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Impala Canada
Lac des Iles Mines Ltd.

2017-2018 Exploration Assessment Report
on the
Texas Gulf Showing

Lac Des Iles Property

Lease # 107911 (CLM 252)

Lease # 107910 (CLM 251)

Prepared by:

Claire McGuinness, G.I.T

Submitted by:

David Benson, P. Geo

Thunder Bay, Ontario

August 22, 2020

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Introduction

Impala Canada and its wholly owned predecessor, Lac des Iles Mines Ltd. (LDIM) completed four diamond drillholes totalling 984 meters on the Texas Gulf Showing from December 9th, 2017 through February 2nd, 2018. Orbit Garant, based from Val d’Or, Quebec, supplied one drill to complete this work. There was a hiatus in drilling over Christmas, for a total of 19 days of drilling.

The purpose of this program was to test a previously identified copper nickel showing; the “Texas Gulf Showing.” The program aimed to determine if any palladium is present, in addition to determining the continuity and geometry of the historical Cu-Ni sulphide mineralization that is currently covered by the LDI tailings management facility.

This report is submitted to satisfy assessment work requirements. A total expenditure of \$186,719.86 is submitted for assessment. Activities documented herein include:

- 984 meters in four diamond drillholes
- 485 samples submitted for assay

Land Tenure, Location, and Access

The Lac Des Iles Mine is located approximately 90 km north of Thunder Bay in Northwestern Ontario (Figure 1.) The project is part of the Thunder Bay Mining District on provincial grid 52H04H and 52H04I. To access the claim block from Thunder Bay, head north approximately 90 kilometers on Hwy 527 to the Lac Des Iles Mine Access Road. The access road is fifteen kilometers in length and leads to a manned security entrance. The drill rig was accessible through roads going through the tailings management area (see Figure 2.)

This report, submitted to obtain assessment work credit, details the results of diamond drilling on mining lease CLM 252 (lease #107911) and CLM 251 (lease #107910.) Lac des Iles Mines Ltd. holds the mining and surface rights for CLM 251 and 252 under 21 year leases with expiry dates of August 31st, 2027. Leases and claims held by Impala Canada are shown in Figure 3 and Table 1.

Table 1: Impala Canada Mining Leases at Lac des Iles.

Claim No.	Parcel	Area (ha)	Lease No.	Due Date	Annual Taxes (\$)	Comments
CLM251	2982L TB	235	107910	2027-Aug-31	705	Surface and Mining Rights
CLM252	2983L TB	341.4	107911	2027-Aug-31	1,024	Surface and Mining Rights
CLM253	2985L TB	395.7	107909	2027-Aug-31	1,187	Surface and Mining Rights
CLM254	2984L TB	497.4	107908	2027-Aug-31	1,492	Mining Rights Only
CLM430	2531L TB	348.4	108139	2027-Sep-30	1,045	Surface and Mining Rights
CLM431	2532L TB	1,695.30	108138	2027-Sep-30	5,086	Surface and Mining Rights
Total	6	3,513.20	-	-	10,539	-

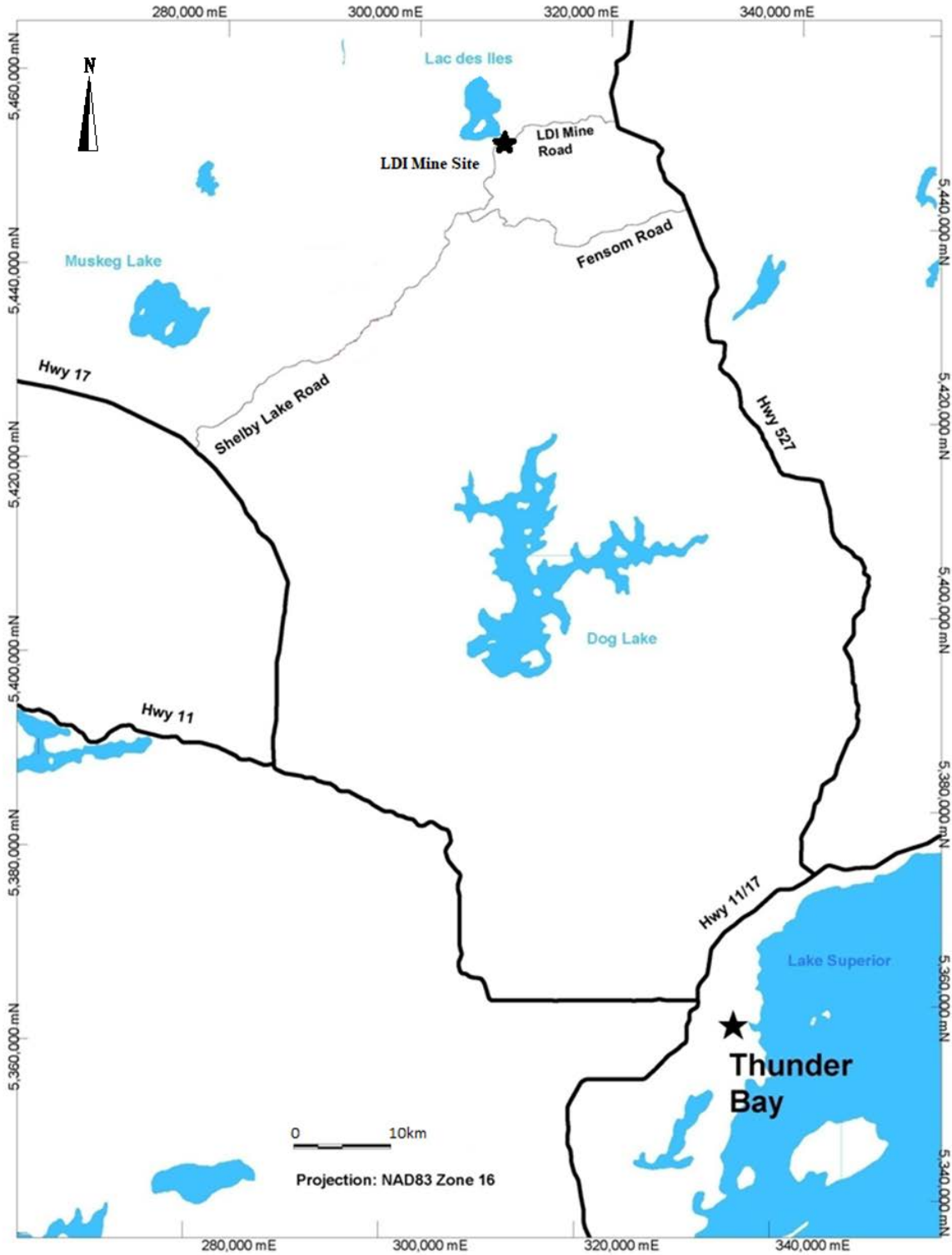


Figure 1: LDI mine property location map

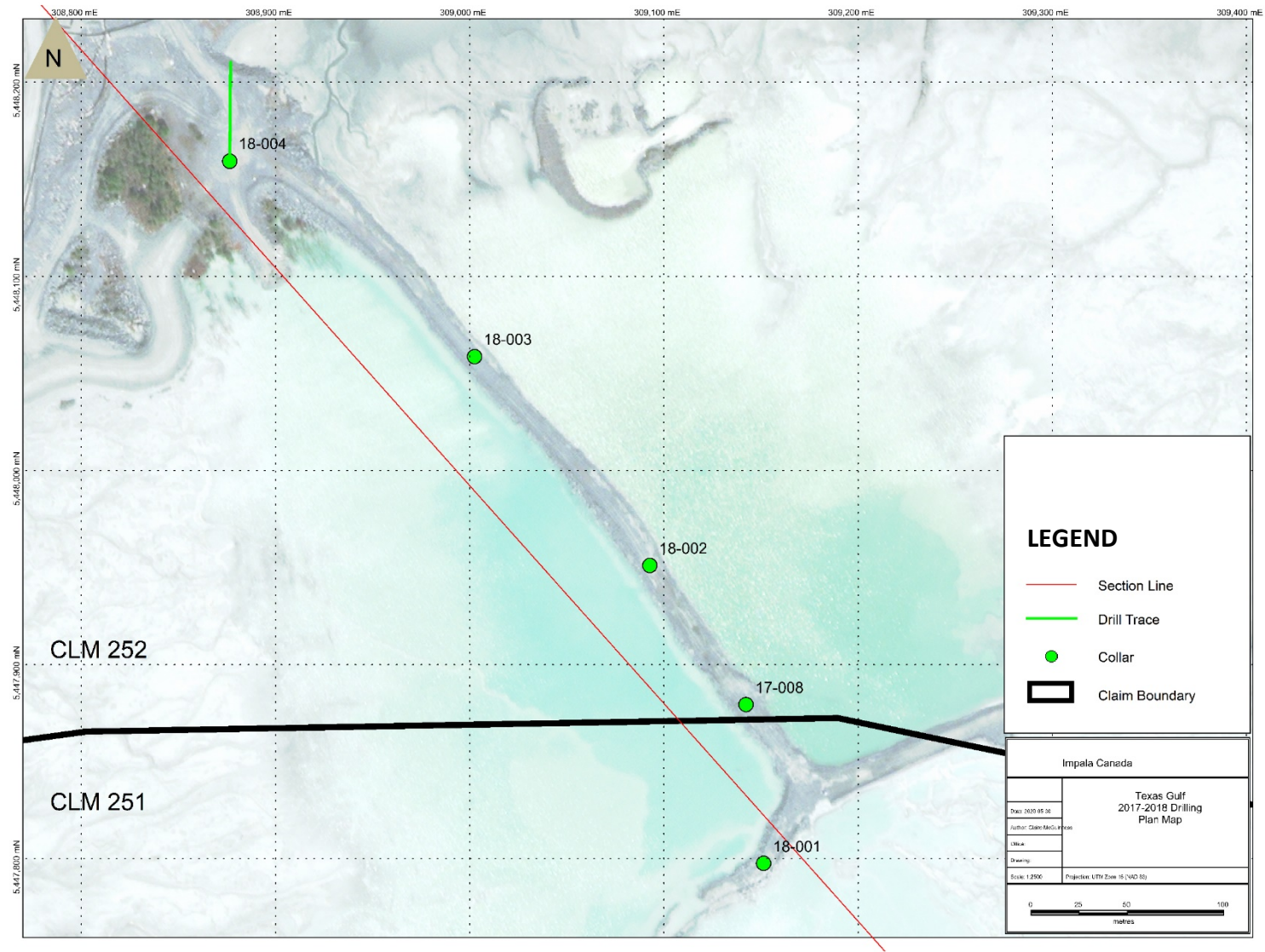


Figure 2: Plan Map showing location of drill collars, traces, and claim blocks

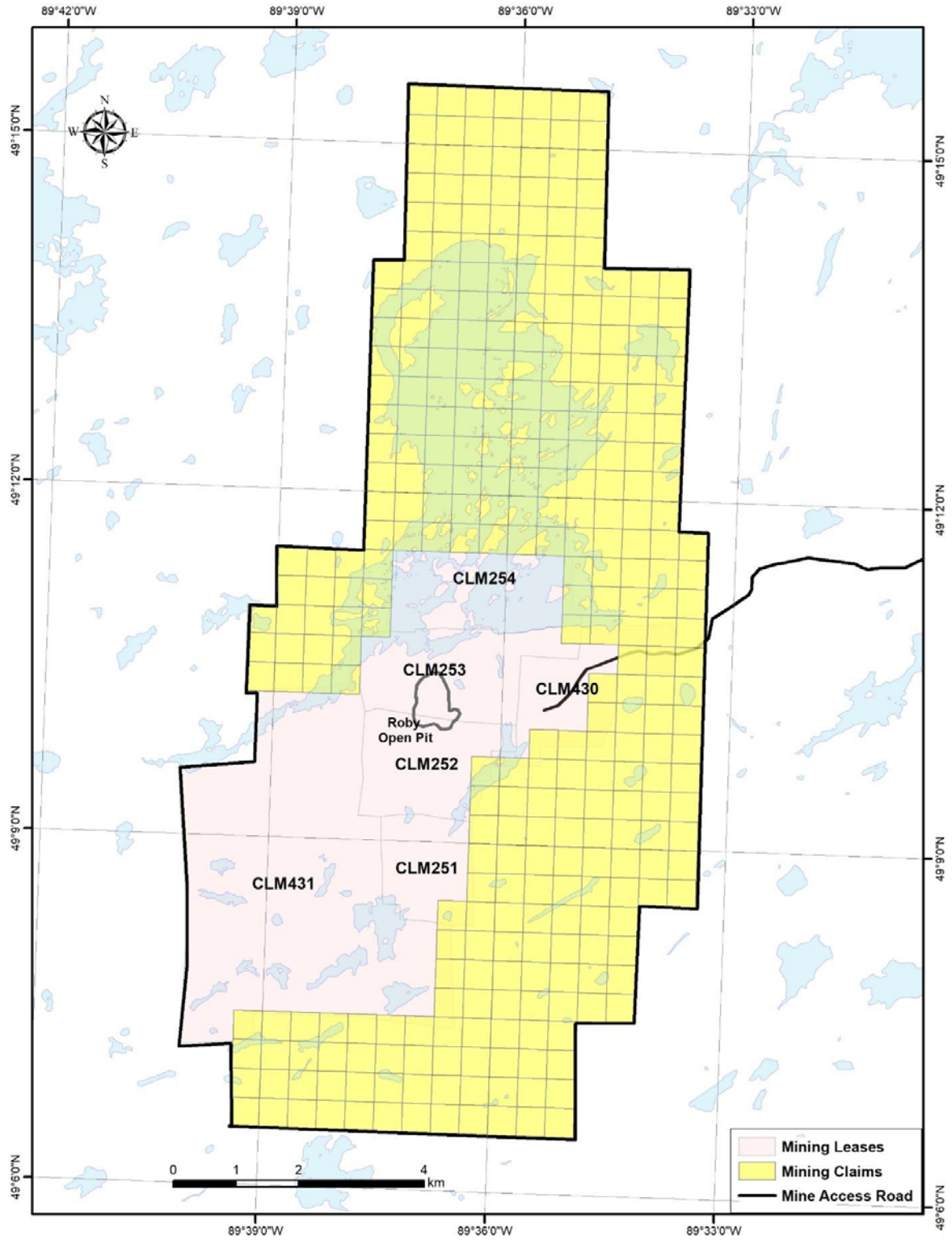


Figure 3: Land tenure of the property (from Decharte et al. 2018)

Regional Geology

Much of the information presented in this section is sourced from the Open File Report OFR6120 Project Unit 95-014; *Regional Geology of the Lac des Iles Area* (Stone et al. 2003). Information presented here was also sourced from *NI 43-101 Technical Report: Feasibility Study Incorporating the Life of Mine Plan for Lac des Iles Mine, Thunder Bay, Ontario, Canada* (Buss et al. 2017). Additional sources are referenced where appropriate.

The Lac Des Iles mine is located in the eastern part of the Central Wabigoon subprovince of the Archean Superior Structural Province. It is part of the Lac des Iles Suite of Neoproterozoic mafic to ultra-mafic intrusions that occur within an approximately 42 kilometer diameter circular perimeter comprising the Lac des Iles intrusions, the Tib Lake intrusion, the Buck Lake intrusion, the Wakinoo/Demars intrusion, the Bullseye intrusion, the Chisamore Intrusion, Shelby River Intrusion and the Dog River intrusion (see Figure 4). The intrusions are located immediately to the north of the Quetico Subprovince and directly west of the Nipigon embayment of the Mid-continent Rift System. These intrude a series of tonalite and tonalite gneiss, with some biotite granodiorite, granite, and sanukitoid rocks in the immediate area. The Quetico terrain boundary runs SW-NE immediately to the south of these intrusions. (Stone, D. 2010)

The easternmost bodies of the Lac des Iles suite of intrusions are the LDI Igneous Complex (LDI-IC) and the Legris Lake complex. Both the LDI-IC and the Legris Lake complex appear to have been emplaced along northeast-trending splay structures (e.g., Shelby Lake fault) emanating from the Quetico Fault Zone (see Figure 4). The Quetico Fault Zone is a collisional structural boundary between the Quetico and Wabigoon subprovinces that formed during the Shebandowanian orogeny at approximately 2695 Ma (Corfu and Stott 1986). Similarly, many of the Lac des Iles suite intrusions located in the western part of the Lac des Iles area are spatially associated with northeast- to north-striking faults that splay off this collisional boundary.

The intrusions range in size from 1 to 10 km and vary compositionally from leucogabbro and gabbro with rare anorthosite to peridotite and pyroxenite. The intrusions crosscut most rock types except for biotite granite dikes and Proterozoic-aged intrusions. Archean rocks are observed to be intruded by Proterozoic-aged (~1100 Ma) diabase dikes and sills of the Nipigon Sill Complex of the Mid-Continent Rift (MCR). They are typically medium grained, massive, and dark grey weathering brown and locally pyroxene phyrlic.

Uranium-lead age determinations for zircons contained in the mafic rocks show that the Lac des Iles suite intrusions were likely emplaced between 2699 and 2686 Ma (Stone and Davis 2006). This age overlaps with regional sanukitoid magmatism in both the Wabigoon Terrane and the Quetico Subprovince.

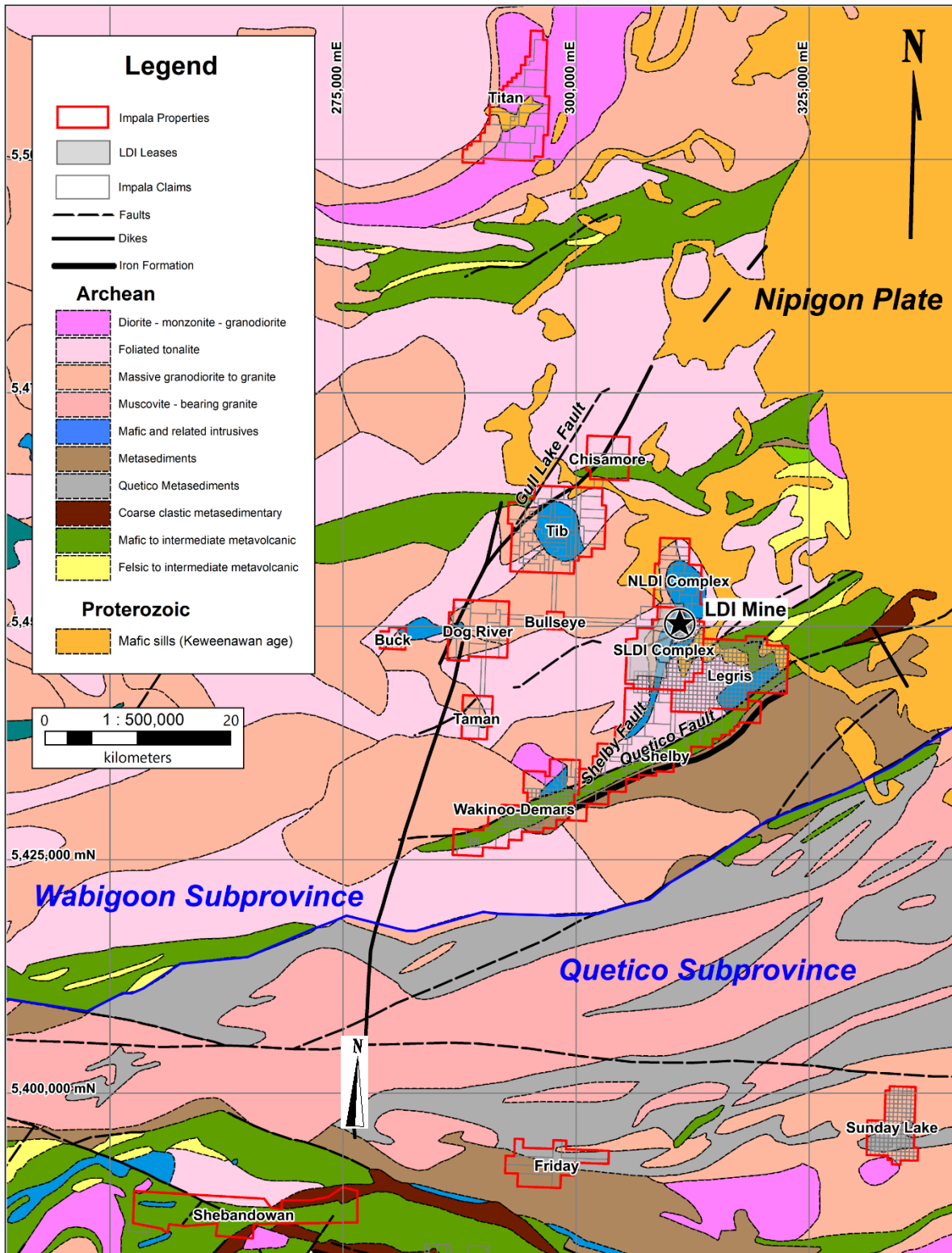


Figure 4: Regional geology of the Lac des Iles suite intrusions

Property Geology

A recent NAP Technical Report (Buss et al. 2017) describes the LDI mine property as follows:

The Property captures the known extent of the Lac Des Iles Intrusive Complex, an irregularly shaped Neoproterozoic-age mafic-ultramafic intrusive body having maximum dimensions of approximately 9 km in the north-south direction and approximately 4 kilometers in the east-west direction (Figure 5). The complex is interpreted to be made up of three discrete intrusive bodies:

- The North Lac des Iles intrusion (NLDI) characterized by a series of relatively flat-lying and nested ultramafic bodies with subordinate mafic rocks;
- The South Lac Des Iles Intrusion (SLDI), which consists of the Mine Block intrusion (MBI) and the Camp Lake Intrusion

The principal rock types in and adjacent to the LDI Igneous Complex are discussed below with reference to the host intrusion and the property geology map (Figure 5 and Figure 6). The term gabbro or gabbroic is applied as a general indicator of any mafic intrusive rock having a mineral assemblage dominated by plagioclase and pyroxene (either orthopyroxene or clinopyroxene). The 2017-2018 drilling was focused on the Mine Block Intrusion.

Mine Block Intrusion

The MBI is a small, teardrop-shaped mafic complex with maximum dimensions of 3 by 1.5 kilometers with an elongation in an east-northeast direction (see Figure 6). The MBI consists of gabbroic (noritic) rocks and metamorphosed and/or hydrothermally altered equivalents with highly variable plagioclase-pyroxene proportions, textures and structures. Accessory igneous minerals include magnetite and titanium-rich magnetite, ilmenite, and quartz-feldspar granophyre. The MBI was emplaced into predominantly intermediate composition orthogneiss basement rocks. The emplacement age of the MBI has been established by precise uranium-lead zircon methods as 2,689 to 2,693 Ma (Stone and Davis 2006 and references contained therein). The MBI geology is dominated by gabbroic, melanogabbroic and leucogabbroic rock types. The common reference to gabbroic rather than noritic rocks in the many historical reports on the geology of the MBI is a reflection of the continued difficulty in distinguishing the composition of igneous pyroxenes in both outcrop and drill core. This difficulty has resulted in a mixed lithological nomenclature for the MBI in which gabbro, norite, and gabbro-norite rock names have been somewhat interchangeably used. However, recent internal and external research has shown that the majority of the mafic rocks in the MBI, especially those associated with palladium mineralization, have clear noritic affinities such that orthopyroxene (as opposed to clinopyroxene) is the earliest-formed and generally most abundant igneous pyroxene in the rocks. In this way, the MBI has affinities to the mafic portions of better-documented mafic-ultramafic complexes such as the Bushveld Complex in South Africa, the Great Dyke in Zimbabwe and the Stillwater Complex in Montana, USA. In terms of its rock types, textures, and mineralization styles the western part of the MBI is generally analogous to the Platreef Deposit of the northern lobe of the Bushveld Complex (Kinnaird and MacDonald 2005; Kinnaird et al. 2005).

Textural and mineralogical variability is greatest in the outer margins of the MBI, especially along the well-documented western and northern margins that host most of the known palladium resources and

palladium-rich mineralized zones on the Property. Commonly observed textures in the noritic marginal units of the MBI include equigranular, fine- to coarse-grained (seriate textured), porphyritic, pegmatitic and varitextured. The interior portions of the MBI consist of more regularly textured and evolved rock types including magnetite gabbro and leucogabbro (*see* Figure 6).

Varitextured gabbroic (VGAB) units in the northern and western margins locally occur within irregular shaped heterolithic gabbro breccia zones. The most common style of breccia in these areas contains cognate mafic to ultramafic xenoliths of highly variable form and size within a matrix of VGAB. Other styles of igneous breccias are locally observed in the MBI, including those containing abundant basement gneiss clasts and others having a pyroxenitic matrix and leucogabbro and/or VGAB clasts. Internal to the varitextured rim of the western and northern MBI is a foliated medium-grained gabbro referred to as equigranular gabbro (EGAB; formerly named “East Gabbro”). In the westernmost part of the MBI an informally named unit (pyroxenite = PYXT) is commonly developed along the contact between the VGAB unit (footwall side) and the EGAB unit (hanging wall side). In the central parts of both the Roby and Offset zones, the PYXT unit hosts most of the highest-grade palladium mineralization. Recent research has demonstrated that the PYXT unit is a highly sheared, schistose and recrystallized norite to melanorite originally comprising cumulus orthopyroxene, disseminated magmatic sulfides, cumulus and intercumulus plagioclase and minor intercumulus clinopyroxene. The continued use of this informal but petrologically inaccurate name (i.e., PYXT) reflects a decision to maintain consistency in referencing the major geological units in the LDI mine.

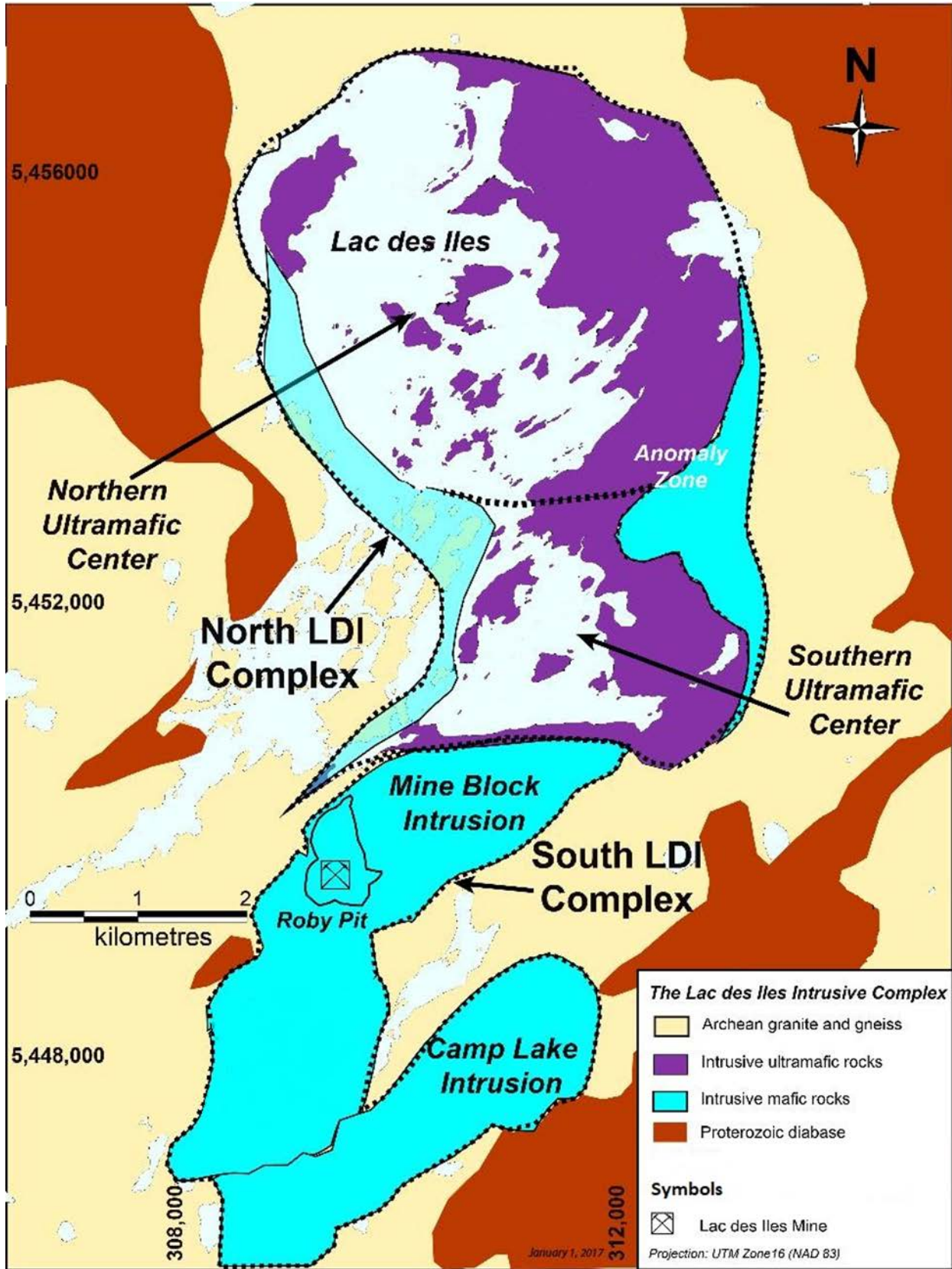


Figure 5: Simplified geology of the LDI intrusive complex (modified from Buss et al. 2017).

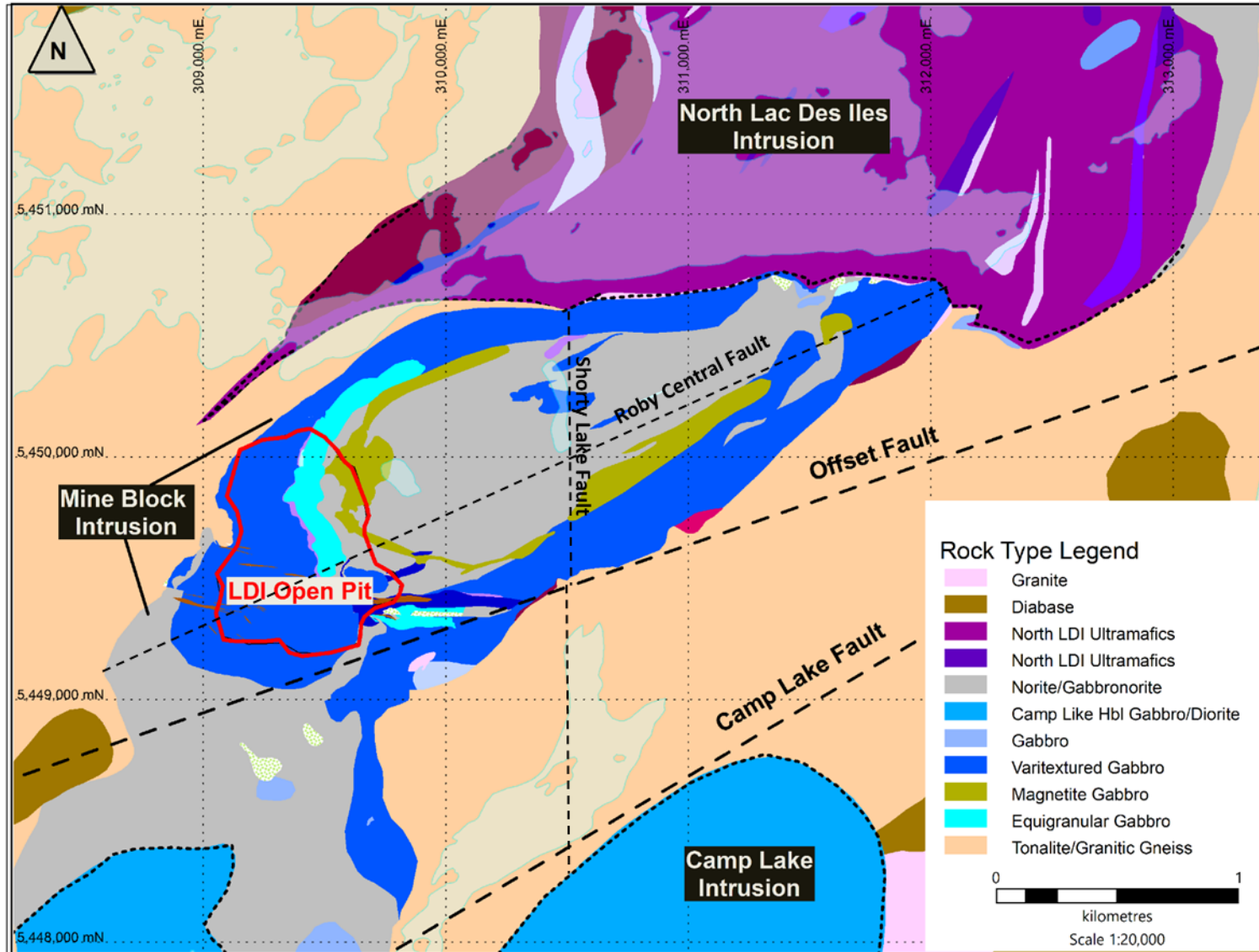


Figure 6: Simplified property geology, (modified from Buss et al. 2017)

Exploration History

1963: Discovery of Cu-Ni sulphide mineralization south of Lac des Iles by W. Baker and G. Moore. (*Lavigne et al, 2005*)

1963: Gunnex discovers the Texas Gulf Showing (formerly known as the “G” Zone.) The showing is described as large; at least 180 meters in diameter, dominated by a fine to medium grained norite with disseminated sulphide. A sample returned anomalous copper and nickel (.32 percent) and negligible values of palladium, platinum and gold. (*Pye, 1968.*)

1966: Texas completes 3 diamond drillholes (534 meters) on the Texas Gulf Showing. Drillholes returned anomalous copper and nickel.

1974: Boston Bay Mining discovers the Roby Zone in surface drill holes

1986: Geological Mapping and studies by *Sutcliffe, Sutcliffe and Sweeny* and others.

1993: Madeleine Mines changes name to North American Palladium (NAP). Open pit mining at commences at Lac Des Iles.

2000: 63 diamond drillhole program conducted by NAP. Offset Zone discovered.

2001: Major expansion to mining operations (~50,000 tpd) and milling (~16,000tpd.) (*Tait, 2012.*)

2004: Underground development commences.

2006: Underground commercial production achieved (mining Roby Zone)

2008- Lac Des Iles Mine put on care and maintenance as a result of depressed commodity prices.

2010- Lac Des Iles restarts operations in May.

2012: NAP flies a VTEM and airborne magnetic survey over the LDI suite of properties, including the Mine Block Intrusion

2013- Roby Zone open pit activities cease

2014: Construction of 825m deep shaft was completed

2015: Ground magnetic survey conducted by Abitibi Geophysics, south the Roby Open Pit.

2016: Start of transition from a long hole stoping to a sub level shrinkage (SLS) mining method. Production from the upper levels of SLS was achieved in the second half of 2016. Exploration completes 37 drillholes- primarily conversion drilling of the Lower Offset Zone and B2 Zone infill & expansion.

2017: Conversion to the SLS mining method in the Lower Offset Zone completed. Exploration completes 16 U/G diamond drillholes- 4 targeting Mystery Zone, 8 targeting Lower Offset, 3 targeting the Camp Lake block

Exploration Plans and Permits

Exploration activities for the 2017-2018 Texas Gulf exploration program lie on Mining Lease 107911 (CLM 252) and Mining Lease 107910 (CLM 251.) No permit was required for this program as all work on the property is covered by the Lac des Iles Mine Closure Plan.

2017-2018 Diamond Drilling

Four diamond drill holes totaling 984 meters were completed. The drill operated for 19 days in total. The drill rig was set up on the splitter dikes between the tailing management facility and the entire hole was cemented upon completion.

The objective of this program was to test a historical showing; the Texas Gulf Showing (formerly known as the G Zone) that is currently covered by the tailings facility. The showing was described as being hosted in medium-grained norite or gabbro, and hosting small amounts of evenly distributed disseminated sulphide (Pye, 1968.) This program aimed to validate these claims and delineate a potential mineralized body.

Results of the drilling program are summarized below with drill logs provided in Appendix B, and plan maps and cross sections provided in Appendix C. Drill core was delivered to the logging area by Orbit employees at the end of every shift. Each box was laid out in order, logged using Fusion software, and photographed by a geologist prior to the core being sawn and sampled using appropriate QAQC methods. Buss et al. (2017) provides a more detailed review of protocols utilized by the Exploration department. Exploration personnel delivered samples to ALS Laboratories in Thunder Bay where they were processed and sent to Vancouver for analysis. A total of 485 samples were submitted for assay (447 samples and 38 QAQC items), with totals for each hole outlined in Table 3. As no appreciable palladium values were returned, a significant assay table is not included in this document, though assay certificates are included in Appendix D.

Table 2: Diamond drill hole details. Co-ordinates reported in UTM NAD 83, Zone 16

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)
17-008	309142.26	5447879.45	498.92	270.00	-90.00	150
18-001	309151.34	5447797.70	499.43	360.00	-90.00	228
18-002	309092.76	5447951.12	498.60	360.00	-90.00	207
18-003	309002.44	5448058.65	498.48	360.00	-90.00	195
18-004	308876.40	5448159.29	502.42	0.51	-75.50	204

Table 3: Total samples submitted from the 2017-2018 diamond drilling program

Hole ID	Number of core samples sent for Assay (ALS)	Number of QA/QC items sent for Assay (ALS)	Total
17-008	132	12	
18-001	215	18	
18-002	34	4	
18-003	28	1	
18-004	38	3	
Total	447	38	485

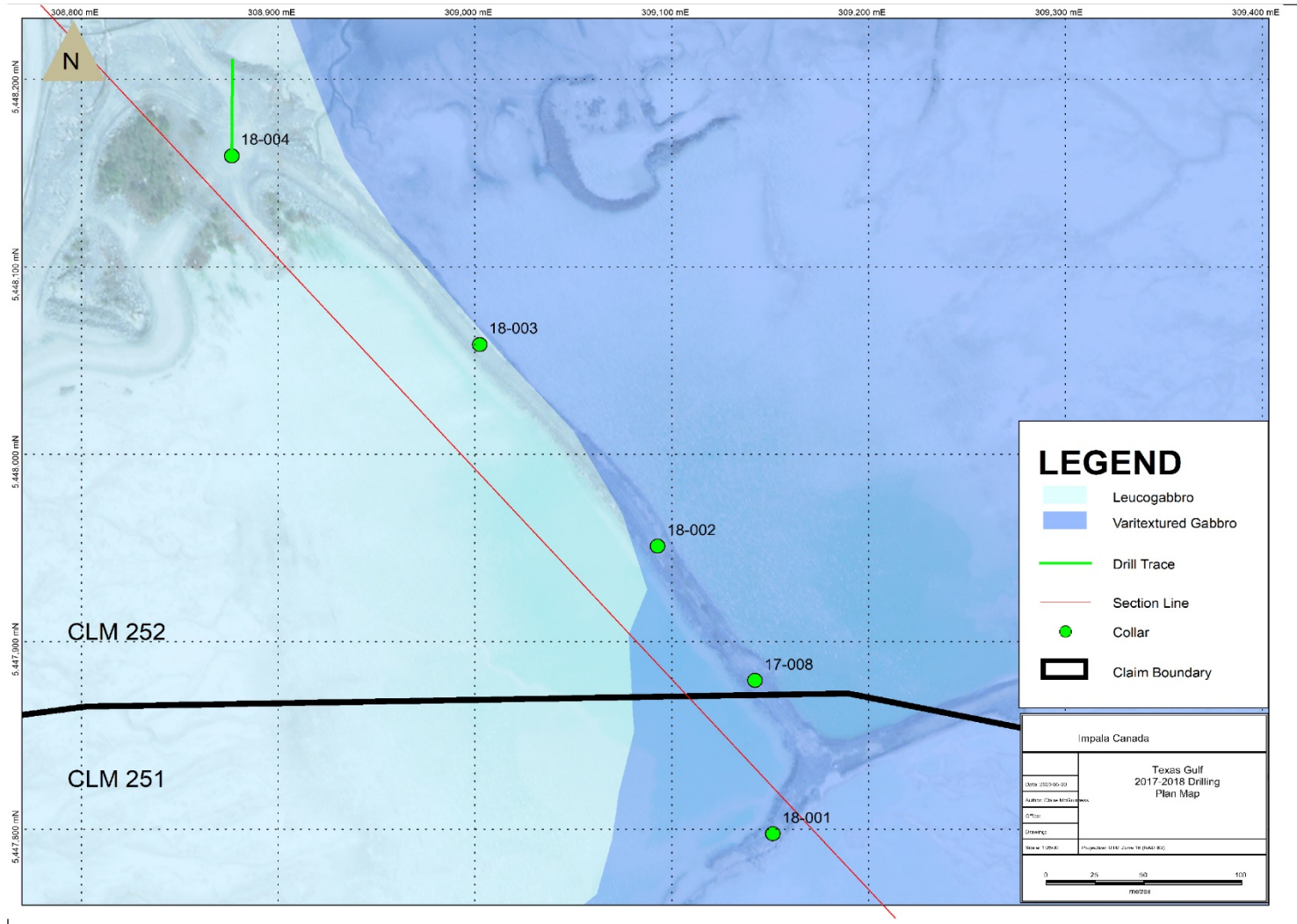


Figure 7: 2017-2018 Texas Gulf Drill Traces, over Mine Block Geology and infrastructure (1:2500 scale, NAD 83/Z16)

Results

17-008

Purpose: designed to test the geology and prospectivity of the historical Texas Gulf copper-nickel showing.

With a final depth of 150 meters, 17-008 collared into overburden and intersected varitextured norite (NOR-Vt) from 18.40 to 121 meters. This unit exhibits an average of 1-2% disseminated and blebby sulphide (dominantly pyrrhotite and chalcopyrite with lesser pyrite.) From 121-1850 meters, the drillhole intersected medium to coarse grained, massive norite with <.5% sulphide. This drillhole did not return any anomalous palladium grades, but did return weakly anomalous copper values from 37-40, 58-70 and 116-120 meters, associated with chalcopyrite.

18-001

Purpose: designed to test the geology and prospectivity of the historical Texas Gulf copper-nickel showing.

With a final depth of 228 meters, the drillhole collared in overburden and reached bedrock at 18.20 meters. Medium grained, massive norite was intersected from 18-2-60.43 meters. The norite exhibits 1 to 3% blebby finely disseminated sulphide- dominantly chalcopyrite and pyrrhotite. The lower contact of the norite is gradational with varitextured gabbro. Sulphide mineralization in the Gab-VT decreases to <.5% (dominantly pyrite) and the unit is cross cut by centimeter to meter scale tonalitic and mafic dikes. No anomalous palladium values were returned from this drillhole, but anomalous copper was intersected from 25-30 meters and 54-60 meters, associated with sulphides.

18-002

Purpose: designed to test the geology and prospectivity of the historical Texas Gulf copper-nickel showing.

With a final depth of 207 meters, 18-002 collared in norite and remained in norite until the end of hole. The norite was relatively fresh, medium to coarse grained and massive to weakly foliated. Rare, 20-30 centimeter intersections of variable textured (Gab-Vt) were observed, but these zones did not exhibit any change in sulphide content or alteration intensity. No sulphides were noted in this hole, with the exception of fine-grained pyrite in mafic dikes. Three, one-meter samples were taken every 20 meters. No anomalous values (precious or base metals) returned from this drillhole.

18-003

Purpose: designed to test the geology and mineralization of the historical Texas Gulf copper-nickel showing and to confirm whether there is a change in metal tenor towards the Camp Lake Fault

With a final depth of 195 meters, 18-003 collared into overburden and intersected country tonalite from 33-42 meters. At 42.0, medium grained gabbro, cut by numerous tonalite veinlets. From 42 meters until end of hole, norite with varying degrees of alteration was observed. Trace sulphide was observed in this drillhole. Three, one meter samples were taken approximately every 20 meters. No anomalous values (precious or base metals) were returned from this drillhole.

18-004

Purpose: designed to test the historical Texas Gulf copper-nickel showing, and to confirm whether there is any change in metal tenor towards the Camp Lake Fault

With a final depth of 204 meters, 18-004 collared in overburden and intersected medium grained gabbro from 6 to 200.18 meters. The gabbro is cut by multiple centimeter scale mafic and tonalitic dikes. From 200.18-204 meters, altered gabbro-norite was observed. With the exception of the mafic dikes, no sulphide was observed in this drillhole. Three, one-meter samples were taken roughly every 20 meters. No anomalous values (precious or base metals) were returned from this drillhole.

Conclusions and Recommendations

This drill program was unsuccessful in identifying palladium mineralization related to the historical Texas Gulf Showing. Though the drill core exhibited visible sulphide and two drillholes returned weakly anomalous copper and nickel values, no drill holes returned anomalous palladium values. No further work is recommended at this time.

Statement of Expenditures

The total value of work completed on the 2017-2018 Texas Gulf Drilling Project is summarized in Table 5. A more detailed statement of expenditures, categorized by claim block, is summarized in Table 6.

Table 4: Statement of expenditures for claims on the Texas Gulf 2017-2018 drill program

Total Costs	
Personnel (LDI & Contractors)	\$19,200.00
Food and Accommodation (Camp)	\$6,520.00
Transportation	\$352.50
Fuel	\$300.00
Drilling	\$145,808.80
Assay Analyses	\$14,538.55
Total Expenditure	\$186,719.86

Table 5: Summary of allocation of expenditures by claim block on the Texas Gulf Project

Claim Block	Drilling							Total	
	Meters Drilled	Samples Assayed	Drilling Expense	Accomodation Expense	Support Expense	Assay Expense	Fuel Expense		Transortation Expense
CL 252 (LEA 107911)	756	252	\$112,023.84	\$5,009.27	\$14,751.22	\$7,554.05	\$230.49	\$270.82	\$139,839.69
CL 251 (LEA 107910)	228	233	\$33,784.97	\$1,510.73	\$4,448.78	\$6,984.50	\$69.51	\$81.68	\$46,880.17

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Statement of Qualifications

DAVID CHARLES BENSON
5 JAGUAR PLACE
BRANDON, MB R7B 3P1
(204) 223-2281

1. I, David Benson, am a practicing professional geologist in both Ontario and Manitoba: APGO (#2302) and EGM (#25701).
2. I am a licenced Prospector in the Province of Ontario (#1012682) and have completed the Mining Act Awareness Program for Supervisors (#B7A9-447E-B5B3-CF67).
3. I graduated with a Bachelor's of Sciences degree (First Class Honours) in the Geological Sciences from the University in 2001.
4. I am currently the Exploration Manager for Impala Canada Ltd. and have been continually been employed by the company and predecessors since 2012.
5. I have authored or co-authored seven (7) NI 43-101 Mineral Property Reports.

Respectfully submitted,



August 22, 2020

David Benson

Exploration Manager
Impala Canada Ltd
556 Tenth Ave.
Thunder Bay, ON
(807) 623-8005
davebenson@impalacanada.com



Appendix A: List of Leases on which work was performed

Lease	Claim No.	Township	Parcel	Land Area (Hectares)	Lease Type	Due Date	Annual Taxes (\$)	Comments
LEA-107910	CLM251	LAC DES ILES	2982L TB	235	21 Year Lease	2027-Aug-31	705	Surface and Mining Rights
LEA-107911	CLM252	LAC DES ILES	2983L TB	341.4	21 Year Lease	2027-Aug-31	1,024	Surface and Mining Rights

Appendix B: Diamond drill logs



**Detailed Log Report
Hole Number 17-008**

Project Name: LDI - Mine	Primary Coordinates Grid: MINE:	Hole Status: Completed
Project Code: LDI MINE	North: 30,272.31	Length: 150.00
Location:	East: 31,825.64	Hole Size: NQ
Start Date: Dec 09, 2017	Elev: 498.92	Hole Type: DDH
Completed Date: Dec 11, 2017	Collar Dip: -90.00	Casing: No
Contractor: Orbit Garant	Collar Az: 360.00	Cemented: Yes
Core Storage: Lac des Iles Minesite-cross piles	Destination Coordinates Grid: UTM83-16	Collar Survey: N
Units: METRIC	North: 5,447,879.45	Plugged: N
Start Log: Jan 06, 2018	East: 309,142.26	Multishot Survey: N
End Log: Jan 06, 2018	Elev: 498.92	Pulse EM Survey: N
Logged By 1: Douglas Nikkila	Claim: 252	EOH: 150.00
		Artesian Cond: No
		Abandon Reason:

Comments: Sampling: Collar to EOH.

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	18.40	OB												

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
18.40	121.00	NOR-Vt	W439776	ASSAY	TB18009663	18.40	19.00	0.60	0.020	0.007	0.007	0.128	0.145	0.008
<p>NORVT: Deep purple to dark green colour (where increased Chl-Act alteration present). Bronzite is commonly disseminated throughout the groundmass but is absent in some sections. X-cutting pegmatite veins/pods/blebs may exhibit a lack of purple colour and weak Chl-Act alteration representing later phases intruding host rock. Overall grainsize medium- to coarse-grained with irregular pegmatitic sections. Weak to moderate Chl-Act-Na alteration throughout, with irregular sections displaying strong Chl-Act imparting dark green colour. Fractures are present throughout but veinlets are nearly absent (1-2 cm TON veinlets sporadic from 71-75m).</p>			W439778	ASSAY	TB18023655	19.00	20.00	1.00	0.030	0.003	0.008	0.128	0.185	0.009
			W439779	ASSAY	TB18023655	20.00	21.00	1.00	0.013	0.003	0.005	0.081	0.079	0.006
			W439780	ASSAY	TB18023655	21.00	22.00	1.00	0.011	0.003	0.006	0.085	0.091	0.007
			W439781	ASSAY	TB18023655	22.00	23.00	1.00	0.008	0.005	0.006	0.064	0.084	0.009
			W439782	ASSAY	TB18023655	23.00	24.00	1.00	0.014	0.005	0.011	0.128	0.128	0.010
			W439783	ASSAY	TB18023655	24.00	25.00	1.00	0.016	0.009	0.008	0.081	0.080	0.006
			W439784	ASSAY	TB18023655	25.00	26.00	1.00	0.008	0.006	0.005	0.067	0.069	0.006
			W439785	ASSAY	TB18023655	26.00	27.00	1.00	0.017	0.008	0.010	0.094	0.098	0.007
			W439786	ASSAY	TB18023655	27.00	28.00	1.00	0.026	0.011	0.018	0.169	0.161	0.009
			W439787	ASSAY	TB18023655	28.00	29.00	1.00	0.014	0.003	0.009	0.124	0.140	0.008
<p>Mineralization texture and abundance varies from fine- to coarse-grained, disseminated/blebby/intercumulus intergrowths of Po-Ccp(Py). The larger, coarse-grained blebby sulfides are associated with pegmatites and generally appear to nucleate along mafic mineral grain boundaries, while fine-grained disseminated sulfides tend to nucleate within m.g matrix. Overall, unit displays 1-2% Po-Ccp, with some localized sections up to 10m displaying <0.5 to 3% Po-Ccp.</p>			W439788	ASSAY	TB18023655	29.00	30.00	1.00	0.009	0.003	0.006	0.070	0.069	0.006
			W439789	ASSAY	TB18023655	30.00	31.00	1.00	0.008	0.006	0.006	0.074	0.069	0.006
			W439790	ASSAY	TB18023655	31.00	32.00	1.00	0.010	0.005	0.005	0.077	0.082	0.007
			W439791	ASSAY	TB18173538	32.00	33.00	1.00	0.006	0.003	0.005	0.056	0.068	0.006
			W439792	ASSAY	TB18009663	33.00	34.00	1.00	0.015	0.009	0.008	0.094	0.100	0.006
			W439793	ASSAY	TB18173538	34.00	35.00	1.00	0.035	0.013	0.020	0.192	0.174	0.009
			W439797	ASSAY	TB18009664	35.00	36.00	1.00	0.021	0.005	0.011	0.090	0.098	0.007
			W439798	ASSAY	TB18173538	36.00	37.00	1.00	0.028	0.007	0.012	0.119	0.135	0.007
			W439799	ASSAY	TB18009664	37.00	38.00	1.00	0.029	0.008	0.012	0.155	0.168	0.009
			W439800	ASSAY	TB18173538	38.00	39.00	1.00	0.048	0.013	0.022	0.218	0.236	0.010
			W439801	ASSAY	TB18009664	39.00	40.00	1.00	0.044	0.011	0.025	0.231	0.255	0.011
			W439802	ASSAY	TB18173538	40.00	41.00	1.00	0.025	0.009	0.014	0.130	0.121	0.007
			W439803	ASSAY	TB18009664	41.00	42.00	1.00	0.025	0.010	0.025	0.113	0.096	0.006
W439804	ASSAY	TB18173538	42.00	43.00	1.00	0.021	0.006	0.021	0.104	0.094	0.006			
W439805	ASSAY	TB18009664	43.00	44.00	1.00	0.051	0.016	0.073	0.251	0.231	0.010			
W439806	ASSAY	TB18173538	44.00	45.00	1.00	0.025	0.008	0.073	0.165	0.134	0.008			
W439807	ASSAY	TB18009664	45.00	46.00	1.00	0.024	0.008	0.064	0.284	0.219	0.013			
W439808	ASSAY	TB18173538	46.00	47.00	1.00	0.019	0.005	0.025	0.151	0.129	0.008			
W439809	ASSAY	TB18009664	47.00	48.00	1.00	0.020	0.006	0.017	0.142	0.115	0.008			
W439810	ASSAY	TB18023645	48.00	49.00	1.00	0.035	0.010	0.028	0.246	0.208	0.011			

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W439811	ASSAY	TB18023645	49.00	50.00	1.00	0.019	0.006	0.019	0.204	0.178	0.010
			W439812	ASSAY	TB18023645	50.00	51.00	1.00	0.029	0.009	0.036	0.276	0.205	0.011
			W439813	ASSAY	TB18023645	51.00	52.00	1.00	0.016	0.003	0.015	0.196	0.173	0.011
			W439814	ASSAY	TB18023645	52.00	53.00	1.00	0.037	0.012	0.026	0.270	0.230	0.011
			W439816	ASSAY	TB18023645	53.00	54.00	1.00	0.023	0.008	0.014	0.127	0.122	0.008
			W439817	ASSAY	TB18023645	54.00	55.00	1.00	0.003	0.003	0.005	0.037	0.039	0.005
			W439818	ASSAY	TB18023645	55.00	56.00	1.00	0.015	0.003	0.023	0.154	0.133	0.009
			W439819	ASSAY	TB18023645	56.00	57.00	1.00	0.015	0.003	0.017	0.152	0.145	0.011
			W439820	ASSAY	TB18023645	57.00	58.00	1.00	0.019	0.006	0.017	0.184	0.172	0.012
			W439821	ASSAY	TB18173538	58.00	59.00	1.00	0.026	0.007	0.025	0.268	0.240	0.013
			W439822	ASSAY	TB18009664	59.00	60.00	1.00	0.027	0.009	0.026	0.245	0.234	0.014
			W439823	ASSAY	TB18173538	60.00	61.00	1.00	0.029	0.009	0.027	0.243	0.225	0.013
			W439824	ASSAY	TB18009664	61.00	62.00	1.00	0.025	0.008	0.031	0.223	0.206	0.012
			W439825	ASSAY	TB18173538	62.00	63.00	1.00	0.024	0.007	0.022	0.204	0.194	0.012
			W439826	ASSAY	TB18009664	63.00	64.00	1.00	0.026	0.007	0.024	0.243	0.234	0.014
			W439827	ASSAY	TB18173538	64.00	65.00	1.00	0.027	0.007	0.027	0.241	0.214	0.013
			W439828	ASSAY	TB18009664	65.00	66.00	1.00	0.025	0.009	0.024	0.238	0.220	0.013
			W439829	ASSAY	TB18173538	66.00	67.00	1.00	0.026	0.007	0.032	0.229	0.204	0.013
			W439830	ASSAY	TB18009664	67.00	68.00	1.00	0.020	0.006	0.026	0.217	0.204	0.013
			W439831	ASSAY	TB18173538	68.00	69.00	1.00	0.024	0.007	0.023	0.220	0.201	0.013
			W439832	ASSAY	TB18009664	69.00	70.00	1.00	0.024	0.006	0.025	0.227	0.216	0.014
			W439833	ASSAY	TB18173538	70.00	71.00	1.00	0.011	0.003	0.010	0.107	0.113	0.010
			W439834	ASSAY	TB18009664	71.00	72.00	1.00	0.005	0.003	0.004	0.066	0.082	0.010
			W439836	ASSAY	TB18173538	72.00	73.00	1.00	0.004	0.003	0.003	0.062	0.082	0.010
			W439837	ASSAY	TB18009664	73.00	74.00	1.00	0.004	0.003	0.003	0.051	0.077	0.010
			W439838	ASSAY	TB18173538	74.00	75.00	1.00	0.005	0.003	0.005	0.066	0.088	0.010
			W439839	ASSAY	TB18009664	75.00	76.00	1.00	0.004	0.003	0.007	0.080	0.100	0.010
			W439840	ASSAY	TB18173538	76.00	77.00	1.00	0.007	0.003	0.010	0.101	0.116	0.011
			W439841	ASSAY	TB18009664	77.00	78.00	1.00	0.003	0.003	0.001	0.038	0.069	0.010
			W439842	ASSAY	TB18173538	78.00	79.00	1.00	0.002	0.003	0.002	0.040	0.067	0.010
			W439843	ASSAY	TB18009664	79.00	80.00	1.00	0.004	0.003	0.003	0.058	0.081	0.010
			W439844	ASSAY	TB18173538	80.00	81.00	1.00	0.003	0.003	0.002	0.053	0.075	0.010

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W439845	ASSAY	TB18009664	81.00	82.00	1.00	0.002	0.003	0.001	0.044	0.073	0.010
			W439846	ASSAY	TB18173538	82.00	83.00	1.00	0.006	0.003	0.005	0.067	0.087	0.010
			W439847	ASSAY	TB18009664	83.00	84.00	1.00	0.003	0.003	0.001	0.039	0.068	0.010
			W439848	ASSAY	TB18173538	84.00	85.00	1.00	0.004	0.003	0.003	0.061	0.083	0.010
			W439849	ASSAY	TB18009664	85.00	86.00	1.00	0.006	0.003	0.002	0.050	0.074	0.010
			W439850	ASSAY	TB18173538	86.00	87.00	1.00	0.007	0.003	0.006	0.063	0.080	0.010
			W439851	ASSAY	TB18009664	87.00	88.00	1.00	0.006	0.003	0.003	0.058	0.080	0.010
			W439852	ASSAY	TB18173538	88.00	89.00	1.00	0.002	0.003	0.001	0.035	0.059	0.009
			W439853	ASSAY	TB18009664	89.00	90.00	1.00	0.010	0.005	0.006	0.099	0.124	0.010
			W439854	ASSAY	TB18173538	90.00	91.00	1.00	0.041	0.016	0.066	0.209	0.248	0.011
			W439856	ASSAY	TB18009664	91.00	92.00	1.00	0.009	0.003	0.008	0.091	0.110	0.011
			W439857	ASSAY	TB18173538	92.00	93.00	1.00	0.005	0.003	0.005	0.058	0.084	0.010
			W439858	ASSAY	TB18009664	93.00	94.00	1.00	0.005	0.003	0.004	0.053	0.082	0.011
			W439859	ASSAY	TB18173538	94.00	95.00	1.00	0.010	0.003	0.006	0.077	0.104	0.011
			W439860	ASSAY	TB18009664	95.00	96.00	1.00	0.008	0.003	0.004	0.071	0.103	0.012
			W439861	ASSAY	TB18173538	96.00	97.00	1.00	0.003	0.003	0.001	0.042	0.067	0.009
			W439862	ASSAY	TB18009664	97.00	98.00	1.00	0.010	0.003	0.007	0.096	0.119	0.012
			W439863	ASSAY	TB18173538	98.00	99.00	1.00	0.003	0.003	0.002	0.050	0.079	0.010
			W439864	ASSAY	TB18009664	99.00	100.00	1.00	0.002	0.003	0.002	0.039	0.073	0.010
			W439865	ASSAY	TB18173538	100.00	101.00	1.00	0.001	0.003	0.001	0.035	0.068	0.010
			W439866	ASSAY	TB18009664	101.00	102.00	1.00	0.002	0.003	0.001	0.042	0.076	0.011
			W439867	ASSAY	TB18009664	102.00	103.00	1.00	0.001	0.003	0.001	0.038	0.072	0.011
			W439868	ASSAY	TB18009664	103.00	104.00	1.00	0.001	0.003	0.001	0.044	0.078	0.011
			W439869	ASSAY	TB18009664	104.00	105.00	1.00	0.002	0.003	0.002	0.047	0.080	0.011
			W439870	ASSAY	TB18009664	105.00	106.00	1.00	0.002	0.003	0.003	0.053	0.085	0.011
			W439871	ASSAY	TB18009664	106.00	107.00	1.00	0.001	0.003	0.002	0.050	0.081	0.011
			W439875	ASSAY	TB18009663	107.00	108.00	1.00	0.003	0.003	0.004	0.049	0.080	0.010
			W439876	ASSAY	TB18009663	108.00	109.00	1.00	0.007	0.003	0.007	0.073	0.096	0.010
			W439877	ASSAY	TB18009663	109.00	110.00	1.00	0.003	0.003	0.004	0.061	0.086	0.011
			W439878	ASSAY	TB18009663	110.00	111.00	1.00	0.010	0.006	0.014	0.171	0.174	0.013
			W439879	ASSAY	TB18009663	111.00	112.00	1.00	0.010	0.005	0.014	0.196	0.188	0.013
			W439880	ASSAY	TB18009663	112.00	113.00	1.00	0.007	0.003	0.010	0.129	0.138	0.012

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W439881	ASSAY	TB18009663	113.00	114.00	1.00	0.009	0.005	0.012	0.174	0.171	0.013
			W439882	ASSAY	TB18009663	114.00	115.00	1.00	0.006	0.006	0.008	0.113	0.122	0.012
			W439883	ASSAY	TB18009663	115.00	116.00	1.00	0.012	0.007	0.013	0.156	0.142	0.011
			W439884	ASSAY	TB18009663	116.00	117.00	1.00	0.033	0.011	0.025	0.313	0.289	0.013
			W439885	ASSAY	TB18009663	117.00	118.00	1.00	0.013	0.008	0.019	0.245	0.222	0.015
			W439886	ASSAY	TB18009663	118.00	119.00	1.00	0.020	0.007	0.018	0.224	0.220	0.014
			W439887	ASSAY	TB18009663	119.00	120.00	1.00	0.015	0.008	0.016	0.207	0.202	0.013
			W439888	ASSAY	TB18009663	120.00	121.00	1.00	0.015	0.009	0.016	0.187	0.181	0.013

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
121.00	150.00	NOR	W439889	ASSAY	TB18009663	121.00	122.00	1.00	0.001	0.003	0.002	0.055	0.086	0.011
<p>NOR: Same unit as previously described, but VT and pegmatite material absent, along with an overall decrease in mineralization (<0.5% f.g disseminated Po-Ccp-Py). Purple colour, moderate Chl-Act-Na alteration, medium-grained massive texture. From 126.54-129.65m, a sharp contact is observed with dark green coloured rock and strong Chl-Act alteration. Unit similar in appearance to 'GBNR' and likely alteration product of NOR. Localized irregular sections of strong Chl-Act observed to EOH. Minor mafic veinlets/dikes 1-5cm in width X-cut throughout.</p>			W439890	ASSAY	TB18009663	122.00	123.00	1.00	0.004	0.003	0.005	0.057	0.083	0.010
			W439891	ASSAY	TB18009663	123.00	124.00	1.00	0.001	0.003	0.002	0.047	0.080	0.011
			W439892	ASSAY	TB18009663	124.00	125.00	1.00	0.001	0.003	0.004	0.039	0.073	0.010
			W439894	ASSAY	TB18009663	125.00	126.00	1.00	0.002	0.003	0.003	0.051	0.084	0.011
			W439895	ASSAY	TB18009663	126.00	127.00	1.00	0.002	0.003	0.002	0.043	0.076	0.011
			W439896	ASSAY	TB18009663	127.00	128.00	1.00	0.001	0.003	0.004	0.037	0.074	0.010
			W439897	ASSAY	TB18009663	128.00	129.00	1.00	0.001	0.003	0.005	0.055	0.086	0.011
			W439898	ASSAY	TB18009663	129.00	130.00	1.00	0.002	0.003	0.007	0.062	0.085	0.011
			W439899	ASSAY	TB18009663	130.00	131.00	1.00	0.001	0.003	0.003	0.071	0.099	0.011
			W439900	ASSAY	TB18009663	131.00	132.00	1.00	0.005	0.005	0.006	0.095	0.103	0.011
			W439901	ASSAY	TB18009663	132.00	133.00	1.00	0.006	0.003	0.010	0.091	0.102	0.010
			W439902	ASSAY	TB18009663	133.00	134.00	1.00	0.006	0.003	0.007	0.118	0.128	0.011
			W439903	ASSAY	TB18009663	134.00	135.00	1.00	0.008	0.005	0.008	0.111	0.112	0.011
			W439904	ASSAY	TB18009663	135.00	136.00	1.00	0.002	0.003	0.003	0.063	0.087	0.011
			W439905	ASSAY	TB18009663	136.00	137.00	1.00	0.006	0.003	0.006	0.072	0.089	0.011
			W439906	ASSAY	TB18009663	137.00	138.00	1.00	0.002	0.003	0.005	0.072	0.095	0.011
			W439907	ASSAY	TB18009663	138.00	139.00	1.00	0.002	0.003	0.004	0.069	0.091	0.011
			W439908	ASSAY	TB18009663	139.00	140.00	1.00	0.004	0.003	0.005	0.076	0.091	0.011
			W439909	ASSAY	TB18009663	140.00	141.00	1.00	0.002	0.003	0.008	0.062	0.081	0.011
W439910	ASSAY	TB18009663	141.00	142.00	1.00	0.006	0.003	0.006	0.057	0.072	0.010			
W439911	ASSAY	TB18009663	142.00	143.00	1.00	0.001	0.003	0.001	0.016	0.015	0.005			
W439912	ASSAY	TB18009663	143.00	144.00	1.00	0.001	0.003	0.001	0.017	0.013	0.005			
W439914	ASSAY	TB18009663	144.00	145.00	1.00	0.001	0.003	0.003	0.050	0.060	0.010			
W439915	ASSAY	TB18009663	145.00	146.00	1.00	0.001	0.003	0.002	0.043	0.066	0.010			
W439916	ASSAY	TB18009663	146.00	147.00	1.00	0.002	0.003	0.002	0.045	0.066	0.010			
W439917	ASSAY	TB18009663	147.00	148.00	1.00	0.006	0.005	0.012	0.158	0.150	0.013			
W439918	ASSAY	TB18009663	148.00	149.00	1.00	0.006	0.003	0.014	0.163	0.164	0.014			
W439919	ASSAY	TB18009663	149.00	150.00	1.00	0.003	0.003	0.007	0.096	0.119	0.012			



**Detailed Log Report
Hole Number 18-001**

Project Name: LDI - Mine	Primary Coordinates Grid: MINE:	Hole Status: Completed
Project Code: LDI MINE	North: 30,190.86	Length: 228.00
Location:	East: 31,837.15	Hole Size: NQ
Start Date: Jan 18, 2018	Elev: 499.43	Hole Type: DDH
Completed Date: Jan 23, 2018	Collar Dip: -90.00	Casing: Yes
Contractor: Orbit Garant	Collar Az: 360.00	Cemented: Yes
Core Storage: Lac des Iles Minesite-cross piles	Destination Coordinates Grid: UTM83-16	Collar Survey: N
Units: METRIC	North: 5,447,797.70	Plugged: N
Start Log: Feb 03, 2018	East: 309,151.34	Multishot Survey: N
End Log: Feb 06, 2018	Elev: 499.43	Pulse EM Survey: N
Logged By 1: Claire McGuinness	Claim: 251	EOH: 228.00
		Artesian Cond: No
		Abandon Reason:

Comments: Drill Hole: 18-001A was renamed to: 18-001 through Fusion Client by kprivett on 2018-03-16 17:41:33

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	18.20	OB	W440312	ASSAY	TB18031540	18.00	19.00	1.00	0.033	0.012	0.021	0.165	0.183	0.012
Nobbled, ground fragments of NOR.														

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
18.20	60.43	NOR	W440313	ASSAY	TB18031540	19.00	20.00	1.00	0.028	0.010	0.017	0.128	0.153	0.011
<p>NOR- purple in colour, medium grained, massive. Unit exhibits weak chlorite alteration typically associated with and coating fractures. Zones of increased alteration (moderate) are associated with fracture zones (32.3-34.53m)</p> <p>Rarely, coarse grained intervals are observed (30.49-31.09, others <2cm)- contacts on these are diffuse (injections into crystal mush?) sulphide in these intervals are more coarse/blebby.</p> <p>Fine grained felsic dike encountered from 39.6-40 (35). Mineralization is pervasive from upper contact to 50.44m and occurs as very fine disseminations of po and cpy. More rarely, coarse grained blebs and assemblages of po-cpy are observed (often in more cg intervals of rock). Gradational decrease in mineralization from 50.44m-62.68m, Assemblage changes to more pyrite dominant, lesser po-cpy (<.5% overall), Mineralization content increases at 62.68-lower contact, still finely disseminated, pyrite dominant (.5) with lesser po-cpy (<.5), <1.0% overall</p> <p>Lower contact with GABVT is not sharp- general increase in alteration (to moderate) and introduction of variable grain size.</p> <p>Mag Sus is consistent with accepted NOR values, typically between 5-15 SI for fresh NOR and less than 5 for altered NOR.</p>			W440314	ASSAY	TB18031540	20.00	21.00	1.00	0.034	0.010	0.022	0.170	0.184	0.012
			W440315	ASSAY	TB18031540	21.00	22.00	1.00	0.014	0.003	0.008	0.082	0.107	0.010
			W440316	ASSAY	TB18031540	22.00	23.00	1.00	0.009	0.003	0.010	0.126	0.136	0.012
			W440317	ASSAY	TB18031540	23.00	24.00	1.00	0.019	0.006	0.014	0.170	0.185	0.013
			W440318	ASSAY	TB18031540	24.00	25.00	1.00	0.018	0.005	0.012	0.105	0.123	0.010
			W440319	ASSAY	TB18031540	25.00	26.00	1.00	0.026	0.009	0.017	0.174	0.202	0.012
			W440320	ASSAY	TB18031540	26.00	27.00	1.00	0.065	0.024	0.041	0.319	0.317	0.014
			W440321	ASSAY	TB18031540	27.00	28.00	1.00	0.035	0.014	0.028	0.293	0.265	0.013
			W440322	ASSAY	TB18031540	28.00	29.00	1.00	0.019	0.008	0.024	0.345	0.291	0.015
			W440324	ASSAY	TB18031540	29.00	30.00	1.00	0.014	0.006	0.019	0.298	0.257	0.013
			W440325	ASSAY	TB18031540	30.00	31.00	1.00	0.022	0.008	0.023	0.191	0.185	0.010
			W440326	ASSAY	TB18031540	31.00	32.00	1.00	0.009	0.003	0.007	0.097	0.093	0.007
			W440327	ASSAY	TB18031540	32.00	33.00	1.00	0.009	0.003	0.013	0.122	0.118	0.007
			W440328	ASSAY	TB18031540	33.00	34.00	1.00	0.021	0.008	0.025	0.258	0.222	0.011
			W440329	ASSAY	TB18031540	34.00	35.00	1.00	0.021	0.008	0.029	0.255	0.214	0.011
			W440330	ASSAY	TB18031540	35.00	36.00	1.00	0.011	0.005	0.026	0.245	0.202	0.010
			W440331	ASSAY	TB18031540	36.00	37.00	1.00	0.006	0.003	0.014	0.145	0.136	0.009
			W440332	ASSAY	TB18031540	37.00	38.00	1.00	0.004	0.003	0.011	0.065	0.078	0.008
			W440333	ASSAY	TB18031540	38.00	39.00	1.00	0.001	0.003	0.004	0.055	0.078	0.009
			W440334	ASSAY	TB18031540	39.00	40.00	1.00	0.009	0.003	0.025	0.211	0.195	0.010
W440335	ASSAY	TB18031540	40.00	41.00	1.00	0.010	0.003	0.025	0.168	0.147	0.009			
W440336	ASSAY	TB18031540	41.00	42.00	1.00	0.033	0.011	0.025	0.169	0.158	0.008			
W440337	ASSAY	TB18031540	42.00	43.00	1.00	0.018	0.007	0.018	0.096	0.109	0.008			
W440338	ASSAY	TB18031540	43.00	44.00	1.00	0.003	0.003	0.004	0.031	0.041	0.006			
W440339	ASSAY	TB18031540	44.00	45.00	1.00	0.017	0.006	0.008	0.097	0.108	0.007			
W440343	ASSAY	TB18031541	45.00	46.00	1.00	0.007	0.003	0.010	0.089	0.087	0.007			
W440344	ASSAY	TB18031541	46.00	47.00	1.00	0.008	0.003	0.007	0.061	0.068	0.006			
W440345	ASSAY	TB18031541	47.00	48.00	1.00	0.021	0.008	0.013	0.138	0.145	0.008			
W440346	ASSAY	TB18031541	48.00	49.00	1.00	0.031	0.009	0.025	0.226	0.210	0.009			
W440347	ASSAY	TB18031541	49.00	50.00	1.00	0.014	0.006	0.015	0.142	0.099	0.006			

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W440348	ASSAY	TB18031541	50.00	51.00	1.00	0.014	0.005	0.010	0.100	0.105	0.008
			W440349	ASSAY	TB18031541	51.00	52.00	1.00	0.006	0.003	0.007	0.085	0.085	0.007
			W440350	ASSAY	TB18031541	52.00	53.00	1.00	0.013	0.005	0.009	0.094	0.089	0.007
			W440351	ASSAY	TB18031541	53.00	54.00	1.00	0.012	0.003	0.009	0.092	0.092	0.007
			W440352	ASSAY	TB18031541	54.00	55.00	1.00	0.031	0.011	0.028	0.264	0.235	0.011
			W440353	ASSAY	TB18031541	55.00	56.00	1.00	0.035	0.015	0.042	0.329	0.273	0.012
			W440354	ASSAY	TB18031541	56.00	57.00	1.00	0.034	0.014	0.037	0.289	0.249	0.011
			W440355	ASSAY	TB18031541	57.00	58.00	1.00	0.041	0.015	0.039	0.291	0.257	0.011
			W440356	ASSAY	TB18031541	58.00	59.00	1.00	0.035	0.014	0.032	0.286	0.241	0.011
			W440357	ASSAY	TB18031541	59.00	60.00	1.00	0.031	0.012	0.029	0.261	0.217	0.011
			W440358	ASSAY	TB18031541	60.00	61.00	1.00	0.039	0.013	0.031	0.284	0.233	0.011

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
60.43	166.55	GAB-Vt	W440359	ASSAY	TB18031541	61.00	62.00	1.00	0.027	0.011	0.024	0.196	0.163	0.009
<p>GABVT- fine to coarse grained, green/grey to purple/grey in colour. Upper contact is gradational. Unit is weakly to moderately chl-act altered. VT textures are not always blatantly obvious. Unit is cut by multiple dikes (mafic, intermediate and felsic, all at 50 degrees). Fractures infilled with chlorite (more rarely, epidote) are common. After 130m, tonalite veins become common- often these are at low angle (roughly parallel TCA) and are deformed in the same direction. There are also localized patches that appear brecciated (qtz-vein breccia?) angular mafic blocks surrounded by stringers and veinlets of qtz. Mineralization drops off significantly at upper contact of this unit to 122.6 (<.5% overall) as fine disseminations and small blebs of py-po and cpy, intercalated with barren intervals. Increased mineralization between 122.6 and 126.5 (1% po-cpy). From 126.5m-164 contact with dike, mineralization is sporadic- localized patches 5-20cm in length of disseminated sulphide (.5-1% po-cpy) intercalated with barren patches. Localized interval at 124.4 and 136.7 with magnetite, (~70SI) and Mineralization picks up again to <1% from 154 to lower contact. Typically mag sus values are low <1.0 SI, but some intersections of fresher rock exhibit 1-2SI.</p>			W440360	ASSAY	TB18031541	62.00	63.00	1.00	0.015	0.006	0.018	0.094	0.087	0.007
			W440362	ASSAY	TB18031541	63.00	64.00	1.00	0.010	0.005	0.008	0.076	0.072	0.007
			W440363	ASSAY	TB18031541	64.00	65.00	1.00	0.005	0.003	0.076	0.045	0.044	0.005
			W440364	ASSAY	TB18031541	65.00	66.00	1.00	0.003	0.003	0.002	0.025	0.033	0.005
			W440365	ASSAY	TB18031541	66.00	67.00	1.00	0.001	0.003	0.001	0.018	0.027	0.005
			W440366	ASSAY	TB18031541	67.00	68.00	1.00	0.001	0.003	0.001	0.016	0.024	0.005
			W440367	ASSAY	TB18031541	68.00	69.00	1.00	0.008	0.011	0.004	0.046	0.042	0.005
			W440368	ASSAY	TB18031541	69.00	70.00	1.00	0.009	0.003	0.009	0.053	0.047	0.006
			W440369	ASSAY	TB18031541	70.00	71.00	1.00	0.015	0.003	0.013	0.078	0.063	0.006
			W440370	ASSAY	TB18031541	71.00	72.00	1.00	0.010	0.003	0.009	0.057	0.056	0.006
			W440371	ASSAY	TB18031541	72.00	73.00	1.00	0.014	0.007	0.009	0.070	0.067	0.006
			W440372	ASSAY	TB18031541	73.00	74.00	1.00	0.006	0.003	0.001	0.032	0.037	0.005
			W440373	ASSAY	TB18031541	74.00	75.00	1.00	0.008	0.003	0.006	0.051	0.049	0.005
			W440374	ASSAY	TB18031541	75.00	76.00	1.00	0.005	0.003	0.004	0.047	0.039	0.005
			W440375	ASSAY	TB18031541	76.00	77.00	1.00	0.005	0.003	0.008	0.089	0.058	0.007
			W440376	ASSAY	TB18031541	77.00	78.00	1.00	0.008	0.005	0.018	0.177	0.096	0.008
			W440377	ASSAY	TB18031541	78.00	79.00	1.00	0.005	0.003	0.005	0.048	0.043	0.006
			W440378	ASSAY	TB18031541	79.00	80.00	1.00	0.004	0.003	0.005	0.044	0.039	0.006
			W440379	ASSAY	TB18031541	80.00	81.00	1.00	0.005	0.003	0.006	0.050	0.043	0.007
			W440380	ASSAY	TB18031541	81.00	82.00	1.00	0.003	0.003	0.004	0.035	0.036	0.006
W440382	ASSAY	TB18031541	82.00	83.00	1.00	0.002	0.003	0.002	0.026	0.031	0.006			
W440383	ASSAY	TB18031541	83.00	84.00	1.00	0.001	0.003	0.003	0.022	0.029	0.006			
W440384	ASSAY	TB18031541	84.00	85.00	1.00	0.003	0.003	0.002	0.024	0.030	0.006			
W440385	ASSAY	TB18031541	85.00	86.00	1.00	0.003	0.003	0.004	0.029	0.033	0.006			
W440386	ASSAY	TB18031541	86.00	87.00	1.00	0.009	0.005	0.007	0.063	0.051	0.006			
W440387	ASSAY	TB18031541	87.00	88.00	1.00	0.005	0.005	0.004	0.041	0.038	0.006			
W440388	ASSAY	TB18031541	88.00	89.00	1.00	0.002	0.003	0.002	0.030	0.033	0.006			
W440389	ASSAY	TB18031541	89.00	90.00	1.00	0.003	0.003	0.002	0.025	0.033	0.006			
W440390	ASSAY	TB18031541	90.00	91.00	1.00	0.002	0.003	0.002	0.015	0.022	0.004			
W440391	ASSAY	TB18031541	91.00	92.00	1.00	0.002	0.003	0.002	0.012	0.030	0.004			

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W440392	ASSAY	TB18031541	92.00	93.00	1.00	0.003	0.003	0.002	0.033	0.034	0.006
			W440393	ASSAY	TB18031541	93.00	94.00	1.00	0.001	0.003	0.002	0.028	0.030	0.006
			W440394	ASSAY	TB18031541	94.00	95.00	1.00	0.003	0.003	0.004	0.036	0.037	0.006
			W440395	ASSAY	TB18031541	95.00	96.00	1.00	0.012	0.003	0.008	0.070	0.070	0.007
			W440396	ASSAY	TB18031541	96.00	97.00	1.00	0.019	0.007	0.011	0.092	0.092	0.007
			W440397	ASSAY	TB18031541	97.00	98.00	1.00	0.026	0.011	0.014	0.122	0.111	0.008
			W440398	ASSAY	TB18031541	98.00	99.00	1.00	0.024	0.009	0.015	0.119	0.111	0.008
			W440399	ASSAY	TB18031541	99.00	100.00	1.00	0.019	0.006	0.013	0.104	0.096	0.007
			W440400	ASSAY	TB18031541	100.00	101.00	1.00	0.012	0.006	0.008	0.076	0.074	0.007
			W440402	ASSAY	TB18031541	101.00	102.00	1.00	0.009	0.003	0.007	0.061	0.059	0.006
			W440403	ASSAY	TB18031541	102.00	103.00	1.00	0.007	0.003	0.008	0.058	0.053	0.006
			W440404	ASSAY	TB18031541	103.00	104.00	1.00	0.005	0.003	0.004	0.045	0.045	0.006
			W440405	ASSAY	TB18031541	104.00	105.00	1.00	0.003	0.003	0.004	0.043	0.040	0.006
			W440406	ASSAY	TB18031541	105.00	106.00	1.00	0.005	0.003	0.004	0.029	0.033	0.005
			W440407	ASSAY	TB18031541	106.00	107.00	1.00	0.002	0.003	0.002	0.023	0.032	0.006
			W440408	ASSAY	TB18031541	107.00	108.00	1.00	0.011	0.003	0.007	0.054	0.049	0.005
			W440409	ASSAY	TB18031541	108.00	109.00	1.00	0.005	0.003	0.004	0.039	0.032	0.005
			W440410	ASSAY	TB18031541	109.00	110.00	1.00	0.007	0.003	0.007	0.062	0.051	0.007
			W440411	ASSAY	TB18031541	110.00	111.00	1.00	0.004	0.003	0.004	0.047	0.042	0.007
			W440412	ASSAY	TB18031541	111.00	112.00	1.00	0.002	0.003	0.003	0.035	0.033	0.006
			W440413	ASSAY	TB18031541	112.00	113.00	1.00	0.003	0.003	0.003	0.036	0.033	0.006
			W440414	ASSAY	TB18031541	113.00	114.00	1.00	0.004	0.003	0.003	0.041	0.038	0.006
			W440415	ASSAY	TB18031541	114.00	115.00	1.00	0.004	0.003	0.004	0.044	0.039	0.006
			W440416	ASSAY	TB18031541	115.00	116.00	1.00	0.002	0.003	0.003	0.028	0.028	0.005
			W440417	ASSAY	TB18031541	116.00	117.00	1.00	0.005	0.003	0.005	0.046	0.039	0.006
			W440421	ASSAY	TB18031542	117.00	118.00	1.00	0.003	0.003	0.003	0.029	0.029	0.006
			W440422	ASSAY	TB18031542	118.00	119.00	1.00	0.003	0.003	0.002	0.037	0.034	0.006
			W440423	ASSAY	TB18031542	119.00	120.00	1.00	0.007	0.003	0.006	0.049	0.045	0.005
			W440424	ASSAY	TB18031542	120.00	121.00	1.00	0.006	0.003	0.007	0.053	0.053	0.005
			W440425	ASSAY	TB18031542	121.00	122.00	1.00	0.010	0.003	0.011	0.100	0.082	0.007
			W440426	ASSAY	TB18031542	122.00	123.00	1.00	0.011	0.005	0.011	0.083	0.073	0.007
			W440427	ASSAY	TB18031542	123.00	124.00	1.00	0.017	0.010	0.018	0.146	0.120	0.008

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W440428	ASSAY	TB18031542	124.00	125.00	1.00	0.024	0.010	0.018	0.193	0.211	0.013
			W440429	ASSAY	TB18031542	125.00	126.00	1.00	0.019	0.006	0.019	0.152	0.129	0.008
			W440430	ASSAY	TB18031542	126.00	127.00	1.00	0.018	0.009	0.015	0.113	0.113	0.008
			W440431	ASSAY	TB18031542	127.00	128.00	1.00	0.013	0.005	0.019	0.149	0.106	0.008
			W440432	ASSAY	TB18031542	128.00	129.00	1.00	0.004	0.003	0.004	0.037	0.041	0.006
			W440433	ASSAY	TB18031542	129.00	130.00	1.00	0.002	0.003	0.002	0.023	0.033	0.006
			W440434	ASSAY	TB18031542	130.00	131.00	1.00	0.002	0.003	0.003	0.028	0.039	0.007
			W440435	ASSAY	TB18031542	131.00	132.00	1.00	0.018	0.008	0.015	0.115	0.103	0.008
			W440436	ASSAY	TB18031542	132.00	133.00	1.00	0.020	0.005	0.015	0.089	0.081	0.006
			W440437	ASSAY	TB18031542	133.00	134.00	1.00	0.025	0.003	0.008	0.046	0.043	0.006
			W440438	ASSAY	TB18031542	134.00	135.00	1.00	0.003	0.003	0.002	0.022	0.034	0.007
			W440440	ASSAY	TB18031542	135.00	136.00	1.00	0.004	0.003	0.004	0.044	0.048	0.008
			W440441	ASSAY	TB18031542	136.00	137.00	1.00	0.017	0.005	0.015	0.116	0.123	0.009
			W440442	ASSAY	TB18031542	137.00	138.00	1.00	0.005	0.003	0.003	0.024	0.020	0.006
			W440443	ASSAY	TB18031542	138.00	139.00	1.00	0.019	0.006	0.019	0.142	0.108	0.008
			W440444	ASSAY	TB18031542	139.00	140.00	1.00	0.026	0.011	0.022	0.157	0.112	0.007
			W440445	ASSAY	TB18031542	140.00	141.00	1.00	0.010	0.008	0.015	0.080	0.065	0.006
			W440446	ASSAY	TB18031542	141.00	142.00	1.00	0.021	0.008	0.019	0.137	0.125	0.007
			W440447	ASSAY	TB18031542	142.00	143.00	1.00	0.017	0.003	0.016	0.127	0.107	0.007
			W440448	ASSAY	TB18031542	143.00	144.00	1.00	0.009	0.003	0.019	0.101	0.055	0.006
			W440449	ASSAY	TB18031542	144.00	145.00	1.00	0.018	0.006	0.039	0.204	0.142	0.009
			W440450	ASSAY	TB18031542	145.00	146.00	1.00	0.011	0.003	0.030	0.171	0.118	0.007
			W440451	ASSAY	TB18031542	146.00	147.00	1.00	0.019	0.007	0.023	0.125	0.125	0.007
			W440452	ASSAY	TB18031542	147.00	148.00	1.00	0.017	0.006	0.025	0.165	0.133	0.008
			W440453	ASSAY	TB18031542	148.00	149.00	1.00	0.012	0.003	0.016	0.113	0.090	0.006
			W440454	ASSAY	TB18031542	149.00	150.00	1.00	0.010	0.005	0.025	0.202	0.138	0.009
			W440455	ASSAY	TB18031542	150.00	151.00	1.00	0.007	0.003	0.019	0.147	0.093	0.007
			W440456	ASSAY	TB18031542	151.00	152.00	1.00	0.005	0.003	0.005	0.049	0.046	0.005
			W440457	ASSAY	TB18031542	152.00	153.00	1.00	0.008	0.003	0.011	0.072	0.058	0.006
			W440458	ASSAY	TB18031542	153.00	154.00	1.00	0.001	0.003	0.002	0.019	0.028	0.005
			W440460	ASSAY	TB18031542	154.00	155.00	1.00	0.062	0.023	0.076	0.288	0.205	0.011
			W440461	ASSAY	TB18031542	155.00	156.00	1.00	0.020	0.007	0.033	0.148	0.101	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W440462	ASSAY	TB18031542	156.00	157.00	1.00	0.028	0.005	0.027	0.186	0.115	0.008
			W440463	ASSAY	TB18031542	157.00	158.00	1.00	0.009	0.003	0.011	0.090	0.067	0.006
			W440464	ASSAY	TB18031542	158.00	159.00	1.00	0.017	0.006	0.041	0.275	0.168	0.011
			W440465	ASSAY	TB18031542	159.00	160.00	1.00	0.015	0.006	0.008	0.043	0.050	0.005
			W440466	ASSAY	TB18031542	160.00	161.00	1.00	0.019	0.007	0.026	0.110	0.092	0.008
			W440467	ASSAY	TB18031542	161.00	162.00	1.00	0.018	0.009	0.017	0.110	0.101	0.008
			W440468	ASSAY	TB18031542	162.00	163.00	1.00	0.017	0.005	0.010	0.081	0.095	0.008
			W440469	ASSAY	TB18031542	163.00	164.00	1.00	0.019	0.009	0.014	0.089	0.086	0.007
			W440470	ASSAY	TB18031542	164.00	165.00	1.00	0.013	0.006	0.016	0.108	0.108	0.007
			W440471	ASSAY	TB18031542	165.00	166.00	1.00	0.006	0.003	0.008	0.052	0.053	0.006
			W440472	ASSAY	TB18031542	166.00	167.00	1.00	0.008	0.003	0.009	0.074	0.062	0.007
166.55	173.70	DIKE-Mafic	W440473	ASSAY	TB18031542	167.00	168.00	1.00	0.012	0.005	0.004	0.018	0.018	0.006
Dike- Mafic, fine grained, dark grey to black in colour			W440474	ASSAY	TB18031542	168.00	169.00	1.00	0.015	0.008	0.006	0.012	0.020	0.006
Weak-moderately magnetic (10-60 SI) no sulphides noted.			W440475	ASSAY	TB18031542	169.00	170.00	1.00	0.010	0.005	0.004	0.018	0.017	0.006
Upper Contacts are sharp, but low angle/parallel			W440476	ASSAY	TB18031542	170.00	170.89	0.89	0.005	0.003	0.002	0.017	0.014	0.006
TCA, lower contact undulating at 171.78. Weak chl alt in fractures.			W440477	ASSAY	TB18031542	170.89	171.78	0.89	0.004	0.003	0.002	0.021	0.014	0.006
Block of VT from 171-78-172.5m (lower contact is parallel TCA). VT block is unmineralized.			W440478	ASSAY	TB18031542	171.78	172.95	1.17	0.006	0.003	0.005	0.031	0.025	0.005
FG mafic rock from 172.5-173.7. Appears to be same injection, also moderately magnetic, fg and unmineralized.			W440480	ASSAY	TB18031542	172.95	173.75	0.80	0.005	0.003	0.003	0.019	0.015	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
173.70	193.99	GAB-Vt	W440481	ASSAY	TB18031542	173.75	174.38	0.63	0.004	0.003	0.004	0.035	0.032	0.005
		GABVT- medium grained to pegmatitic, green-grey in colour, massive to weakly foliated. Unit is affected by moderate chl-act alteration, with an interval of weak na- alteration from 184-185m. Unit is intruded by mafic dikes, the contacts of which are irregular and undulating, giving the rock a brecciated texture. Xenoliths of GAB in the fg mafic dikes are common. The Dikes begin at 179.03-183m are dark grey-black, fg and non magnetic. From 184-186m tonalite veinlets are common, (various angles (10-60). Some deformation shearing present from 183.5-184 (fol 25) Mineralization is disseminated to blebby and <1.% primarily py with lesser po and cpy, decreasing downhole	W440482	ASSAY	TB18031542	174.38	175.00	0.62	0.013	0.003	0.012	0.097	0.078	0.006
			W440483	ASSAY	TB18031542	175.00	176.00	1.00	0.011	0.003	0.009	0.053	0.054	0.007
			W440484	ASSAY	TB18031542	176.00	177.00	1.00	0.007	0.003	0.011	0.043	0.041	0.005
			W440485	ASSAY	TB18031542	177.00	178.01	1.01	0.015	0.007	0.014	0.105	0.088	0.006
			W440486	ASSAY	TB18031542	178.01	179.03	1.02	0.018	0.007	0.015	0.111	0.096	0.007
			W440487	ASSAY	TB18031542	179.03	180.03	1.00	0.013	0.007	0.008	0.041	0.023	0.006
			W440488	ASSAY	TB18031542	180.03	181.03	1.00	0.020	0.008	0.011	0.029	0.035	0.006
			W440489	ASSAY	TB18031542	181.03	182.00	0.97	0.047	0.020	0.008	0.039	0.040	0.004
			W440490	ASSAY	TB18031542	182.00	183.00	1.00	0.022	0.006	0.009	0.051	0.061	0.006
			W440491	ASSAY	TB18031542	183.00	184.00	1.00	0.014	0.003	0.012	0.079	0.079	0.006
			W440492	ASSAY	TB18031542	184.00	185.00	1.00	0.033	0.013	0.006	0.047	0.063	0.006
			W440493	ASSAY	TB18031542	185.00	186.00	1.00	0.054	0.020	0.005	0.024	0.029	0.004
			W440494	ASSAY	TB18031542	186.00	187.00	1.00	0.019	0.007	0.011	0.055	0.055	0.005
			W440495	ASSAY	TB18031542	187.00	188.00	1.00	0.023	0.008	0.011	0.046	0.030	0.004
			W440499	ASSAY	TB18034375	188.00	189.00	1.00	0.008	0.003	0.008	0.024	0.033	0.004
			W440500	ASSAY	TB18034375	189.00	190.00	1.00	0.033	0.008	0.016	0.055	0.051	0.005
			W440501	ASSAY	TB18034375	190.00	191.00	1.00	0.018	0.006	0.015	0.075	0.066	0.006
		W440502	ASSAY	TB18034375	191.00	192.00	1.00	0.010	0.003	0.010	0.062	0.057	0.006	
		W440503	ASSAY	TB18034375	192.00	193.00	1.00	0.026	0.021	0.013	0.071	0.051	0.005	
		W440504	ASSAY	TB18034375	193.00	194.00	1.00	0.014	0.005	0.009	0.050	0.043	0.005	
193.99	195.45	DIKE-Mafic	W440505	ASSAY	TB18034375	194.00	194.72	0.72	0.001	0.003	0.002	0.012	0.010	0.003
		Dike- Mafic, fine grained, dark grey-black in colour, non magnetic (<1 SI) Sharp (but angular) upper and lower contacts, Alteration (bleaching, weak k) that resembles laminations or layering, though they cross cut one another and are possible fracture related. <.5% pyrite-disseminated and infilling fractures.	W440506	ASSAY	TB18034375	194.72	195.45	0.73	0.001	0.003	0.007	0.029	0.014	0.003

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
195.45	203.52	GAB-Vt	W440507	ASSAY	TB18034375	195.45	196.23	0.78	0.030	0.021	0.003	0.026	0.042	0.006
GABVT- medium grained by pegmatitic, pale green to dark green-grey massive. Unit is affected by moderate chl-act alteration and weak na alteration from upper contact to 199 where na alt drops off. In upper 2 meters, mm-cm scale mafic dikes. Mineralization is mostly disseminated to bleby pyrite (<.5%) with trace po and trace cpy. Sharp lower contact with mafic dike			W440508	ASSAY	TB18034375	196.23	197.00	0.77	0.040	0.015	0.011	0.040	0.049	0.005
			W440509	ASSAY	TB18034375	197.00	198.00	1.00	0.007	0.003	0.007	0.063	0.059	0.005
			W440510	ASSAY	TB18034375	198.00	199.00	1.00	0.028	0.005	0.009	0.048	0.051	0.005
			W440511	ASSAY	TB18034375	199.00	200.00	1.00	0.013	0.003	0.015	0.085	0.075	0.006
			W440512	ASSAY	TB18034375	200.00	201.00	1.00	0.010	0.003	0.006	0.046	0.043	0.005
			W440513	ASSAY	TB18034375	201.00	202.00	1.00	0.032	0.010	0.005	0.034	0.036	0.005
			W440514	ASSAY	TB18034375	202.00	202.70	0.70	0.003	0.003	0.004	0.038	0.037	0.005
			W440515	ASSAY	TB18034375	202.70	203.52	0.82	0.007	0.003	0.006	0.047	0.046	0.005
203.52	208.75	DIKE-Mafic	W440516	ASSAY	TB18034375	203.52	204.26	0.74	0.018	0.008	0.006	0.023	0.026	0.005
Dike- fine grained, mafic, dark grey, non-magnetic. Sharp upper (30) contact, gab xenoliths and blocks are common (10-60cm). Weak chlorite alteration in fractures, Trace pyrite infilling hairline fractures.			W440518	ASSAY	TB18034375	204.26	205.00	0.74	0.021	0.012	0.006	0.028	0.029	0.005
			W440519	ASSAY	TB18034375	205.00	206.00	1.00	0.023	0.011	0.007	0.021	0.026	0.005
			W440520	ASSAY	TB18034375	206.00	207.00	1.00	0.018	0.009	0.005	0.020	0.024	0.005
			W440521	ASSAY	TB18034375	207.00	207.88	0.88	0.028	0.016	0.011	0.051	0.031	0.006
			W440522	ASSAY	TB18034375	207.88	208.75	0.87	0.018	0.008	0.008	0.031	0.023	0.006
			208.75	221.66	GAB-Vt	W440523	ASSAY	TB18034375	208.75	209.37	0.62	0.008	0.003	0.014
GABVT Fine to coarse grained, green to grey in colour. Unit is affected by moderate chlorite-actinolite alteration with intervals of weak na-alteration typically associated with fractures and veinlets. Mineralization is around .5% and occurs as fine disseminations of blebs of pyrite (.2) with po (.2) and lesser cpy. Unit is cut by multiple mafic dikes with irregular contacts at 210-210.56m, and 215.09-215.85. Dikes are fine grained, non magnetic and contain trace pyrite. Sharp lower contact with dikes			W440524	ASSAY	TB18034375	209.37	210.00	0.63	0.008	0.003	0.012	0.057	0.048	0.006
			W440525	ASSAY	TB18034375	210.00	211.00	1.00	0.018	0.010	0.009	0.048	0.043	0.006
			W440526	ASSAY	TB18034375	211.00	212.00	1.00	0.035	0.012	0.014	0.073	0.065	0.006
			W440527	ASSAY	TB18034375	212.00	213.00	1.00	0.008	0.003	0.006	0.046	0.043	0.005
			W440528	ASSAY	TB18034375	213.00	214.04	1.04	0.024	0.011	0.002	0.026	0.031	0.004
			W440529	ASSAY	TB18034375	214.04	215.09	1.05	0.011	0.003	0.010	0.063	0.049	0.005
			W440530	ASSAY	TB18034375	215.09	216.00	0.91	0.013	0.006	0.010	0.030	0.023	0.005
			W440531	ASSAY	TB18034375	216.00	217.00	1.00	0.011	0.003	0.012	0.060	0.058	0.006
			W440532	ASSAY	TB18034375	217.00	218.00	1.00	0.001	0.003	0.003	0.021	0.024	0.005
			W440533	ASSAY	TB18034375	218.00	219.00	1.00	0.010	0.003	0.006	0.039	0.048	0.006
			W440534	ASSAY	TB18034375	219.00	220.00	1.00	0.008	0.003	0.005	0.060	0.061	0.006
			W440535	ASSAY	TB18034375	220.00	220.83	0.83	0.006	0.003	0.012	0.056	0.047	0.005
			W440536	ASSAY	TB18034375	220.83	221.66	0.83	0.007	0.006	0.017	0.054	0.057	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
221.66	223.82	DIKE-Mafic	W440538	ASSAY	TB18034375	221.66	222.73	1.07	0.017	0.007	0.004	0.012	0.018	0.004
		Dike- Mafic with tonalite at contacts	W440539	ASSAY	TB18034375	222.73	223.79	1.06	0.014	0.006	0.004	0.020	0.019	0.005
		Fine grained, dark grey colour with weak chl and carbonate in fractures. Trace pyrite. Fine-medium grained tonalite at upper and lower contacts.	W440540	ASSAY	TB18034375	223.79	224.40	0.61	0.007	0.003	0.003	0.019	0.026	0.003
223.82	228.00	GAB-Vt	W440541	ASSAY	TB18034375	224.40	225.00	0.60	0.014	0.005	0.016	0.081	0.071	0.005
		GABVT	W440542	ASSAY	TB18034375	225.00	226.00	1.00	0.011	0.003	0.005	0.028	0.036	0.003
		medium to coarse grained, grey to green in colour. Brecciated? VT unit is affected by moderate chl-act alteration, tonalite is relatively fresh with weak spotty k alt.	W440543	ASSAY	TB18034375	226.00	227.00	1.00	0.027	0.009	0.004	0.030	0.043	0.004
		Unit is intruded by multiple cm scale biotite rich tonalite injections with diffuse and irregular contacts, giving the rock a brecciated appearance. Lower meter exhibits rounded blocvks of VT with tonalite matrix. Mineralization is trace pyrite.	W440544	ASSAY	TB18034375	227.00	228.00	1.00	0.008	0.003	0.009	0.054	0.055	0.004



Detailed Log Report
Hole Number 18-002

Project Name:	LDI - Mine	Primary Coordinates Grid:	MINE:	Hole Status:	Completed
Project Code:	LDI MINE	North:	30,342.48	Length:	207.00
Location:		East:	31,774.04	Hole Size:	NQ
Start Date:	Jan 23, 2018	Elev:	498.60	Hole Type:	DDH
Completed Date:	Jan 26, 2018	Collar Dip:	-90.00	Casing:	Yes
Contractor:	Orbit Garant	Collar Az:	360.00	Cemented:	Yes
Core Storage:	Lac des Iles Minesite-cross piles	Destination Coordinates Grid:	UTM83-16	Collar Survey:	N
Units:	METRIC	North:	5,447,951.12	Plugged:	N
Start Log:	Feb 05, 2018	East:	309,092.76	Multishot Survey:	N
End Log:	Feb 06, 2018	Elev:	498.60	Pulse EM Survey:	N
Logged By 1:	Claire McGuinness	Claim:	252	EOH:	207.00
				Artesian Cond:	No
				Abandon Reason:	

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	21.20	OB												

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
21.20	89.60	NOR	W440545	ASSAY	TB18034375	26.00	27.00	1.00	0.001	0.003	0.001	0.007	0.033	0.006
<p>NOR- medium to coarse grained, purple to green in colour, massive to weakly foliated. Upper 20 me (20-40m) exhibit some pocky texture, dissolution of pyx? Generally pink-purple colour and weak chl +/- carbonate coating fractures- low angle/parallel TCA fractures are common. Rare intervals of increased alteration (mod chl-act, weak na) in zones with more abundant fracturing. No sulphides are noted.</p>			W440546	ASSAY	TB18034375	27.00	28.00	1.00	0.001	0.003	0.001	0.008	0.034	0.005
			W440547	ASSAY	TB18034375	28.00	29.00	1.00	0.001	0.003	0.001	0.009	0.038	0.005
			W440548	ASSAY	TB18034375	44.00	45.00	1.00	0.001	0.003	0.001	0.007	0.026	0.004
			W440549	ASSAY	TB18034375	45.00	46.00	1.00	0.001	0.003	0.001	0.009	0.030	0.005
			W440550	ASSAY	TB18034375	46.00	47.00	1.00	0.001	0.003	0.001	0.007	0.027	0.005
			W440551	ASSAY	TB18034375	65.00	66.00	1.00	0.001	0.003	0.001	0.005	0.043	0.007
			W440552	ASSAY	TB18034375	66.00	67.00	1.00	0.001	0.003	0.001	0.006	0.050	0.008
			W440553	ASSAY	TB18034375	67.00	68.00	1.00	0.001	0.003	0.001	0.006	0.043	0.007
			W440554	ASSAY	TB18034375	68.00	69.00	1.00	0.001	0.003	0.001	0.006	0.036	0.006
			W440555	ASSAY	TB18034375	83.00	84.00	1.00	0.001	0.003	0.001	0.005	0.051	0.009
W440556	ASSAY	TB18034375	84.00	85.00	1.00	0.001	0.003	0.001	0.005	0.048	0.008			
W440558	ASSAY	TB18034375	85.00	86.00	1.00	0.001	0.003	0.001	0.005	0.048	0.008			

89.60 92.39 **DIKE-Mafic**

Dike- Mafic, dark grey, aphanitic. 2 intervals separated by xenolith of altered NOR. First intersection from 89.6-91.65m. Upper contact high angle (90), lower contact is lobate and angular. Low angle fracturing present in addition to trace disseminated pyrite at lower contact. Second mafic dike present from 91.12-92.39 has sharper contacts (45) and pyrite infilling fractures.

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
92.39	207.00	NOR	W440559	ASSAY	TB18034375	108.00	109.00	1.00	0.001	0.003	0.001	0.007	0.036	0.006
		NOR	W440560	ASSAY	TB18034375	109.00	110.00	1.00	0.001	0.003	0.001	0.008	0.038	0.006
		medium grained, homogenous, purple to green in colour.	W440561	ASSAY	TB18034375	110.00	111.00	1.00	0.001	0.003	0.001	0.008	0.039	0.006
		Unit is affected by weak chl alteration (typically coating low angle fractures, +/- carbonate). Interval of increased alteration (strong chl-act) from	W440562	ASSAY	TB18034375	111.00	112.00	1.00	0.001	0.003	0.001	0.008	0.039	0.006
		100.9-117.74- this is especially apparent at rims of pyx crystals, weak pinking of feldspars still visible.	W440563	ASSAY	TB18034375	130.00	131.00	1.00	0.001	0.003	0.001	0.008	0.037	0.006
		This interval is competent wth few fractures, reason for increased alteration unclear. Contacts between strongly and weakly altered NOR are gradational.	W440564	ASSAY	TB18034375	131.00	132.00	1.00	0.001	0.003	0.001	0.007	0.036	0.006
			W440565	ASSAY	TB18034375	132.00	133.00	1.00	0.001	0.003	0.001	0.007	0.040	0.007
			W440566	ASSAY	TB18034375	133.00	134.00	1.00	0.001	0.003	0.001	0.008	0.035	0.006
			W440567	ASSAY	TB18034375	152.00	153.00	1.00	0.001	0.003	0.001	0.008	0.032	0.006
		From 185-downhole, some intersections ~20cm that resemble VT- these do not have sharp contacts, they are diffuse and grain size variation is noted	W440568	ASSAY	TB18034375	153.00	154.00	1.00	0.001	0.003	0.001	0.008	0.033	0.006
		(medium-coarse) No sulphide or alteration change in these zones. mm scale tonalite veinlets throughout.	W440569	ASSAY	TB18034375	154.00	155.00	1.00	0.001	0.003	0.001	0.008	0.033	0.006
		Lower 90cm of this unit are pegmatitic-norite, but again, the contact between this and the homegenous NOR are gradational.	W440570	ASSAY	TB18034375	155.00	156.00	1.00	0.001	0.003	0.001	0.008	0.032	0.005
		No sulphides are noted in this unit.	W440571	ASSAY	TB18034375	174.00	175.00	1.00	0.001	0.003	0.001	0.008	0.032	0.006
			W440572	ASSAY	TB18034375	175.00	176.00	1.00	0.001	0.003	0.001	0.008	0.035	0.006
			W440573	ASSAY	TB18034375	176.00	177.00	1.00	0.001	0.003	0.001	0.009	0.032	0.006
			W440577	ASSAY	TB18054023	177.00	178.00	1.00	0.001	0.003	0.001	0.008	0.032	0.006
			W440578	ASSAY	TB18054023	188.00	189.00	1.00	0.007	0.003	0.002	0.013	0.033	0.007
			W440579	ASSAY	TB18054023	189.00	190.00	1.00	0.002	0.003	0.001	0.010	0.035	0.006
			W440580	ASSAY	TB18054023	190.00	191.00	1.00	0.001	0.003	0.002	0.009	0.038	0.006
			W440581	ASSAY	TB18054023	205.00	206.00	1.00	0.001	0.003	0.001	0.010	0.033	0.006
			W440582	ASSAY	TB18054023	206.00	207.00	1.00	0.001	0.003	0.001	0.009	0.024	0.004



Detailed Log Report
Hole Number 18-003

Project Name:	LDI - Mine	Primary Coordinates Grid:	MINE:	Hole Status:	Completed
Project Code:	LDI MINE	North:	30,447.28	Length:	195.00
Location:		East:	31,680.57	Hole Size:	NQ
Start Date:	Jan 27, 2018	Elev:	498.48	Hole Type:	DDH
Completed Date:	Jan 29, 2018	Collar Dip:	-90.00	Casing:	Yes
Contractor:	Orbit Garant	Collar Az:	360.00	Cemented:	Yes
Core Storage:	Lac des Iles Minesite-cross piles	Destination Coordinates Grid:	UTM83-16	Collar Survey:	N
Units:	METRIC	North:	5,448,058.65	Plugged:	N
Start Log:	Feb 08, 2018	East:	309,002.44	Multishot Survey:	N
End Log:	Feb 09, 2018	Elev:	498.48	Pulse EM Survey:	N
Logged By 1:	Andrew Nyman	Claim:	252	EOH:	195.00
				Artesian Cond:	No
				Abandon Reason:	

Detailed Lithology														
From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	33.00	OB												
33.00	42.00	DIKE-Tonalite	W440583	ASSAY	TB18054023	41.00	42.00	1.00	0.004	0.003	0.003	0.006	0.003	0.001
<p>TON- Medium to fine grained grey to whitish massive unit that has pink banding due to the mod fract cont K alt. Unit becomes fine grained at lower contact. There is a weak zone of py min (~.3%) where the unit becomes fine grained (41.4m) the rest of the unit is barren.</p>														

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
42.00	96.61	GAB	W440584	ASSAY	TB18054023	42.00	43.00	1.00	0.001	0.003	0.001	0.003	0.027	0.004
GAB medium grained, greenish speckled with purple. Feldspars a purplish hue. There is a zone of talc? that rims in areas becoming interstitial. Unit has weak patchy Na alt. UC is undulose. There is a pseudo breccaited zone (71-75m) that is crosscut by TON veinlets that are choked with Kspar, vein boundaries are subrounded with some net textured veins possible clasts were observed within them. There is a weakly develeoped foliation trending 60-70 DTCAUnit is barren no mineralization was observed			W440585	ASSAY	TB18054023	43.00	44.00	1.00	0.001	0.003	0.001	0.004	0.029	0.004
			W440586	ASSAY	TB18054023	58.00	59.00	1.00	0.001	0.003	0.001	0.007	0.030	0.005
			W440587	ASSAY	TB18054023	59.00	60.00	1.00	0.001	0.003	0.001	0.007	0.029	0.005
			W440588	ASSAY	TB18054023	60.00	61.00	1.00	0.001	0.003	0.001	0.005	0.029	0.005
			W440589	ASSAY	TB18054023	61.00	62.00	1.00	0.001	0.003	0.001	0.008	0.031	0.005
			W440590	ASSAY	TB18054023	80.00	81.00	1.00	0.001	0.003	0.001	0.007	0.027	0.005
			W440591	ASSAY	TB18054023	81.00	82.00	1.00	0.001	0.003	0.001	0.006	0.027	0.005
			W440592	ASSAY	TB18054023	82.00	83.00	1.00	0.001	0.003	0.001	0.006	0.021	0.004
W440593	ASSAY	TB18054023	83.00	84.00	1.00	0.001	0.003	0.002	0.006	0.023	0.004			
96.61	103.46	NOR	W440594	ASSAY	TB18054023	98.00	99.00	1.00	0.001	0.003	0.001	0.012	0.052	0.007
NOR- Medium grained purplish weakly altered massive unit. There is trace patchy diss po and cpy min. UC is sharp at 25 DTCA along fracture. Minor intersections of cm scale VT.			W440596	ASSAY	TB18054023	99.00	100.00	1.00	0.002	0.003	0.001	0.019	0.064	0.008
			W440597	ASSAY	TB18054023	100.00	101.00	1.00	0.002	0.003	0.002	0.022	0.067	0.008
			GBNR medium grained with minor variation greenish to purple unit. Wk to mod semi-perv chl/act with weak patchy Na and K alt as well as moderate to weak rimming to interstitial talc?. UC is undulose denoted by a change in alt. The unit is crosscut by a TON dike (114.08-114.25m) and cm scale veinlets. There is trace min proximal to UC with NOR, ending within 1.5m. Overall unit is barren											
103.46	123.00	GBNR												
123.00	131.22	NOR	W440598	ASSAY	TB18054023	124.00	125.00	1.00	0.001	0.003	0.002	0.015	0.034	0.005
NOR- Medium grained with minor patches of fine grained, purplish grey. Weak chl/act alteration. UC is gradational denoted by a change in alteration. There is a series of low angle joints trending 10-15DTCA with stg chl coating from 127.45-128.6m. There is trace po and cpy within.			W440599	ASSAY	TB18054023	125.00	126.00	1.00	0.001	0.003	0.001	0.015	0.038	0.005
			W440600	ASSAY	TB18054023	126.00	127.00	1.00	0.001	0.003	0.001	0.009	0.035	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
131.22	195.00	GBNR	W440601	ASSAY	TB18054023	141.00	142.00	1.00	0.001	0.003	0.001	0.007	0.030	0.004
GBNR medium grained with minor variation greenish to purple unit. Wk to mod semi-perv chl/act as well as moderate to weak rimming to interstitial talc? and weak patchy NA alt. UC is gradational denoted by a change in alt. The unit is crosscut by a series of mafic dikes (134.26-135m, 175-175.42m, 190.31-191.06m, 192.20-193.87m) as well as cm scale dykelets. No observable mineralization within unit			W440602	ASSAY	TB18054023	142.00	143.00	1.00	0.001	0.003	0.001	0.005	0.036	0.006
			W440603	ASSAY	TB18054023	143.00	144.00	1.00	0.001	0.008	0.001	0.002	0.043	0.007
			W440604	ASSAY	TB18054023	158.00	159.00	1.00	0.001	0.003	0.004	0.005	0.032	0.006
			W440605	ASSAY	TB18054023	159.00	160.00	1.00	0.001	0.003	0.001	0.005	0.030	0.005
			W440606	ASSAY	TB18054023	160.00	161.00	1.00	0.001	0.003	0.001	0.004	0.027	0.005
			W440607	ASSAY	TB18054023	161.00	162.00	1.00	0.001	0.003	0.001	0.004	0.028	0.005
			W440608	ASSAY	TB18054023	179.00	180.00	1.00	0.001	0.003	0.001	0.005	0.030	0.005
			W440609	ASSAY	TB18054023	180.00	181.00	1.00	0.001	0.003	0.001	0.005	0.032	0.005
			W440610	ASSAY	TB18054023	181.00	182.00	1.00	0.001	0.003	0.001	0.006	0.034	0.006
			W440611	ASSAY	TB18054023	182.00	183.00	1.00	0.001	0.003	0.001	0.006	0.038	0.006



**Detailed Log Report
Hole Number 18-004**

Project Name: LDI - Mine	Primary Coordinates Grid: MINE:	Hole Status: Completed
Project Code: LDI MINE	North: 30,544.14	Length: 204.00
Location:	East: 31,551.61	Hole Size: NQ
Start Date: Jan 30, 2018	Elev: 502.42	Hole Type: DDH
Completed Date: Feb 02, 2018	Collar Dip: -75.50	Casing: No
Contractor: Orbit Garant	Collar Az: 0.51	Cemented: Yes
Core Storage: Lac des Iles Minesite-cross piles	Destination Coordinates Grid: UTM83-16	Collar Survey: N Plugged: N
Units: METRIC	North: 5,448,159.29	Multishot Survey: N Pulse EM Survey: N
Start Log: Feb 10, 2018	East: 308,876.40	EOH: 204.00
End Log: Feb 11, 2018	Elev: 502.42	Artesian Cond: No
Logged By 1: Andrew Nyman	Claim: 252	Abandon Reason:

Detailed Lithology															
From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %	
0.00	6.00	OB													

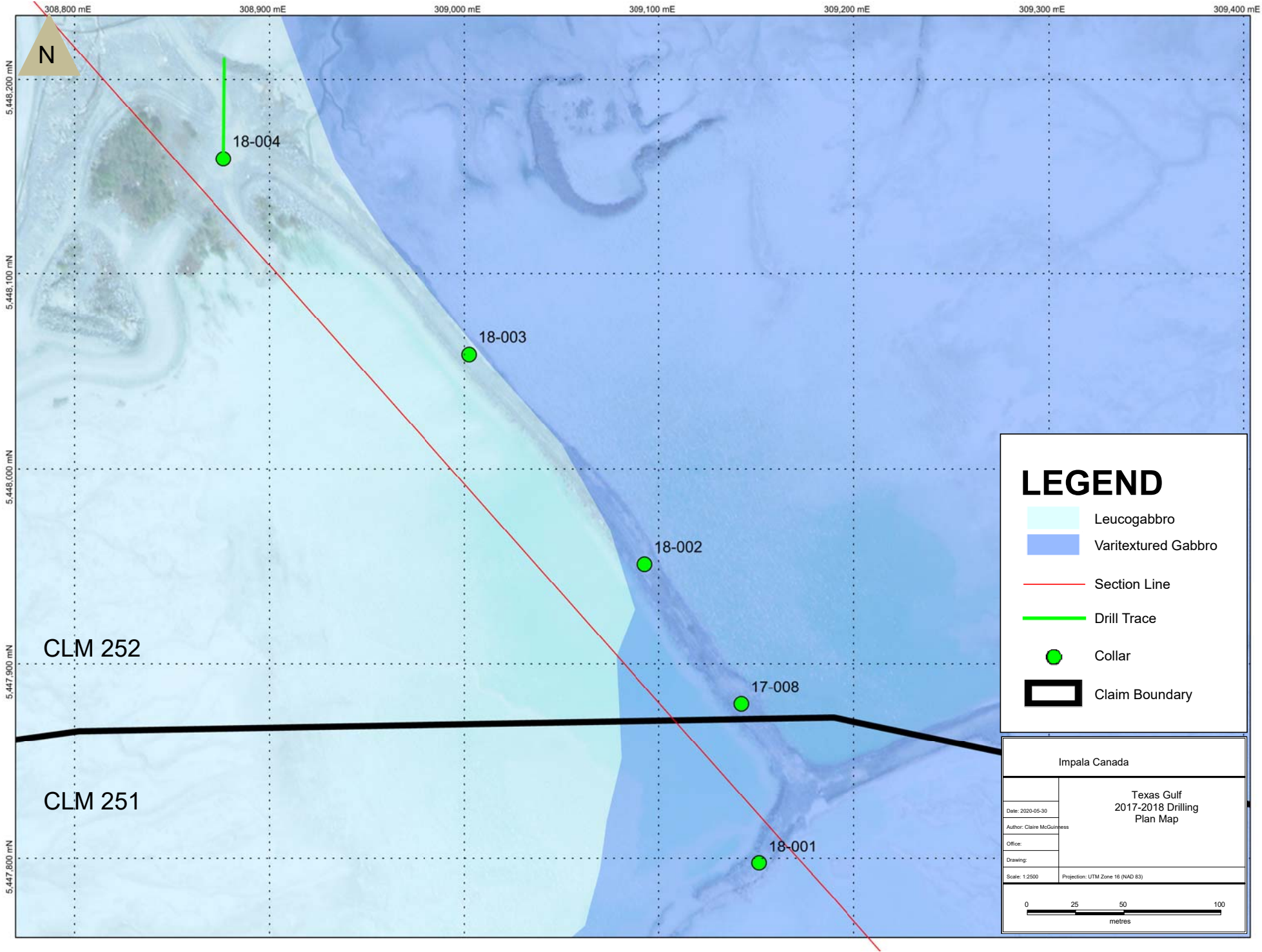
From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %		
6.00	200.18	GAB	W440612	ASSAY	TB18054023	20.00	21.00	1.00	0.001	0.003	0.001	0.006	0.019	0.003		
<p>GAB- Medium grained speckled greenish to whitish with minor purple intervals. The unit is crosscut by multiple generations of dikes there are mafic dikes (30-30.34, 120.941-121.45m) and other cm scale mafics ones as well as TON (93.25-95.15m), this one was parallel to the core axis and is pinches and swelled from a vein to roughly have the core. There was many cm scale dyklets as well. The only min observed in the unit as in the secondary mafic dyke but it was disseminated py only, no other sulphides were visible in core.</p> <p>The alteration of the unit transitioned from mod to stg Chl/Act to zones of weak, there was also zones of patchy Na alt with marginal K alt within as well.</p>			W440613	ASSAY	TB18054023	21.00	22.00	1.00	0.001	0.003	0.002	0.005	0.020	0.003		
			W440614	ASSAY	TB18054023	22.00	23.00	1.00	0.001	0.003	0.001	0.008	0.022	0.004		
			W440616	ASSAY	TB18054023	23.00	24.00	1.00	0.001	0.003	0.001	0.005	0.021	0.003		
			W440617	ASSAY	TB18054023	38.00	39.00	1.00	0.001	0.003	0.001	0.006	0.023	0.004		
			W440618	ASSAY	TB18054023	39.00	40.00	1.00	0.001	0.003	0.001	0.003	0.018	0.003		
			W440619	ASSAY	TB18054023	40.00	41.00	1.00	0.001	0.003	0.001	0.005	0.017	0.003		
			W440620	ASSAY	TB18054023	64.00	65.00	1.00	0.001	0.003	0.001	0.006	0.020	0.003		
			W440621	ASSAY	TB18054023	65.00	66.00	1.00	0.001	0.003	0.001	0.006	0.020	0.003		
			W440622	ASSAY	TB18054023	66.00	67.00	1.00	0.001	0.003	0.001	0.006	0.020	0.003		
			W440623	ASSAY	TB18054023	67.00	68.00	1.00	0.001	0.003	0.001	0.006	0.021	0.003		
			W440624	ASSAY	TB18054023	77.00	78.00	1.00	0.001	0.003	0.001	0.006	0.022	0.004		
			W440625	ASSAY	TB18054023	78.00	79.00	1.00	0.001	0.003	0.001	0.007	0.023	0.004		
			W440626	ASSAY	TB18054023	79.00	80.00	1.00	0.001	0.003	0.001	0.007	0.023	0.004		
			W440627	ASSAY	TB18054023	80.00	81.00	1.00	0.001	0.003	0.002	0.007	0.022	0.004		
			W440628	ASSAY	TB18054023	103.00	104.00	1.00	0.001	0.003	0.003	0.011	0.029	0.004		
			W440629	ASSAY	TB18054023	104.00	105.00	1.00	0.001	0.003	0.001	0.007	0.024	0.004		
			W440630	ASSAY	TB18054023	105.00	106.00	1.00	0.001	0.003	0.001	0.007	0.026	0.004		
			W440631	ASSAY	TB18054023	106.00	107.00	1.00	0.001	0.003	0.001	0.007	0.023	0.004		
			W440632	ASSAY	TB18054023	120.00	121.00	1.00	0.001	0.003	0.001	0.004	0.023	0.004		
			W440633	ASSAY	TB18054023	121.00	122.00	1.00	0.001	0.003	0.001	0.003	0.014	0.004		
			W440634	ASSAY	TB18054023	122.00	123.00	1.00	0.001	0.003	0.001	0.006	0.023	0.004		
			W440636	ASSAY	TB18054023	123.00	124.00	1.00	0.001	0.003	0.001	0.006	0.027	0.004		
			W440637	ASSAY	TB18054023	142.00	143.00	1.00	0.001	0.003	0.001	0.007	0.029	0.005		
W440638	ASSAY	TB18054023	143.00	144.00	1.00	0.001	0.003	0.001	0.006	0.028	0.004					
W440639	ASSAY	TB18054023	144.00	145.00	1.00	0.001	0.003	0.001	0.004	0.027	0.004					
W440640	ASSAY	TB18054023	145.00	146.00	1.00	0.001	0.003	0.001	0.005	0.027	0.004					
W440641	ASSAY	TB18054023	160.00	161.00	1.00	0.001	0.003	0.001	0.005	0.020	0.003					
W440642	ASSAY	TB18054023	161.00	162.00	1.00	0.001	0.003	0.001	0.005	0.020	0.003					
W440643	ASSAY	TB18054023	162.00	163.00	1.00	0.001	0.003	0.001	0.002	0.019	0.003					
W440644	ASSAY	TB18054023	177.00	178.00	1.00	0.001	0.003	0.003	0.005	0.016	0.003					

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			W440645	ASSAY	TB18054023	178.00	179.00	1.00	0.001	0.003	0.001	0.005	0.017	0.003
			W440646	ASSAY	TB18054023	179.00	180.00	1.00	0.001	0.003	0.001	0.005	0.017	0.003
			W440647	ASSAY	TB18054023	180.00	181.00	1.00	0.001	0.003	0.001	0.005	0.016	0.003
			W440648	ASSAY	TB18054023	195.00	196.00	1.00	0.001	0.003	0.001	0.005	0.015	0.003
			W440649	ASSAY	TB18054023	196.00	197.00	1.00	0.001	0.003	0.001	0.006	0.021	0.003
			W440650	ASSAY	TB18054023	197.00	198.00	1.00	0.001	0.003	0.002	0.013	0.029	0.004
			W440651	ASSAY	TB18054023	198.00	199.00	1.00	0.003	0.003	0.005	0.024	0.072	0.005

200.18 204.00 **GBNR**

GBNR- Medium grained purplish green massive. UC with GAB is undulose and denoted by a cvhnage in alteration. Unit is massive with no visible sulphides.

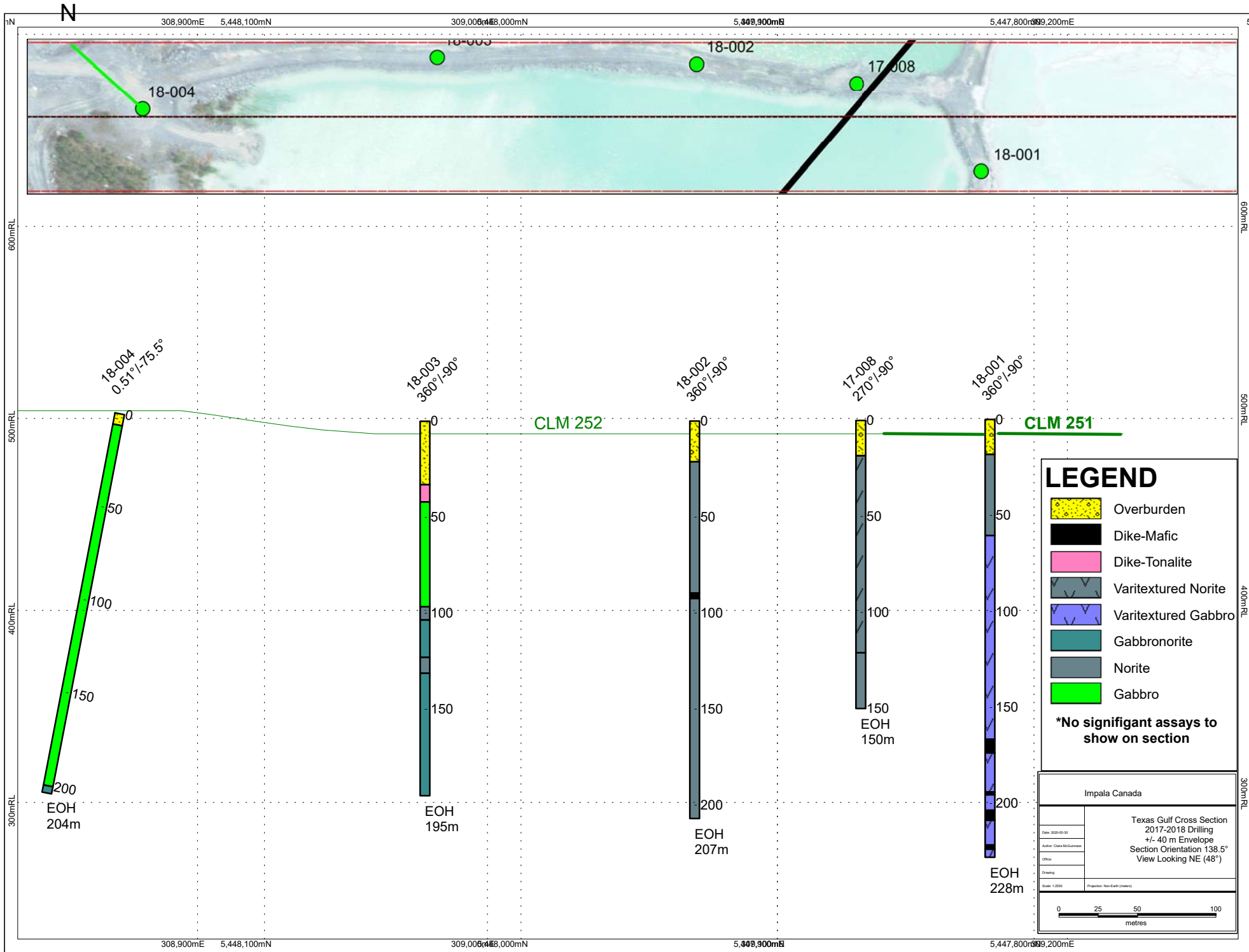
Appendix C: Drill plan and cross sections



LEGEND

- Leucogabbro
- Varitextured Gabbro
- Section Line
- Drill Trace
- Collar
- Claim Boundary

Impala Canada	
Date: 2020-05-30 Author: Claire McGuinness Office: Drawing:	Texas Gulf 2017-2018 Drilling Plan Map
Scale: 1:2500	Projection: UTM Zone 18 (NAD 83)



Appendix D: Assay Certificates



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: LAC DES ILES MINES LTD. (NAP)
 556 TENTH AVE
 THUNDER BAY ON P7B 2R2

Page: 1
 Total # Pages: 3 (A)
 Plus Appendix Pages
 Finalized Date: 29-JAN-2018
 Account: MZI

CERTIFICATE TB18009663

Project: 18-101
 P.O. No.: 182449
 This report is for 66 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-JAN-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
----------------------------------	-----------------------------------	-----------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
 556 TENTH AVE
 THUNDER BAY ON P7B 2R2

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Page: 2 - A
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Project: 18-101

CERTIFICATE OF ANALYSIS TB18009663

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
W439776		1.45	7	20	7	1280	1450	77	6.39	0.5		
W439777		0.04	91	358	715	4430	4290	116	3.84	1.8		
W439778		2.51	8	30	<5	1250	1810	88	6.62	0.5		
W439779		2.33	5	13	<5	792	797	64	6.76	<0.5		
W439780		2.51	6	11	<5	845	908	74	7.33	<0.5		
W439781		1.89	6	8	5	581	782	78	8.88	<0.5		
W439782		2.79	11	14	5	1270	1290	95	9.08	0.5		
W439783		2.44	8	16	9	794	795	61	5.55	<0.5		
W439784		2.35	5	8	6	660	694	56	5.38	<0.5		
W439785		2.47	10	17	8	919	995	70	6.21	<0.5		
W439786		2.54	18	26	11	1660	1610	84	5.69	0.7		
W439787		2.47	9	14	<5	1170	1350	77	5.75	<0.5		
W439788		2.26	6	9	<5	660	642	54	5.32	<0.5		
W439789		2.23	6	8	6	673	625	51	5.01	<0.5		
W439790		2.00	5	10	5	731	775	65	6.02	<0.5		
W439791		2.41	5	6	<5	523	647	56	5.48	<0.5		
W439792		1.29	8	15	9	941	997	61	4.94	<0.5		
W439793		2.55	20	35	13	1895	1695	81	5.37	1.0		
W439794		0.04	88	592	313	4480	4310	108	3.73	1.8		
W439873		1.53	<1	<1	<5	5	4	<1	11.40	<0.5		
W439874		0.04	464	1820	398	105	206	20	2.23	<0.5		
W439875		2.60	4	3	<5	490	795	98	11.45	<0.5		
W439876		2.67	7	7	<5	731	959	95	10.05	<0.5		
W439877		2.65	4	3	<5	605	862	105	11.20	<0.5		
W439878		2.79	14	10	6	1710	1735	130	11.40	0.9		
W439879		2.82	14	10	5	1955	1880	134	11.75	0.8		
W439880		2.46	10	7	<5	1290	1375	118	11.30	0.7		
W439881		2.36	12	9	5	1735	1710	129	11.80	0.8		
W439882		2.73	8	6	6	1125	1215	117	11.75	0.6		
W439883		2.69	13	12	7	1555	1415	112	9.71	0.9		
W439884		2.63	25	33	11	3130	2890	127	6.46	1.5		
W439885		2.68	19	13	8	2450	2220	147	11.65	1.2		
W439886		2.73	18	20	7	2240	2200	139	11.40	1.1		
W439887		2.61	16	15	8	2070	2020	133	11.35	1.1		
W439888		2.63	16	15	9	1870	1810	130	11.65	0.9		
W439889		2.92	2	1	<5	545	855	108	12.25	<0.5		
W439890		2.36	5	4	<5	572	834	104	11.30	<0.5		
W439891		2.83	2	1	<5	474	802	107	12.30	<0.5		
W439892		2.74	4	1	<5	387	734	103	11.65	<0.5		
W439893		0.08	285	3440	838	>10000	>10000	934	3.78	4.0	15900	45200



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 P7B 2R2

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 Plus Appendix Pages
 Finalized Date: 29-JAN-2018
 Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18009663

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W439894		2.33	3	2	<5	514	843	107	11.90	<0.5		
W439895		2.70	2	2	<5	425	758	108	12.00	<0.5		
W439896		2.42	4	1	<5	373	744	98	11.40	<0.5		
W439897		2.43	5	1	<5	545	855	106	11.70	<0.5		
W439898		2.75	7	2	<5	619	850	108	11.70	<0.5		
W439899		2.87	3	1	<5	709	991	114	12.60	<0.5		
W439900		2.97	6	5	5	948	1030	110	11.35	<0.5		
W439901		3.00	10	6	<5	914	1015	104	10.70	<0.5		
W439902		3.11	7	6	<5	1175	1275	114	11.35	0.6		
W439903		3.22	8	8	5	1105	1120	107	10.30	0.6		
W439904		2.90	3	2	<5	633	872	108	11.85	0.5		
W439905		3.43	6	6	<5	720	894	105	11.45	<0.5		
W439906		3.02	5	2	<5	720	946	111	12.30	0.6		
W439907		3.20	4	2	<5	691	909	112	12.15	<0.5		
W439908		2.82	5	4	<5	756	912	110	11.95	0.6		
W439909		2.86	8	2	<5	615	808	108	12.05	<0.5		
W439910		2.89	6	6	<5	574	715	95	9.98	0.5		
W439911		2.73	<1	<1	<5	159	148	54	3.80	<0.5		
W439912		2.43	1	<1	<5	167	125	51	3.49	<0.5		
W439913		1.18	3	<1	<5	1	<1	<1	13.30	<0.5		
W439914		2.82	3	1	<5	498	602	96	9.92	0.5		
W439915		2.85	2	1	<5	426	658	102	11.20	<0.5		
W439916		2.82	2	2	<5	447	660	102	11.05	<0.5		
W439917		2.56	12	6	5	1580	1500	133	11.85	1.2		
W439918		2.37	14	6	<5	1630	1635	137	12.20	1.2		
W439919		2.64	7	3	<5	956	1185	124	12.70	0.8		



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Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18009663

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-32	CRU-QC	LOG-21
	PUL-35	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Cu-OG62	ME-ICP61	ME-OG62
	PGM-ICP23		Ni-OG62



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CERTIFICATE TB18009664

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-JAN-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18009664

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W439795		1.12	<1	<1	<5	3	2	<1	12.75	<0.5		
W439796		0.04	493	1820	408	105	211	21	2.33	0.5		
W439797		2.57	11	21	5	901	978	66	5.79	0.5		
W439798		2.53	12	28	7	1170	1340	74	5.68	0.7		
W439799		1.30	12	29	8	1550	1680	86	5.39	0.6		
W439800		2.46	22	48	13	2180	2380	102	5.63	1.0		
W439801		2.58	25	44	11	2310	2550	110	5.76	1.1		
W439802		2.34	14	25	9	1330	1260	72	5.56	0.9		
W439803		2.56	25	25	10	1130	959	62	5.33	0.6		
W439804		2.45	21	21	6	1010	942	66	5.17	0.6		
W439805		2.61	73	51	16	2510	2310	101	5.41	1.3		
W439806		2.61	73	25	8	1710	1430	85	6.17	1.0		
W439807		2.61	64	24	8	2840	2190	125	6.59	1.5		
W439808		2.57	25	19	5	1570	1370	88	5.91	0.9		
W439809		2.42	17	20	6	1420	1150	79	6.14	0.9		
W439810		2.18	28	35	10	2380	2010	106	6.43	1.4		
W439811		2.28	19	19	6	2070	1800	104	6.54	1.6		
W439812		2.32	36	29	9	2860	2080	110	5.93	1.7		
W439813		2.50	15	16	<5	2020	1780	115	7.37	1.2		
W439814		2.36	26	37	12	2540	2200	106	4.91	1.4		
W439815		0.04	106	359	709	5770	2220	158	6.70	2.8		
W439816		1.91	14	23	8	1260	1200	78	5.67	0.6		
W439817		2.56	5	3	<5	350	368	50	5.80	<0.5		
W439818		2.44	23	15	<5	1440	1250	82	6.25	0.8		
W439819		1.20	17	15	<5	1510	1420	108	9.19	0.8		
W439820		2.68	17	19	6	1850	1720	124	10.15	1.3		
W439821		2.66	25	26	7	2710	2520	138	9.64	1.5		
W439822		2.59	26	27	9	2450	2340	135	9.66	1.4		
W439823		2.60	27	29	9	2430	2380	138	9.79	1.3		
W439824		2.39	31	25	8	2230	2060	120	9.44	1.3		
W439825		2.54	22	24	7	2080	2040	129	9.98	1.1		
W439826		2.62	24	26	7	2430	2340	137	9.99	1.6		
W439827		2.54	27	27	7	2440	2260	135	10.10	1.6		
W439828		2.41	24	25	9	2380	2200	134	10.05	1.5		
W439829		2.46	32	26	7	2370	2160	136	10.20	1.3		
W439830		2.59	26	20	6	2170	2040	133	10.75	1.4		
W439831		2.29	23	24	7	2350	2230	143	11.10	1.4		
W439832		1.27	25	24	6	2270	2160	142	11.70	1.4		
W439833		2.54	10	11	<5	1100	1190	111	10.90	0.7		
W439834		2.56	4	5	<5	657	815	97	10.55	<0.5		



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Project: 18-101

CERTIFICATE OF ANALYSIS TB18009664

Sample Description	Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
	Analyte	Recvd Wt.	Au	Pd	Pt	Cu	Ni	Co	Mg	Ag	Cu	Ni
Units		kg	ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W439835		1.25	3	<1	<5	8	3	<1	13.55	<0.5		
W439836		2.47	3	4	<5	629	874	104	11.50	<0.5		
W439837		2.72	3	4	<5	507	772	103	11.80	<0.5		
W439838		2.72	5	5	<5	682	924	103	11.25	<0.5		
W439839		2.62	7	4	<5	799	995	104	11.10	<0.5		
W439840		2.83	10	7	<5	1010	1200	113	11.50	0.6		
W439841		2.52	1	3	<5	376	688	102	12.05	<0.5		
W439842		2.75	2	2	<5	428	728	104	11.95	<0.5		
W439843		2.99	3	4	<5	581	807	96	10.85	<0.5		
W439844		2.90	2	3	<5	528	766	97	11.15	<0.5		
W439845		2.79	1	2	<5	444	725	101	11.70	<0.5		
W439846		2.81	5	6	<5	675	910	104	11.40	<0.5		
W439847		2.83	<1	3	<5	393	684	98	11.15	<0.5		
W439848		2.83	3	4	<5	589	845	99	11.00	<0.5		
W439849		2.60	2	6	<5	502	739	96	10.30	<0.5		
W439850		2.60	6	7	<5	637	821	100	10.30	<0.5		
W439851		2.92	3	6	<5	584	796	103	11.15	<0.5		
W439852		2.91	<1	2	<5	370	632	101	11.30	<0.5		
W439853		2.63	6	10	5	986	1235	96	8.40	0.6		
W439854		1.23	66	41	16	2260	2750	122	6.44	1.1		
W439855		0.04	75	566	290	4680	4540	118	4.01	2.2		
W439856		2.31	8	9	<5	912	1095	112	11.20	0.5		
W439857		2.54	5	5	<5	613	906	110	11.80	0.5		
W439858		2.48	4	5	<5	532	817	105	11.40	<0.5		
W439859		2.61	6	10	<5	786	1085	114	12.00	0.5		
W439860		2.37	4	8	<5	707	1030	115	12.10	<0.5		
W439861		3.25	1	3	<5	439	711	96	10.40	<0.5		
W439862		2.64	7	10	<5	957	1190	115	11.40	0.5		
W439863		3.01	2	3	<5	531	869	109	12.10	<0.5		
W439864		2.77	2	2	<5	389	725	104	11.95	<0.5		
W439865		2.07	1	1	<5	363	719	102	11.75	<0.5		
W439866		2.64	1	2	<5	419	757	106	11.80	<0.5		
W439867		2.78	<1	1	<5	379	723	108	12.00	<0.5		
W439868		2.93	1	1	<5	437	783	105	12.05	<0.5		
W439869		2.52	2	2	<5	473	798	110	12.25	<0.5		
W439870		2.64	3	2	<5	532	849	108	11.90	<0.5		
W439871		2.66	2	1	<5	504	807	106	11.90	<0.5		
W439872		0.08	233	3310	802	>10000	>10000	979	3.93	4.0	16250	45500



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CERTIFICATE OF ANALYSIS TB18009664

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-32	CRU-QC	LOG-21
	PUL-35	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Cu-OG62	ME-ICP61	ME-OG62
	PGM-ICP23		Ni-OG62



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CERTIFICATE TB18031540

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-FEB-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
----------------------------------	-----------------------------------	-----------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18031540

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
W440263		0.04	10	1	<5	94	6	15	1.52	<0.5		
W440264		0.09	468	1900	405	102	210	23	2.26	0.6		
W440265		2.44	8	88	13	64	342	52	6.09	<0.5		
W440266		2.60	16	218	36	97	358	52	5.95	<0.5		
W440267		2.50	7	92	39	65	342	41	5.31	<0.5		
W440268		2.32	7	130	64	53	313	38	5.05	<0.5		
W440269		2.39	8	327	100	36	332	42	5.36	<0.5		
W440270		2.51	11	83	55	147	266	47	4.94	<0.5		
W440271		2.31	20	92	27	194	258	43	4.47	<0.5		
W440272		2.39	25	271	53	105	322	46	5.31	<0.5		
W440273		2.27	7	93	11	80	305	45	5.26	<0.5		
W440274		2.33	17	130	15	73	292	47	5.26	<0.5		
W440275		2.42	5	117	14	66	300	47	5.30	<0.5		
W440276		2.48	6	99	14	66	305	46	5.49	<0.5		
W440277		2.32	7	99	14	77	289	46	5.41	<0.5		
W440278		2.32	7	106	15	69	301	46	5.43	<0.5		
W440279		2.23	5	95	14	45	290	44	5.34	<0.5		
W440280		2.39	3	88	15	42	298	44	5.39	<0.5		
W440281		2.21	7	97	15	66	292	42	5.08	<0.5		
W440282		2.27	8	114	15	66	268	40	4.62	<0.5		
W440283		0.08	264	3510	799	>10000	>10000	910	3.69	4.0	15950	45900
W440284		2.50	7	110	16	82	324	42	4.75	<0.5		
W440285		2.52	8	97	17	78	308	44	5.08	<0.5		
W440286		2.41	8	101	19	78	301	43	5.15	<0.5		
W440287		2.27	9	100	21	71	307	46	5.31	<0.5		
W440288		2.38	7	89	17	54	299	45	5.40	<0.5		
W440289		2.41	7	92	21	45	301	44	5.42	<0.5		
W440290		2.34	11	103	21	75	304	44	5.14	<0.5		
W440291		2.53	12	93	19	99	307	49	5.64	<0.5		
W440292		2.39	6	118	20	55	322	45	5.50	<0.5		
W440293		2.31	14	107	20	45	330	45	5.77	<0.5		
W440294		2.49	10	100	20	55	324	48	5.93	<0.5		
W440295		2.33	15	104	21	72	340	49	5.94	<0.5		
W440296		2.29	14	105	20	65	342	48	6.04	<0.5		
W440297		2.51	11	107	20	50	343	48	6.00	<0.5		
W440298		2.33	23	116	19	87	345	46	5.90	<0.5		
W440299		2.33	17	112	17	89	377	48	6.31	<0.5		
W440300		2.45	12	44	6	136	283	45	4.93	<0.5		
W440301		2.31	9	572	208	67	545	75	10.40	<0.5		
W440302		2.40	5	285	102	26	518	62	9.20	<0.5		



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CERTIFICATE OF ANALYSIS TB18031540

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W440303		0.04	<1	2	<5	92	9	12	1.45	<0.5		
W440304		2.49	9	461	138	48	459	61	8.49	<0.5		
W440305		2.28	7	214	92	37	324	43	5.75	<0.5		
W440306		2.28	17	182	77	133	277	43	4.81	<0.5		
W440307		2.34	31	580	235	203	294	42	4.50	<0.5		
W440308		2.30	19	1450	510	74	132	20	1.64	<0.5		
W440309		2.27	18	1280	476	66	177	26	2.15	<0.5		
W440310		2.23	4	228	113	34	140	24	2.33	<0.5		
W440311		2.26	1	99	55	10	128	20	1.95	<0.5		
W440312		2.56	21	33	12	1650	1825	117	9.72	0.8		
W440313		2.42	17	28	10	1280	1525	112	10.00	0.7		
W440314		2.33	22	34	10	1700	1835	117	9.41	1.0		
W440315		2.41	8	14	<5	817	1065	101	9.88	0.5		
W440316		2.61	10	9	<5	1260	1355	115	10.50	0.7		
W440317		2.91	14	19	6	1700	1850	132	10.65	0.9		
W440318		2.32	12	18	5	1050	1230	103	9.58	0.5		
W440319		2.56	17	26	9	1740	2020	117	8.08	0.8		
W440320		2.34	41	65	24	3190	3170	140	7.33	1.6		
W440321		2.57	28	35	14	2930	2650	133	7.74	1.5		
W440322		2.45	24	19	8	3450	2910	145	8.10	1.7		
W440323		0.08	99	626	318	4450	4250	110	3.75	2.2		
W440324		2.49	19	14	6	2980	2570	131	8.16	1.6		
W440325		2.40	23	22	8	1910	1845	95	5.96	1.1		
W440326		2.35	7	9	<5	968	929	68	5.12	0.6		
W440327		2.42	13	9	<5	1220	1175	74	5.64	0.6		
W440328		1.95	25	21	8	2580	2220	107	6.12	1.4		
W440329		2.26	29	21	8	2550	2140	105	6.29	1.3		
W440330		2.57	26	11	5	2450	2020	100	6.48	1.2		
W440331		2.65	14	6	<5	1450	1360	86	7.14	0.8		
W440332		2.57	11	4	<5	648	777	76	7.65	<0.5		
W440333		2.72	4	1	<5	547	779	94	10.05	<0.5		
W440334		2.59	25	9	<5	2110	1950	104	6.92	1.1		
W440335		2.48	25	10	<5	1680	1470	91	5.99	1.0		
W440336		2.51	25	33	11	1690	1580	81	4.57	0.8		
W440337		2.52	18	18	7	963	1085	76	5.36	<0.5		
W440338		2.54	4	3	<5	309	410	56	5.09	<0.5		
W440339		2.44	8	17	6	972	1080	73	4.91	0.5		
W440340		0.08	257	3480	815	>10000	>10000	962	3.89	4.2	16150	46700



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 Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18031540

CERTIFICATE COMMENTS									
	LABORATORY ADDRESSES								
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-32</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-35</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-32	CRU-QC	LOG-21	LOG-23	PUL-35	PUL-QC	SPL-21	WEI-21
CRU-32	CRU-QC	LOG-21	LOG-23						
PUL-35	PUL-QC	SPL-21	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%;">Cu-OG62</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 33%;">Ni-OG62</td> </tr> <tr> <td>PGM-ICP23</td> <td></td> <td></td> <td></td> </tr> </table>	Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62	PGM-ICP23			
Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62						
PGM-ICP23									



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CERTIFICATE TB18031541

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-FEB-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18031541

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W440341		0.04	<1	1	<5	93	5	15	1.53	<0.5		
W440342		0.09	481	1865	391	105	212	23	2.32	0.7		
W440343		2.42	10	7	<5	890	874	71	5.05	0.6		
W440344		2.46	7	8	<5	614	677	61	4.71	0.5		
W440345		2.44	13	21	8	1380	1450	84	4.74	0.8		
W440346		2.47	25	31	9	2260	2100	93	3.96	1.6		
W440347		2.34	15	14	6	1420	994	62	4.20	0.9		
W440348		2.58	10	14	5	995	1050	75	5.15	0.6		
W440349		2.44	7	6	<5	848	852	73	5.21	0.7		
W440350		2.40	9	13	5	939	891	70	5.21	0.6		
W440351		2.33	9	12	<5	921	919	70	5.11	0.6		
W440352		2.46	28	31	11	2640	2350	107	5.21	1.8		
W440353		2.15	42	35	15	3290	2730	119	5.32	2.0		
W440354		2.30	37	34	14	2890	2490	110	5.07	1.8		
W440355		2.59	39	41	15	2910	2570	114	5.20	1.8		
W440356		2.33	32	35	14	2860	2410	113	5.31	1.8		
W440357		2.38	29	31	12	2610	2170	111	5.84	1.5		
W440358		2.50	31	39	13	2840	2330	114	5.30	1.8		
W440359		2.29	24	27	11	1960	1630	92	5.10	1.0		
W440360		2.25	18	15	6	936	874	69	5.17	<0.5		
W440361		0.08	254	3520	781	>10000	>10000	995	4.03	4.2	15900	45600
W440362		2.55	8	10	5	758	718	65	5.29	0.5		
W440363		2.33	76	5	<5	451	438	54	4.67	<0.5		
W440364		2.32	2	3	<5	246	332	47	4.81	<0.5		
W440365		2.36	1	1	<5	180	268	49	4.75	<0.5		
W440366		2.44	<1	<1	<5	159	241	48	4.72	<0.5		
W440367		2.33	4	8	11	455	422	53	4.89	0.5		
W440368		2.25	9	9	<5	529	470	55	4.96	0.8		
W440369		2.45	13	15	<5	775	631	56	4.58	0.5		
W440370		2.49	9	10	<5	569	558	58	4.90	<0.5		
W440371		2.41	9	14	7	702	672	60	4.74	<0.5		
W440372		2.16	1	6	<5	316	365	52	4.78	<0.5		
W440373		2.39	6	8	<5	510	491	51	4.51	<0.5		
W440374		2.20	4	5	<5	465	392	53	5.05	<0.5		
W440375		2.28	8	5	<5	893	581	66	5.97	0.5		
W440376		2.29	18	8	5	1770	960	77	6.17	0.9		
W440377		2.23	5	5	<5	484	433	60	6.20	<0.5		
W440378		2.28	5	4	<5	443	386	57	5.93	<0.5		
W440379		2.35	6	5	<5	504	426	65	6.39	<0.5		
W440380		2.34	4	3	<5	349	363	61	6.34	<0.5		



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Project: 18-101

CERTIFICATE OF ANALYSIS TB18031541

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W440381		0.04	1	1	<5	94	6	14	1.52	<0.5		
W440382		2.39	2	2	<5	262	308	61	6.33	<0.5		
W440383		2.37	3	1	<5	223	286	57	6.18	<0.5		
W440384		2.34	2	3	<5	239	299	56	6.17	<0.5		
W440385		2.32	4	3	<5	290	326	57	6.36	<0.5		
W440386		2.51	7	9	5	632	510	61	6.26	<0.5		
W440387		2.30	4	5	5	407	382	58	6.25	<0.5		
W440388		2.42	2	2	<5	304	326	58	6.37	<0.5		
W440389		2.29	2	3	<5	245	331	55	6.42	<0.5		
W440390		2.38	2	2	<5	147	222	35	4.33	<0.5		
W440391		2.37	2	2	<5	115	302	35	5.23	<0.5		
W440392		2.35	2	3	<5	334	335	57	6.18	<0.5		
W440393		2.37	2	1	<5	278	302	56	6.22	<0.5		
W440394		2.30	4	3	<5	357	371	57	6.04	<0.5		
W440395		2.45	8	12	<5	698	700	70	6.47	<0.5		
W440396		2.64	11	19	7	923	915	72	6.27	0.5		
W440397		2.46	14	26	11	1220	1110	76	6.17	0.5		
W440398		2.32	15	24	9	1190	1110	75	5.95	0.7		
W440399		2.29	13	19	6	1040	956	73	6.31	0.6		
W440400		2.41	8	12	6	762	735	70	6.51	<0.5		
W440401		0.08	98	365	761	5620	2130	149	6.47	2.6		
W440402		2.52	7	9	<5	609	591	62	6.09	<0.5		
W440403		2.30	8	7	<5	581	527	63	6.27	<0.5		
W440404		2.48	4	5	<5	446	452	60	6.18	<0.5		
W440405		2.31	4	3	<5	434	397	61	6.30	<0.5		
W440406		2.06	4	5	<5	286	334	54	4.98	<0.5		
W440407		2.43	2	2	<5	225	322	63	6.42	<0.5		
W440408		2.29	7	11	<5	536	486	51	4.47	<0.5		
W440409		2.21	4	5	<5	392	324	47	4.58	<0.5		
W440410		2.29	7	7	<5	623	507	67	6.30	<0.5		
W440411		2.34	4	4	<5	471	415	67	6.98	<0.5		
W440412		2.35	3	2	<5	350	334	63	6.71	<0.5		
W440413		2.65	3	3	<5	358	334	63	6.52	<0.5		
W440414		2.43	3	4	<5	406	377	64	6.36	<0.5		
W440415		2.35	4	4	<5	436	390	61	6.05	<0.5		
W440416		2.18	3	2	<5	283	275	54	5.71	<0.5		
W440417		2.28	5	5	<5	459	387	55	5.04	<0.5		
W440418		0.08	60	594	294	4540	4310	111	3.84	1.9		



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Project: 18-101

CERTIFICATE OF ANALYSIS TB18031541

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-32	CRU-QC	LOG-21
	PUL-35	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Cu-OG62	ME-ICP61	ME-OG62
	PGM-ICP23		Ni-OG62



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 Account: MZI

CERTIFICATE TB18031542

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-FEB-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
----------------------------------	-----------------------------------	-----------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18031542

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
W440419		0.04	9	2	<5	94	7	14	1.51	<0.5		
W440420		0.09	466	1875	395	108	215	22	2.30	0.8		
W440421		2.22	3	3	<5	292	289	56	5.28	<0.5		
W440422		1.92	2	3	<5	371	344	55	5.10	<0.5		
W440423		3.33	6	7	<5	488	454	51	4.34	<0.5		
W440424		2.26	7	6	<5	531	527	52	4.44	<0.5		
W440425		2.38	11	10	<5	996	824	69	5.26	0.8		
W440426		2.33	11	11	5	826	729	65	5.25	0.6		
W440427		2.30	18	17	10	1460	1195	81	5.67	0.7		
W440428		2.19	18	24	10	1925	2110	127	8.55	0.7		
W440429		2.20	19	19	6	1515	1290	77	4.94	1.1		
W440430		2.37	15	18	9	1125	1125	76	5.06	0.6		
W440431		2.25	19	13	5	1490	1055	77	5.46	0.9		
W440432		2.17	4	4	<5	370	412	63	6.16	<0.5		
W440433		2.21	2	2	<5	232	325	64	6.01	<0.5		
W440434		2.28	3	2	<5	284	390	70	6.46	<0.5		
W440435		2.16	15	18	8	1145	1025	75	5.33	0.6		
W440436		2.12	15	20	5	894	807	64	4.97	0.5		
W440437		2.23	8	25	<5	455	430	58	3.85	<0.5		
W440438		2.28	2	3	<5	216	338	71	6.51	<0.5		
W440439		0.08	130	370	681	5550	2110	148	6.41	2.8		
W440440		2.54	4	4	<5	436	476	76	6.61	<0.5		
W440441		2.44	15	17	5	1160	1225	93	6.48	0.5		
W440442		2.35	3	5	<5	242	201	58	3.89	<0.5		
W440443		2.30	19	19	6	1420	1075	82	6.39	1.1		
W440444		2.29	22	26	11	1570	1115	71	4.50	1.1		
W440445		2.20	15	10	8	801	651	64	5.31	0.8		
W440446		2.34	19	21	8	1365	1250	72	4.67	0.8		
W440447		2.34	16	17	<5	1265	1070	69	4.78	0.6		
W440448		2.28	19	9	<5	1010	549	58	4.50	0.5		
W440449		2.27	39	18	6	2040	1415	88	4.61	0.9		
W440450		2.27	30	11	<5	1710	1175	70	3.51	0.8		
W440451		2.25	23	19	7	1245	1245	69	3.84	0.6		
W440452		2.22	25	17	6	1645	1325	82	4.54	0.7		
W440453		2.14	16	12	<5	1125	895	63	3.90	0.5		
W440454		2.30	25	10	5	2020	1380	88	4.98	0.9		
W440455		2.34	19	7	<5	1470	925	70	4.74	0.8		
W440456		2.30	5	5	<5	494	457	54	4.74	<0.5		
W440457		2.46	11	8	<5	721	576	63	5.30	0.5		
W440458		2.21	2	1	<5	188	282	52	5.48	<0.5		



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 THUNDER BAY ON P7B 2R2

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 Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18031542

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W440459		0.04	<1	1	<5	99	7	13	1.62	<0.5		
W440460		2.45	76	62	23	2880	2050	105	7.72	3.9		
W440461		2.39	33	20	7	1475	1010	73	5.15	1.3		
W440462		2.42	27	28	5	1855	1145	76	4.73	1.5		
W440463		2.45	11	9	<5	904	665	59	4.83	0.7		
W440464		2.53	41	17	6	2750	1680	106	6.13	3.5		
W440465		2.40	8	15	6	425	504	53	4.60	<0.5		
W440466		2.46	26	19	7	1095	916	77	5.76	0.8		
W440467		2.48	17	18	9	1100	1010	77	5.46	0.5		
W440468		2.36	10	17	5	813	947	75	5.50	0.7		
W440469		2.52	14	19	9	889	860	70	5.57	0.7		
W440470		2.49	16	13	6	1080	1080	74	4.69	0.6		
W440471		2.50	8	6	<5	523	525	63	5.23	<0.5		
W440472		2.42	9	8	<5	743	623	68	4.97	<0.5		
W440473		2.66	4	12	5	178	179	57	4.22	<0.5		
W440474		2.54	6	15	8	124	197	56	4.33	<0.5		
W440475		2.51	4	10	5	176	171	56	4.06	<0.5		
W440476		2.28	2	5	<5	172	137	56	4.13	<0.5		
W440477		2.11	2	4	<5	205	140	58	3.98	<0.5		
W440478		2.85	5	6	<5	305	251	51	4.11	<0.5		
W440479		0.08	127	602	292	4450	4200	110	3.84	1.9		
W440480		2.04	3	5	<5	194	151	54	4.02	<0.5		
W440481		1.74	4	4	<5	346	319	50	4.30	<0.5		
W440482		1.48	12	13	<5	974	779	62	4.41	0.7		
W440483		2.44	9	11	<5	531	537	70	6.61	<0.5		
W440484		2.52	11	7	<5	434	408	52	5.66	0.5		
W440485		2.40	14	15	7	1045	884	63	4.17	<0.5		
W440486		2.58	15	18	7	1110	957	70	4.73	0.7		
W440487		2.33	8	13	7	406	231	57	4.67	<0.5		
W440488		2.31	11	20	8	285	353	62	4.59	<0.5		
W440489		2.35	8	47	20	394	395	43	3.26	0.5		
W440490		2.34	9	22	6	511	611	61	4.85	<0.5		
W440491		2.32	12	14	<5	791	792	60	4.33	0.5		
W440492		2.46	6	33	13	465	634	56	4.58	<0.5		
W440493		2.25	5	54	20	239	294	36	3.19	0.5		
W440494		2.31	11	19	7	550	548	51	4.14	<0.5		
W440495		2.25	11	23	8	457	297	40	3.05	0.5		
W440496		0.08	229	3390	803	>10000	>10000	982	3.98	4.2	15750	45200



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To: LAC DES ILES MINES LTD. (NAP)
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Page: Appendix 1
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Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18031542

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-32	CRU-QC	LOG-21
	PUL-35	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Cu-OG62	ME-ICP61	ME-OG62
	PGM-ICP23		Ni-OG62



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To: LAC DES ILES MINES LTD. (NAP)
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 THUNDER BAY ON P7B 2R2

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 Finalized Date: 2-MAR-2018
 Account: MZI

CERTIFICATE TB18034375

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-FEB-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
----------------------------------	-----------------------------------	-----------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
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 THUNDER BAY ON P7B 2R2

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18034375

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
W440497		0.04	2	1	<5	96	5	14	1.57	<0.5		
W440498		0.09	483	1850	418	107	214	23	2.38	0.5		
W440499		2.34	8	8	<5	235	333	40	3.82	<0.5		
W440500		2.25	16	33	8	550	507	46	3.86	<0.5		
W440501		2.30	15	18	6	753	662	58	4.94	<0.5		
W440502		2.25	10	10	<5	620	573	59	5.08	<0.5		
W440503		2.18	13	26	21	711	513	52	4.32	<0.5		
W440504		2.27	9	14	5	496	432	48	4.57	<0.5		
W440505		1.73	2	1	<5	123	103	27	2.77	<0.5		
W440506		1.75	7	1	<5	289	136	29	2.85	<0.5		
W440507		1.77	3	30	21	259	422	56	5.47	<0.5		
W440508		1.80	11	40	15	400	488	49	4.97	<0.5		
W440509		2.33	7	7	<5	633	594	54	4.53	<0.5		
W440510		2.34	9	28	5	479	506	50	4.48	<0.5		
W440511		2.37	15	13	<5	847	754	62	4.64	<0.5		
W440512		2.49	6	10	<5	460	433	50	4.47	<0.5		
W440513		2.45	5	32	10	343	359	48	4.54	<0.5		
W440514		1.86	4	3	<5	375	373	52	4.99	<0.5		
W440515		1.72	6	7	<5	471	462	45	3.93	<0.5		
W440516		1.65	6	18	8	231	258	52	4.50	<0.5		
W440517		0.08	231	3530	844	>10000	>10000	959	3.95	4.3	15700	45600
W440518		1.82	6	21	12	284	285	54	4.62	<0.5		
W440519		2.40	7	23	11	213	259	54	4.39	<0.5		
W440520		2.20	5	18	9	203	244	53	4.71	<0.5		
W440521		2.08	11	28	16	505	310	55	4.45	0.5		
W440522		2.15	8	18	8	305	226	55	4.68	<0.5		
W440523		1.33	14	8	<5	723	487	58	4.32	0.7		
W440524		1.50	12	8	<5	566	479	58	4.58	<0.5		
W440525		2.36	9	18	10	484	426	58	4.73	0.6		
W440526		2.21	14	35	12	732	646	61	5.12	1.0		
W440527		2.25	6	8	<5	455	434	49	4.82	0.6		
W440528		2.37	2	24	11	258	309	44	4.31	<0.5		
W440529		2.59	10	11	<5	626	487	52	4.49	0.8		
W440530		2.25	10	13	6	304	228	53	4.38	<0.5		
W440531		2.33	12	11	<5	596	582	58	4.83	<0.5		
W440532		2.32	3	1	<5	208	240	47	5.06	<0.5		
W440533		2.37	6	10	<5	387	478	55	4.83	<0.5		
W440534		2.39	5	8	<5	603	605	57	4.84	<0.5		
W440535		1.83	12	6	<5	558	471	51	5.09	0.6		
W440536		1.97	17	7	6	544	569	59	5.05	0.5		



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 Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18034375

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
W440537		0.04	<1	1	<5	90	5	13	1.47	<0.5		
W440538		2.49	4	17	7	119	178	39	3.82	<0.5		
W440539		2.45	4	14	6	197	190	50	4.14	<0.5		
W440540		1.38	3	7	<5	192	256	32	2.66	1.1		
W440541		1.35	16	14	5	809	710	49	3.31	0.7		
W440542		2.10	5	11	<5	278	359	31	2.67	<0.5		
W440543		2.37	4	27	9	299	425	44	3.83	<0.5		
W440544		2.11	9	8	<5	537	553	42	2.81	<0.5		
W440545		2.36	<1	<1	<5	73	332	55	7.50	<0.5		
W440546		2.05	<1	<1	<5	80	337	54	7.15	<0.5		
W440547		2.35	<1	1	<5	92	378	54	7.13	<0.5		
W440548		2.31	<1	<1	<5	68	256	44	5.56	<0.5		
W440549		2.17	<1	1	<5	90	301	50	6.34	<0.5		
W440550		2.38	<1	<1	<5	70	272	48	5.89	<0.5		
W440551		2.47	<1	1	<5	52	432	66	9.33	<0.5		
W440552		2.41	<1	1	<5	62	501	80	11.15	<0.5		
W440553		2.52	<1	<1	<5	60	434	66	9.38	<0.5		
W440554		2.26	<1	<1	<5	56	363	57	7.86	<0.5		
W440555		2.67	<1	<1	<5	46	511	94	12.55	<0.5		
W440556		2.32	<1	<1	<5	50	475	83	11.65	<0.5		
W440557		0.09	493	1825	402	108	212	24	2.37	0.5		
W440558		2.60	<1	<1	<5	51	483	82	11.80	<0.5		
W440559		2.32	<1	1	<5	66	363	57	7.68	<0.5		
W440560		2.34	<1	1	<5	76	383	60	8.20	<0.5		
W440561		2.42	<1	<1	<5	81	392	63	8.98	<0.5		
W440562		2.41	<1	<1	<5	84	386	58	8.31	<0.5		
W440563		2.39	<1	<1	<5	79	367	62	8.36	<0.5		
W440564		2.63	<1	<1	<5	70	362	62	8.59	<0.5		
W440565		2.55	<1	<1	<5	73	396	69	9.35	<0.5		
W440566		3.30	<1	<1	<5	81	346	58	7.80	<0.5		
W440567		2.39	<1	1	<5	79	324	55	7.32	<0.5		
W440568		2.54	<1	<1	<5	80	328	56	7.31	<0.5		
W440569		2.53	<1	1	<5	83	327	56	7.35	<0.5		
W440570		2.53	<1	<1	<5	76	319	54	7.19	<0.5		
W440571		2.50	<1	1	<5	79	324	57	7.42	<0.5		
W440572		2.52	<1	<1	<5	80	348	61	8.16	<0.5		
W440573		2.49	<1	1	<5	85	318	55	7.24	<0.5		
W440574		0.08	84	367	728	5590	2140	153	6.61	2.7		



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 Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB18034375

CERTIFICATE COMMENTS									
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-32</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-35</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-32	CRU-QC	LOG-21	LOG-23	PUL-35	PUL-QC	SPL-21	WEI-21
CRU-32	CRU-QC	LOG-21	LOG-23						
PUL-35	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Cu-OG62</td> <td>ME-ICP61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> <tr> <td>PGM-ICP23</td> <td></td> <td></td> <td></td> </tr> </table>	Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62	PGM-ICP23			
Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62						
PGM-ICP23									



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 Account: MZI

CERTIFICATE TB18054023

Project: 18-101
 P.O. No.: 182449
 This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-MAR-2018.
 The following have access to data associated with this certificate:

DENIS DECHARTE KELSEY PRIVETT	GARY DESCHUTTER LDIM WEBTRIEVE	DAVE PECK
----------------------------------	-----------------------------------	-----------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: LAC DES ILES MINES LTD. (NAP)
 ATTN: LDIM WEBTRIEVE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB18054023

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
X440575		0.04	3	1	<5	92	7	14	1.54	<0.5		
X440576		0.09	474	1880	408	108	212	21	2.44	0.5		
X440577		2.22	1	1	<5	84	322	56	6.87	<0.5		
X440578		1.80	2	7	<5	127	328	66	8.52	<0.5		
X440579		3.17	<1	2	<5	97	348	61	7.71	<0.5		
X440580		2.19	2	1	<5	94	375	57	7.30	<0.5		
X440581		2.28	<1	<1	<5	98	328	55	6.82	<0.5		
X440582		2.15	1	<1	<5	88	243	39	5.15	<0.5		
X440583		2.30	3	4	<5	63	27	10	0.83	<0.5		
X440584		2.04	1	<1	<5	32	270	40	4.91	<0.5		
X440585		2.61	1	1	<5	40	289	41	5.19	<0.5		
X440586		2.40	<1	<1	<5	70	299	48	5.90	<0.5		
X440587		2.21	<1	<1	<5	69	286	45	5.52	<0.5		
X440588		2.28	<1	<1	<5	47	285	46	5.35	<0.5		
X440589		2.23	<1	1	<5	77	310	49	6.04	<0.5		
X440590		2.41	1	<1	<5	74	273	45	5.53	<0.5		
X440591		2.22	<1	<1	<5	55	270	45	4.98	<0.5		
X440592		2.34	<1	<1	<5	63	213	36	3.87	<0.5		
X440593		2.35	2	1	<5	64	226	37	4.14	<0.5		
X440594		2.37	1	<1	<5	120	516	74	9.96	<0.5		
X440595		0.08	374	3460	762	>10000	>10000	1015	4.06	4.1	16550	46900
X440596		2.44	1	2	<5	187	642	81	10.70	<0.5		
X440597		2.49	2	2	<5	224	673	80	10.60	<0.5		
X440598		2.52	2	<1	<5	151	344	48	5.96	<0.5		
X440599		2.48	1	1	<5	148	376	51	6.41	<0.5		
X440600		2.04	<1	1	<5	89	345	58	7.44	<0.5		
X440601		2.23	1	1	<5	69	299	43	5.44	<0.5		
X440602		2.30	<1	<1	<5	53	362	58	7.66	<0.5		
X440603		2.27	1	1	8	23	431	72	9.84	<0.5		
X440604		2.43	4	1	<5	50	320	56	7.47	<0.5		
X440605		2.40	1	<1	<5	52	298	49	6.57	<0.5		
X440606		2.49	<1	1	<5	42	267	46	6.04	<0.5		
X440607		2.40	<1	<1	<5	43	280	48	6.42	<0.5		
X440608		2.28	<1	1	<5	52	299	50	6.50	<0.5		
X440609		2.44	<1	1	<5	54	324	53	7.13	<0.5		
X440610		2.27	<1	<1	<5	57	343	58	7.82	<0.5		
X440611		2.61	<1	1	<5	59	378	62	8.57	<0.5		
X440612		2.28	<1	<1	<5	62	189	30	3.19	<0.5		
X440613		2.30	2	1	<5	51	202	34	3.41	<0.5		
X440614		2.14	<1	<1	<5	77	224	36	3.79	<0.5		



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

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CERTIFICATE OF ANALYSIS TB18054023

Sample Description	Method Analyte Units LOR	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
		Recvd Wt. kg	Au ppb	Pd ppb	Pt ppb	Cu ppm	Ni ppm	Co ppm	Mg %	Ag ppm	Cu ppm	Ni ppm
		0.02	1	1	5	1	1	1	0.01	0.5	10	10
X440615		0.08	1	1	<5	91	9	15	1.51	<0.5		
X440616		2.73	<1	<1	<5	53	214	34	3.60	<0.5		
X440617		2.30	1	1	<5	57	225	36	4.03	<0.5		
X440618		2.26	<1	<1	<5	28	183	29	3.24	<0.5		
X440619		2.25	1	1	<5	46	169	28	2.85	<0.5		
X440620		2.32	<1	1	<5	64	204	32	3.35	<0.5		
X440621		2.25	1	<1	<5	58	195	31	3.38	<0.5		
X440622		2.25	<1	1	<5	60	200	32	3.49	<0.5		
X440623		2.13	<1	<1	<5	59	210	33	3.66	<0.5		
X440624		2.08	<1	1	<5	60	216	35	3.83	<0.5		
X440625		2.17	<1	<1	<5	68	225	35	3.86	<0.5		
X440626		2.16	<1	<1	<5	69	231	36	4.03	<0.5		
X440627		2.17	2	<1	<5	67	220	35	3.80	<0.5		
X440628		2.20	3	<1	<5	106	285	38	4.20	<0.5		
X440629		2.14	1	<1	<5	68	238	39	4.36	<0.5		
X440630		2.11	<1	1	<5	67	262	42	4.78	<0.5		
X440631		2.16	1	1	<5	72	227	39	4.18	<0.5		
X440632		2.09	<1	1	<5	40	232	37	4.52	<0.5		
X440633		1.95	1	<1	<5	28	144	36	3.41	<0.5		
X440634		2.00	<1	1	<5	59	227	37	4.26	<0.5		
X440635		0.08	101	587	315	4370	4370	116	3.89	1.6		
X440636		2.17	<1	<1	<5	64	266	42	5.10	<0.5		
X440637		2.36	<1	<1	<5	67	290	45	5.67	<0.5		
X440638		2.23	<1	<1	<5	63	277	43	5.43	<0.5		
X440639		2.32	<1	<1	<5	43	271	43	5.40	<0.5		
X440640		2.21	<1	1	<5	50	273	42	5.17	<0.5		
X440641		2.19	<1	<1	<5	52	199	32	3.51	<0.5		
X440642		2.19	1	<1	<5	53	195	31	3.44	<0.5		
X440643		2.23	<1	1	<5	17	192	30	3.46	<0.5		
X440644		2.09	3	<1	<5	48	156	26	2.65	<0.5		
X440645		2.22	<1	<1	<5	53	166	28	2.88	<0.5		
X440646		2.06	1	1	<5	47	165	28	2.84	<0.5		
X440647		2.32	1	<1	<5	54	164	27	2.78	<0.5		
X440648		2.14	<1	1	<5	45	149	26	2.75	<0.5		
X440649		2.21	1	<1	<5	64	207	33	3.45	<0.5		
X440650		2.20	2	1	<5	126	288	37	4.05	<0.5		
X440651		2.31	5	3	<5	239	718	54	4.50	<0.5		
X440652		0.08	226	3550	795	>10000	>10000	1000	3.98	4.0	16000	45600



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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CERTIFICATE OF ANALYSIS TB18054023

CERTIFICATE COMMENTS									
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-32</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-35</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-32	CRU-QC	LOG-21	LOG-23	PUL-35	PUL-QC	SPL-21	WEI-21
CRU-32	CRU-QC	LOG-21	LOG-23						
PUL-35	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Cu-OG62</td> <td>ME-ICP61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> <tr> <td>PGM-ICP23</td> <td></td> <td></td> <td></td> </tr> </table>	Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62	PGM-ICP23			
Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62						
PGM-ICP23									

Appendix E: Rock Codes

Lithology Code	Rock Name	Mineral Code	Mineral Name	Alteration Code	Alteration Name	Mineralization Code	Mineralization Style Name
ANOR	Anorthosite	Bio/Bt	Biotite	Act	Actinolite	Bl	Blebbly
DIKE	Dike	Cpx	Clinopyroxene	Cal	Calcite	Cg	Coarse-grained
EGAB	Equigranular Gabbro	Cpy/Cp/Ccp	Chalcopyrite	Carb	Carbonate	Diss	Disseminated
GAB	Gabbro	Mt/Mag	Magnetite	Chl	Chlorite	Fc	Fracture Controlled
GAB-Bx/GABBX	Brecciated Gabbro	Ol	Olivine	Ep	Epidote	Ff	Fracture filling
GABMG	Medium-grained Gabbro	Opx	Orthopyroxene	Fe	Iron	Fg	Fine-grained
GAB-Vt/GABVT	Varitextured Gabbro	Plag/Plg	Plagioclase	Hem	Hematite	Int	Interstitial
GBNR	Gabbronorite	Po/Pyrr	Pyrrhotite	K	Potassium	Mg	Medium-grained
LC	Lost Core	Py/Pyr	Pyrite	Na	Sodium	Min	Mineralization
LGAB	Leucogabbro	Pyx/Pxn	Pyroxene	Ox	Oxide	Mod	Moderate
MBI	Mine Block Intrusion	Qtz	Quartz	Sel	Selective	Pheno	Phenocryst
MNOR	Melanorite			Serp	Serpentine	Slvg	Selvage
NLDI	North Lac des Iles			Sil	Silica	Tr	Trace
NOR	Norite			Spv	Semi-pervasive	Vc	Vein controlled
NOR-Vt	Varitextured Norite			Trem	Tremolite	Vcg	Very coarse-grained
OB	Overburden					Vfg	Very fine-grained
PER	Peridotite					Vh	Vein hosted
PYXT	Pyroxenite					Wk	Weak
QDIOR	Quartz Diorite						
TON	Tonalite						
WEB	Websterite						

