	211	0.17	<0.005	9.56	0.023	0.622	4.61	2.1	0.283	2.60	27.3	78.6
40203849	16.55	0.058	2.27	765	2.40	0.015	6.37	1.415	0.326	1.49	155.0	0.717	37.4	133.5	358
40203850	16.40	0.044	2.31	762	2.45	0.014	6.56	1.420	0.333	1.49	158.0	0.756	38.0	135.5	365
40203851	24.2	0.148	1.72	505	0.64	0.020	3.35	0.917	0.367	1.40	181.0	0.248	39.7	123.0	96.7
40203852	15.70	0.054	2.27	759	2.40	0.011	6.32	1.425	0.329	1.80	157.0	0.700	36.7	137.0	354
40203853	20.7	1.150	1.72	400	0.47	0.069	1.110	0.768	0.505	0.37	170.5	0.255	18.70	111.5	100.0
40203854	1.56	0.020	0.84	209	0.17	<0.005	13.55	0.029	0.495	16.35	2.3	0.141	3.63	31.0	182.0
40203855	1.64	0.006	0.79	195.5	0.16	<0.005	9.48	0.035	0.681	5.77	2.6	0.148	2.09	12.8	45.2
40203856	14.35	0.157	0.96	527	0.38	0.031	7.10	0.331	0.428	2.16	100.5	0.563	12.30	81.7	120.5
40203857	14.80	0.174	1.10	490	0.51	0.033	7.74	0.368	0.398	2.28	102.0	0.575	13.05	86.3	128.0
40203858	15.75	0.061	2.31	839	2.38	0.012	6.37	1.445	0.314	1.44	156.5	0.734	36.4	110.5	362
40203859	16.65	0.074	2.41	823	2.44	0.015	6.39	1.425	0.319	1.45	158.5	0.746	36.7	111.0	359
40203860	16.25	0.070	2.27	710	2.37	0.013	6.27	1.435	0.272	1.44	160.5	0.748	36.2	149.0	355
40203861	14.90	0.128	1.67	392	0.49	0.036	9.34	0.319	0.605	3.41	99.5	0.577	13.20	91.8	97.0
40203862	2.08	0.046	0.72	241	0.47	0.005	22.9	0.041	0.559	10.80	6.6	0.220	5.50	16.6	153.0
40203863	15.60	0.173	0.91	424	0.46	0.029	13.30	0.318	0.415	2.39	104.0	0.477	12.85	78.0	136.5
40203864	18.20	0.637	2.56	326	0.83	0.038	5.74	0.330	0.741	4.69	107.0	0.674	12.85	92.6	108.0
40203865	44.6	3.58	12.80	171.5	0.49	0.113	1.765	0.443	0.462	1.41	243	0.427	16.10	193.0	40.4
40203866	46.7	3.14	12.25	135.0	0.51	0.064	1.490	0.457	0.618	2.80	243	0.458	14.40	179.5	38.3
40203867	21.6	0.270	1.51	411	0.42	0.027	5.06	0.413	0.535	2.37	158.0	0.358	13.05	91.9	112.0
40203868	18.55	0.184	0.93	387	0.40	0.027	5.78	0.353	0.388	1.60	118.0	0.408	12.75	80.8	122.0
40203869	7.75	0.053	3.02	273	0.49	0.010	18.50	0.117	0.443	25.3	29.7	0.439	37.4	49.6	64.4



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 4 - H  
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		Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb	Al2O3 %	As %	CaO %	Co %	Cr2O3 %	Cu %	Fe2O3 %	K2O %	MgO %
		0.0004	0.004	0.002	1	0.1	0.2	0.02	0.01	0.07	0.002	0.01	0.002	0.07	0.06	0.02
40203830		0.0801	<0.004	0.030	133	9.6	33.4	9.86	<0.01	6.59	0.012	0.11	1.105	13.60	1.58	9.01
40203831		0.0057	0.005	<0.002	<1	0.1	0.6									
40203832		0.0020	0.004	<0.002	<1	1.5	1.8									
40203833		0.1880	0.332	1.595	181	379	>1000									
40203834		0.0034	0.007	<0.002	<1	1.2	1.2									
40203835		0.0037	0.004	<0.002	<1	0.7	0.7									
40203836		0.1995	0.020	0.016	421	49.4	15.2									
40203837		0.713	0.013	0.033	665	23.1	29.3									
40203838		0.0569	0.005	<0.002	177	45.6	1.9									
40203839		0.0038	<0.004	0.006	1	1.4	2.2									
40203840		0.0007	<0.004	<0.002	<1	0.1	0.3									
40203841		0.0005	<0.004	0.009	<1	0.4	<0.2									
40203842		0.0079	0.059	0.086	2	60.4	93.3									
40203843		0.0013	0.118	0.134	1	135.0	174.5									
40203844		0.0016	0.191	0.219	1	238	305									
40203845		0.0030	0.005	<0.002	<1	3.7	7.2									
40203846		0.0046	0.005	0.012	<1	1.1	1.2									
40203847		0.0022	<0.004	0.003	<1	0.1	0.4									
40203848		0.0032	<0.004	0.010	<1	<0.1	0.2									
40203849		0.0100	0.006	0.010	<1	<0.1	0.3									
40203850		0.0122	0.004	0.012	<1	<0.1	0.2									
40203851		0.0030	0.004	0.004	<1	0.1	0.6									
40203852		0.0095	0.008	0.014	<1	<0.1	0.3									
40203853		0.0161	0.033	0.280	22	48.9	238									
40203854		0.0086	0.007	0.008	<1	<0.1	0.3									
40203855		0.0016	0.004	<0.002	<1	0.1	0.3									
40203856		0.0039	0.004	0.021	<1	1.4	1.5									
40203857		0.0038	0.007	0.016	<1	1.3	1.5									
40203858		0.0097	0.004	0.027	<1	0.1	0.3									
40203859		0.0121	0.007	0.013	<1	<0.1	0.3									
40203860		0.0097	0.005	0.007	<1	<0.1	0.3									
40203861		0.0026	0.006	0.005	<1	0.7	0.8									
40203862		0.0070	0.007	<0.002	<1	<0.1	0.2									
40203863		0.0045	0.005	0.021	<1	1.3	1.4									
40203864		0.0047	0.004	0.006	<1	2.3	2.6									
40203865		0.0066	0.098	0.091	4	96.6	104.0									
40203866		0.0038	0.072	0.081	2	78.5	96.6									
40203867		0.0040	0.007	0.012	<1	1.3	1.4									
40203868		0.0039	0.004	0.007	<1	1.3	1.6									
40203869		<0.0004	0.005	<0.002	<1	0.5	0.7									



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 4 - 1  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		MnO %	Ni %	Pb %	S %	SiO2 %	TiO2 %	Zn %	Au ppm	Pt ppm	Pd ppm
40203830		0.17	0.517	<0.01	2.84	52.4	0.47	0.012			
40203831											
40203832											
40203833									0.165	0.334	1.615
40203834											
40203835											
40203836											
40203837											
40203838											
40203839											
40203840											
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40203867											
40203868											
40203869											

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 5 - A  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
		Recvd Wt. kg	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
40203870		1.97	61.0	15.30	8.34	3.39	3.67	3.57	2.37	0.025	0.64	0.12	0.16	0.04	0.06	1.56
40203871		0.89	52.8	14.30	12.40	4.97	3.26	4.69	2.24	<0.002	2.42	0.15	0.55	0.08	0.09	2.89
40203872		0.95	52.4	14.25	12.30	4.92	3.24	4.71	2.19	<0.002	2.40	0.15	0.53	0.08	0.08	3.08
40203873		1.65	53.1	14.35	12.45	4.91	3.36	4.76	2.22	<0.002	2.45	0.16	0.54	0.07	0.08	2.53
40203874		0.56	61.3	15.20	8.74	3.50	4.03	3.03	2.60	0.032	0.71	0.15	0.14	0.05	0.06	1.78
40203875		2.05	74.7	13.95	1.79	0.98	0.39	3.87	5.11	0.003	0.10	0.03	0.02	0.02	0.07	0.71
40203876		2.07	67.9	15.10	4.99	1.90	2.27	4.05	3.11	0.014	0.40	0.07	0.11	0.04	0.06	1.54
40203877		0.12	0.55	0.09	31.8	0.28	0.18	0.03	0.01	0.056	0.03	0.06	<0.01	<0.01	<0.01	16.50
40203878		1.46	38.9	8.63	20.8	4.89	7.33	0.70	1.18	0.085	0.38	0.16	0.15	0.01	0.03	6.99
40203879		0.57	52.3	16.50	11.45	7.05	4.45	3.66	1.68	0.009	1.72	0.16	0.46	0.05	0.05	0.42
40203880		0.49	50.5	12.15	10.65	5.56	8.61	1.28	2.52	0.085	0.64	0.15	0.27	0.03	0.07	6.17
40203881		0.67	52.6	12.05	10.80	5.17	8.26	1.48	2.28	0.079	0.63	0.15	0.28	0.03	0.07	5.96
40203882		1.89	62.8	15.75	7.03	2.24	3.07	3.99	2.73	0.021	0.60	0.09	0.13	0.04	0.08	1.70
40203883		1.72	67.1	14.20	5.04	2.22	2.44	3.76	2.92	0.014	0.42	0.06	0.13	0.04	0.07	1.70
40422983		0.62	52.1	16.80	11.20	7.27	4.56	3.54	2.11	0.009	1.74	0.16	0.46	0.06	0.07	0.30
40422981		0.98	43.0	13.50	19.90	7.81	5.46	3.25	0.86	0.005	3.09	0.31	0.32	0.04	0.02	2.15
40422984		0.74	53.6	19.70	6.35	4.59	1.18	6.48	4.21	<0.002	0.93	0.11	0.48	0.14	0.19	0.56

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 5 - B  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Total %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1
40203870		100.25	0.05	0.27	562	54.9	200	4.23	2.87	1.76	1.08	20.3	3.67	3.51	0.60	26.9
40203871		100.84	0.21	0.13	774	138.0	8	0.73	8.19	3.73	3.77	24.8	12.20	9.86	1.46	62.6
40203872		100.33	0.21	0.13	748	130.0	<5	0.77	8.02	3.49	3.86	25.5	11.35	9.12	1.50	58.4
40203873		100.98	0.14	0.14	722	136.0	<5	0.85	8.65	3.84	4.03	27.4	11.90	9.64	1.50	60.1
40203874		101.32	0.10	0.38	519	40.1	260	4.18	2.77	1.61	0.93	19.8	3.55	3.06	0.59	19.2
40203875		101.74	0.09	0.03	694	63.1	26	1.54	1.48	0.69	0.54	17.2	3.23	3.30	0.24	29.9
40203876		101.55	0.11	0.21	538	84.2	118	4.43	2.47	1.00	0.88	21.0	4.60	3.44	0.40	39.3
40203877		49.59	0.08	34.2	1.9	1.6	478	0.08	0.13	0.06	0.02	0.9	0.12	0.06	0.02	1.1
40203878		90.24	0.48	8.63	264	40.3	664	3.79	1.83	0.97	0.82	14.0	2.61	1.81	0.33	17.4
40203879		99.96	0.10	0.14	482	63.8	76	1.94	6.94	3.83	2.13	25.4	8.42	5.67	1.44	26.6
40203880		98.69	0.73	0.81	666	75.1	697	4.44	2.67	1.43	1.51	15.0	4.69	2.85	0.48	33.7
40203881		99.84	0.54	1.09	644	70.5	614	3.65	2.50	1.19	1.44	14.2	4.20	2.63	0.46	32.8
40203882		100.27	0.09	0.20	750	61.4	160	4.60	2.74	1.40	1.12	19.6	3.45	3.70	0.50	30.0
40203883		100.11	0.18	0.19	673	67.3	117	3.66	1.80	0.87	1.07	18.7	3.12	3.42	0.34	33.0
40422983		100.38	0.09	0.16	643	61.7	72	1.30	7.44	4.30	2.11	24.7	8.90	5.21	1.58	26.4
40422981		99.72	0.05	0.88	163.5	41.6	39	0.49	6.32	3.51	1.33	22.8	5.30	3.12	1.26	26.2
40422984		98.52	0.10	0.05	1725	183.0	8	2.26	4.98	2.80	3.28	24.1	7.04	7.86	0.96	97.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - C  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.05	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5	0.5
40203870		0.23	6.73	25.1	6.36	92.7	5.05	1.8	417	0.6	0.55	7.61	0.25	2.03	179	1.2
40203871		0.45	42.2	72.5	17.20	65.9	14.00	2.4	685	2.6	1.60	6.48	0.55	1.62	217	1.3
40203872		0.43	41.0	68.0	16.20	61.5	13.80	2.4	663	2.4	1.54	6.15	0.49	1.61	181	1.2
40203873		0.46	43.0	72.0	17.05	65.3	13.45	2.2	668	2.6	1.56	6.34	0.48	1.57	197	3.5
40203874		0.27	5.93	18.4	4.87	78.0	4.10	1.0	443	0.5	0.49	4.02	0.22	1.45	187	0.9
40203875		0.08	6.86	25.7	7.12	123.0	5.41	0.9	232	0.6	0.34	21.7	0.09	19.80	15	0.7
40203876		0.12	7.41	35.9	9.60	121.0	6.59	1.6	344	0.8	0.54	20.3	0.15	7.07	85	0.8
40203877		<0.01	0.81	0.9	0.17	0.4	0.23	1.7	2.5	0.1	0.03	<0.05	<0.01	<0.05	65	2.0
40203878		0.12	6.29	20.2	4.91	57.0	3.43	4.9	149.0	0.9	0.33	3.16	0.13	1.44	107	0.8
40203879		0.52	10.55	38.2	8.50	75.6	9.21	1.5	479	0.7	1.19	5.64	0.53	1.66	225	0.8
40203880		0.20	5.94	39.4	9.43	116.0	6.42	3.8	302	0.5	0.52	4.80	0.17	1.34	150	1.1
40203881		0.16	7.55	37.0	9.03	97.7	6.04	4.3	311	0.4	0.48	4.69	0.16	1.32	167	1.1
40203882		0.21	7.68	25.2	6.92	108.0	4.40	1.7	376	0.6	0.47	8.70	0.21	2.41	129	1.1
40203883		0.12	8.87	28.5	7.70	112.0	4.61	1.9	418	0.6	0.38	9.73	0.12	8.02	80	0.9
40422983		0.51	10.45	38.5	8.37	81.4	8.91	1.4	517	0.6	1.44	2.77	0.56	1.13	242	0.7
40422981		0.53	9.44	15.2	3.84	20.1	4.18	0.9	396	0.6	0.90	7.73	0.49	0.30	585	0.7
40422984		0.40	122.5	67.4	18.95	161.5	9.85	2.5	1200	5.9	0.84	14.80	0.40	3.74	43	1.4



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - D  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS42L	ME-MS61L	ME-MS61L	ME-MS61L
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Al	As
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.1	0.03	1	0.01	0.0005	0.004	0.005	0.0002	0.005	0.003	0.003	0.001	0.002	0.01	0.02
40203870		16.7	1.34	132	0.49	0.1555	<0.004	0.038	0.0010	0.014	0.212	0.044	0.416	0.101	7.86	0.55
40203871		40.0	3.22	395	1.17	0.0488	<0.004	0.044	0.0005	0.047	0.027	0.008	0.046	0.066	7.16	1.46
40203872		38.5	3.07	382	1.25	0.0497	<0.004	0.050	0.0007	0.037	0.057	0.008	0.042	0.061	7.30	1.92
40203873		40.5	2.98	397	1.17	0.0456	<0.004	0.050	0.0005	0.042	0.045	0.007	0.040	0.066	7.57	1.57
40203874		15.6	1.41	121	0.16	0.1505	<0.004	0.027	0.0009	0.006	0.300	0.040	0.370	0.114	7.85	0.41
40203875		7.4	0.60	97	0.13	0.365	<0.004	0.011	<0.0002	0.027	0.033	0.005	0.035	0.064	7.01	0.28
40203876		12.7	0.77	122	0.61	0.412	<0.004	0.030	0.0007	0.025	0.261	0.057	0.419	0.321	7.82	0.56
40203877		0.4	0.04	2	2.07	3.55	0.122	0.357	0.1285	0.478	78.9	7.49	0.446	13.85	0.19	2.48
40203878		10.3	0.95	63	0.39	16.10	<0.004	0.135	0.0082	0.136	31.2	6.17	1.285	52.6	4.28	0.26
40203879		41.1	3.62	243	0.94	0.0382	<0.004	0.044	0.0013	0.058	0.094	0.010	0.293	0.049	8.37	1.54
40203880		14.6	1.17	116	0.37	9.93	<0.004	0.079	0.0011	0.115	2.24	0.562	0.496	5.12	6.49	0.48
40203881		13.2	1.06	108	0.32	22.6	<0.004	0.109	0.0009	0.348	3.16	0.934	0.387	8.08	6.44	0.63
40203882		14.2	1.34	154	0.27	0.1635	<0.004	0.039	0.0011	0.027	0.230	0.030	0.424	0.190	8.13	0.39
40203883		9.3	0.75	122	0.36	0.1900	<0.004	0.029	0.0005	0.039	0.131	0.022	0.320	0.117	7.34	0.40
40422983		42.8	3.78	220	0.32	0.0174	<0.004	0.043	0.0008	0.024	0.114	0.011	0.260	0.044	8.83	0.62
40422981		33.4	3.20	116	0.43	0.1700	0.004	0.037	0.0014	0.007	1.185	0.106	0.023	0.331	7.17	0.41
40422984		29.0	2.58	463	0.73	0.0093	<0.004	0.013	0.0003	0.021	0.059	<0.003	0.141	0.076	9.79	1.08



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - E  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ba ppm 1	Be ppm 0.02	Bi ppm 0.002	Ca % 0.01	Cd ppm 0.005	Ce ppm 0.01	Co ppm 0.005	Cr ppm 0.3	Cs ppm 0.01	Cu ppm 0.02	Fe % 0.002	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.004	In ppm 0.005
40203870		550	1.22	0.195	2.44	0.108	54.2	26.9	147.0	4.22	58.7	5.82	20.7	0.11	2.91	0.047
40203871		720	2.15	0.054	3.38	0.094	129.0	30.4	2.8	0.71	15.40	8.51	28.1	0.27	8.66	0.089
40203872		730	2.17	0.055	3.43	0.089	127.5	30.6	2.1	0.69	15.20	8.67	24.5	0.24	8.74	0.087
40203873		680	2.27	0.054	3.49	0.073	130.5	31.8	2.0	0.78	14.15	8.96	25.7	0.25	8.84	0.093
40203874		520	0.95	0.190	2.56	0.118	41.7	33.2	187.0	4.25	73.6	6.22	20.2	0.11	2.80	0.054
40203875		640	1.27	0.406	0.71	0.041	61.4	2.31	18.4	1.54	30.1	1.220	18.05	0.12	3.20	0.007
40203876		550	2.03	0.627	1.39	0.161	84.7	16.40	89.5	4.38	378	3.50	19.85	0.15	3.22	0.025
40203877		1	0.04	3.30	0.21	3.55	1.50	1545	389	0.06	>10000	47.8	0.90	0.62	0.028	0.356
40203878		64	1.30	15.95	3.18	1.965	40.4	126.5	402	3.67	>10000	15.75	12.50	0.22	1.625	0.170
40203879		460	2.01	0.050	5.09	0.107	66.0	34.9	54.4	1.88	55.9	7.91	24.9	0.14	2.36	0.100
40203880		660	1.25	9.77	4.05	0.481	76.7	69.0	416	4.93	5590	7.72	14.60	0.12	2.52	0.106
40203881		640	1.20	22.4	3.74	0.833	67.9	64.8	404	3.70	9030	7.83	16.35	0.14	2.51	0.141
40203882		750	1.40	0.163	1.71	0.127	63.6	23.3	126.5	4.78	389	5.09	22.5	0.11	3.48	0.039
40203883		650	1.54	0.183	1.66	0.079	68.8	14.80	86.3	3.64	137.5	3.65	18.45	0.11	3.06	0.032
40422983		630	1.78	0.022	5.19	0.117	61.0	34.4	51.8	1.24	57.8	7.91	25.0	0.17	2.00	0.106
40422981		154	0.81	0.201	5.47	0.124	41.6	31.2	30.2	0.46	232	13.85	10.55	0.06	1.350	0.131
40422984		1650	4.35	0.009	3.32	0.052	162.0	10.50	4.2	2.02	23.3	4.43	24.9	0.25	7.67	0.036



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 5 - F  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm
		0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01	0.02	0.0004	0.01	0.02
40203870		1.97	26.3	49.6	2.06	896	1.94	2.44	5.98	72.7	0.071	14.75	93.2	0.0015	0.29	0.03
40203871		1.76	58.2	41.6	1.74	1075	2.09	3.18	38.6	2.57	0.217	5.61	61.5	0.0007	0.12	0.08
40203872		1.73	57.7	42.3	1.78	1095	2.12	3.27	38.8	2.49	0.223	6.04	60.3	0.0006	0.13	0.06
40203873		1.79	59.2	42.6	1.89	1145	2.12	3.42	39.4	2.69	0.228	6.66	58.3	0.0008	0.15	0.08
40203874		2.13	18.95	49.7	2.27	1085	1.35	2.11	5.48	100.5	0.064	9.42	80.4	0.0010	0.40	0.03
40203875		4.12	29.2	10.6	0.22	203	1.36	2.74	6.25	6.47	0.013	61.5	113.5	0.0006	0.03	0.03
40203876		2.61	39.9	51.8	1.26	488	1.97	2.78	6.44	102.5	0.052	59.6	123.5	<0.0004	0.22	0.04
40203877		0.05	0.869	2.2	0.11	439	4.94	0.056	0.577	>10000	<0.001	47.3	0.35	0.1565	>10.0	0.45
40203878		0.97	17.80	46.1	4.05	1135	1.11	0.479	5.49	>10000	0.064	31.3	55.2	0.0083	7.94	0.22
40203879		1.33	28.0	16.8	2.48	1150	1.42	2.55	10.30	58.9	0.193	9.17	74.6	0.0015	0.12	0.14
40203880		2.11	34.3	84.9	5.04	1110	0.71	0.926	5.30	1320	0.126	18.80	117.0	0.0005	0.84	0.24
40203881		1.94	29.8	76.2	4.93	1100	1.00	1.045	4.87	1380	0.123	23.4	102.5	0.0011	1.14	0.57
40203882		2.27	31.5	76.3	1.82	698	1.67	2.72	6.51	118.0	0.062	25.2	110.0	<0.0004	0.23	0.05
40203883		2.43	32.4	50.5	1.39	506	5.26	2.62	7.33	58.4	0.060	24.5	110.5	<0.0004	0.21	0.05
40422983		1.79	24.9	15.6	2.57	1170	0.97	2.46	8.99	53.5	0.205	9.06	83.0	0.0004	0.16	0.06
40422981		0.74	25.9	8.1	3.06	2200	0.45	2.27	8.62	17.05	0.147	4.79	19.60	0.0008	0.87	0.02
40422984		3.40	83.8	10.8	0.62	816	3.47	4.59	112.5	3.59	0.203	14.90	140.5	0.0006	0.04	0.06



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 5 - G  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1	0.008	0.01	0.2	0.1
40203870		20.8	0.201	1.56	399	0.45	0.042	7.60	0.376	0.498	1.96	137.5	0.613	14.95	98.0	109.0
40203871		16.25	0.052	2.18	637	2.36	0.014	6.31	1.365	0.262	1.60	152.0	0.669	34.9	133.0	345
40203872		14.30	0.042	2.17	642	2.40	0.013	6.27	1.400	0.257	1.69	152.5	0.682	35.4	133.5	349
40203873		14.65	0.043	2.25	633	2.45	0.016	6.35	1.455	0.255	1.58	160.5	0.705	35.6	128.5	358
40203874		23.4	0.277	0.89	439	0.38	0.044	4.21	0.442	0.429	1.50	157.5	0.443	15.90	106.5	107.0
40203875		3.55	0.025	1.00	208	0.41	0.005	24.0	0.060	0.575	21.3	8.5	0.267	5.78	27.5	97.6
40203876		11.40	0.293	1.72	332	0.65	0.083	20.2	0.231	0.690	6.74	75.6	0.507	11.05	80.9	115.5
40203877		0.16	80.4	4.17	2.37	0.02	6.39	0.040	0.020	0.447	0.03	54.3	0.953	0.52	129.5	1.2
40203878		14.30	30.4	5.09	141.5	0.71	5.90	3.33	0.225	1.350	1.32	93.6	0.425	10.10	177.5	59.5
40203879		21.9	0.139	1.66	461	0.63	0.016	5.98	0.996	0.338	1.63	182.5	0.337	38.6	121.5	76.5
40203880		17.85	2.64	3.90	302	0.31	0.566	4.78	0.391	0.783	1.28	127.5	0.595	13.30	113.5	99.3
40203881		19.90	3.23	3.98	320	0.30	0.946	4.75	0.377	0.685	1.27	122.5	0.552	12.45	132.0	98.8
40203882		17.20	0.212	1.51	373	0.53	0.044	8.89	0.349	0.621	2.38	116.5	0.634	12.80	88.4	130.5
40203883		10.30	0.145	1.61	401	0.51	0.028	10.40	0.248	0.617	8.04	75.2	0.473	8.81	68.2	105.5
40422983		27.6	0.122	1.32	510	0.49	0.022	2.52	1.020	0.351	1.04	194.0	0.188	40.0	121.0	66.3
40422981		26.8	1.465	0.76	415	0.48	0.160	8.03	1.755	0.094	0.33	464	0.242	31.7	141.5	34.9
40422984		5.24	0.078	2.36	1130	5.73	<0.005	14.30	0.559	0.237	3.55	41.1	1.105	24.7	91.6	421

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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 THUNDER BAY ON P7E 4X4

Page: 5 - H  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	PGM-MS23L	PGM-MS23L	PGM-MS23L	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Au ppm	Pt ppm	Pd ppm	Au ppb	Pt ppb	Pd ppb	Al2O3 %	As %	CaO %	Co %	Cr2O3 %	Cu %	Fe2O3 %	K2O %	MgO %
40203870		0.0021	<0.004	0.004	<1	1.9	1.9									
40203871		0.0029	0.004	<0.002	2	<0.1	0.3									
40203872		0.0041	0.008	0.003	2	<0.1	0.2									
40203873		0.0035	0.006	<0.002	1	<0.1	0.2									
40203874		0.0014	<0.004	<0.002	<1	2.7	3.1									
40203875		0.0006	<0.004	<0.002	<1	0.1	0.4									
40203876		0.0022	<0.004	<0.002	3	1.0	1.3									
40203877		1.210	1.095	0.684	262	>1000	713	0.10	0.01	0.24	0.157	0.07	4.30	68.9	<0.06	0.14
40203878		0.0337	0.035	0.038	64	78.6	30.9	8.19	<0.01	4.50	0.010	0.09	5.34	21.3	1.17	7.13
40203879		0.0043	<0.004	<0.002	<1	0.2	0.7									
40203880		0.0333	<0.004	0.006	59	4.1	6.7									
40203881		0.208	0.007	0.004	85	3.1	5.9									
40203882		0.0023	0.005	<0.002	<1	0.7	0.7									
40203883		0.0009	<0.004	<0.002	<1	0.7	0.6									
40422983		0.0015	<0.004	0.005	<1	<0.1	<0.2									
40422981		0.0027	<0.004	<0.002	2	0.3	1.0									
40422984		0.0032	0.005	<0.002	<1	<0.1	0.3									

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ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: 5 - 1  
 Total # Pages: 5 (A - I)  
 Plus Appendix Pages  
 Finalized Date: 17-NOV-2022  
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Project: EB80003529

CERTIFICATE OF ANALYSIS TB22269677
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Sample Description	Method Analyte Units LOD	ME-ICP81 MnO %	ME-ICP81 Ni %	ME-ICP81 Pb %	ME-ICP81 S %	ME-ICP81 SiO2 %	ME-ICP81 TiO2 %	ME-ICP81 Zn %	PGM-ICP24 Au ppm	PGM-ICP24 Pt ppm	PGM-ICP24 Pd ppm
40203870 40203871 40203872 40203873 40203874		0.01	0.002	0.01	0.01	0.2	0.02	0.002	0.001	0.005	0.001
40203875 40203876 40203877 40203878 40203879		0.06 0.15	6.13 1.300	<0.01 <0.01	33.4 8.44	0.4 37.9	0.03 0.37	0.013 0.017	0.386	1.165	0.758
40203880 40203881 40203882 40203883 40422983											
40422981 40422984											

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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 604 984 0221 Fax: +1 604 984 0218  
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Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 17-NOV-2022  
 Account: RTECILHR

Project: EB80003529

**CERTIFICATE OF ANALYSIS TB22269677**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	Au, Pt & Pd determinations by this method are semi-quantitative due to the small sample weight used (0.25g) ME-MS61L												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-32</td> <td>PUL-QC</td> <td>SPL-21X</td> <td>SPL-22</td> </tr> <tr> <td>WEI-21</td> <td>WSH-21</td> <td>WSH-22</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-32	PUL-QC	SPL-21X	SPL-22	WEI-21	WSH-21	WSH-22	
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-32	PUL-QC	SPL-21X	SPL-22										
WEI-21	WSH-21	WSH-22											
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">C-IR07</td> <td style="width: 25%;">ME-ICP06</td> <td style="width: 25%;">ME-ICP81</td> <td style="width: 25%;">ME-MS42L</td> </tr> <tr> <td>ME-MS61L</td> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> </tr> <tr> <td>PGM-MS23L</td> <td>S-IR08</td> <td>TOT-ICP06</td> <td></td> </tr> </table>	C-IR07	ME-ICP06	ME-ICP81	ME-MS42L	ME-MS61L	ME-MS81	OA-GRA05	PGM-ICP24	PGM-MS23L	S-IR08	TOT-ICP06	
C-IR07	ME-ICP06	ME-ICP81	ME-MS42L										
ME-MS61L	ME-MS81	OA-GRA05	PGM-ICP24										
PGM-MS23L	S-IR08	TOT-ICP06											