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Impala Canada
Lac des Iles Mines Ltd.

2019 Exploration Assessment Report on the B5 Zone

Lac Des Iles Property

Lease # 107911 (CLM 252)

Prepared by:

Kyle Miller, G.I.T

Claire McGuinness, G.I.T

Submitted by:

David Benson, P. Geo

Thunder Bay, Ontario

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Contents

Introduction

Impala Canada and its wholly owned predecessor, Lac des Iles Mines Ltd. (LDIM) completed four diamond drill holes totalling 453 meters on the B5 Zone from March 15th, 2019 through March 22nd, 2019. G4 Drilling, based from Val d'Or, Quebec, supplied one drill, to complete this work for a total of 8 days of drilling.

The potential mineralized zone was identified through historical drilling. Three historical drillholes returned high grade mineralization; 03-018 returned 9 meters of 19 g/t palladium, 01-079 returned 10 meters of 4 g/t palladium and 16-710 returned 10 meters of 3 g/t palladium. These intercepts have the potential to be a mineralized pipe, with a similar plunge to the B2 ore body, which is located to the south. The purpose of this program was to test the lateral extent of mineralization in 03-018 and to confirm whether the intersections are connected vertically.

This report is submitted to satisfy assessment work requirements. A total expenditure of $94,548.06 is submitted for assessment. Activities documented herein include:

- 453 meters NQ-sized core drilling in four diamond drill holes
- 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 NTS 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 located underground on 645 Level of the Lac des Iles Mine.

This report, submitted to obtain assessment work credit, details the results of diamond drilling on mining lease CLM 252 (lease #107911). Impala Canada Ltd. holds the mining and surface rights for CLM 252 under 21 year leases with expiry dates of August 31st, 2027. Leases and claims held by Impala Canada are shown in Figure 2 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**	-

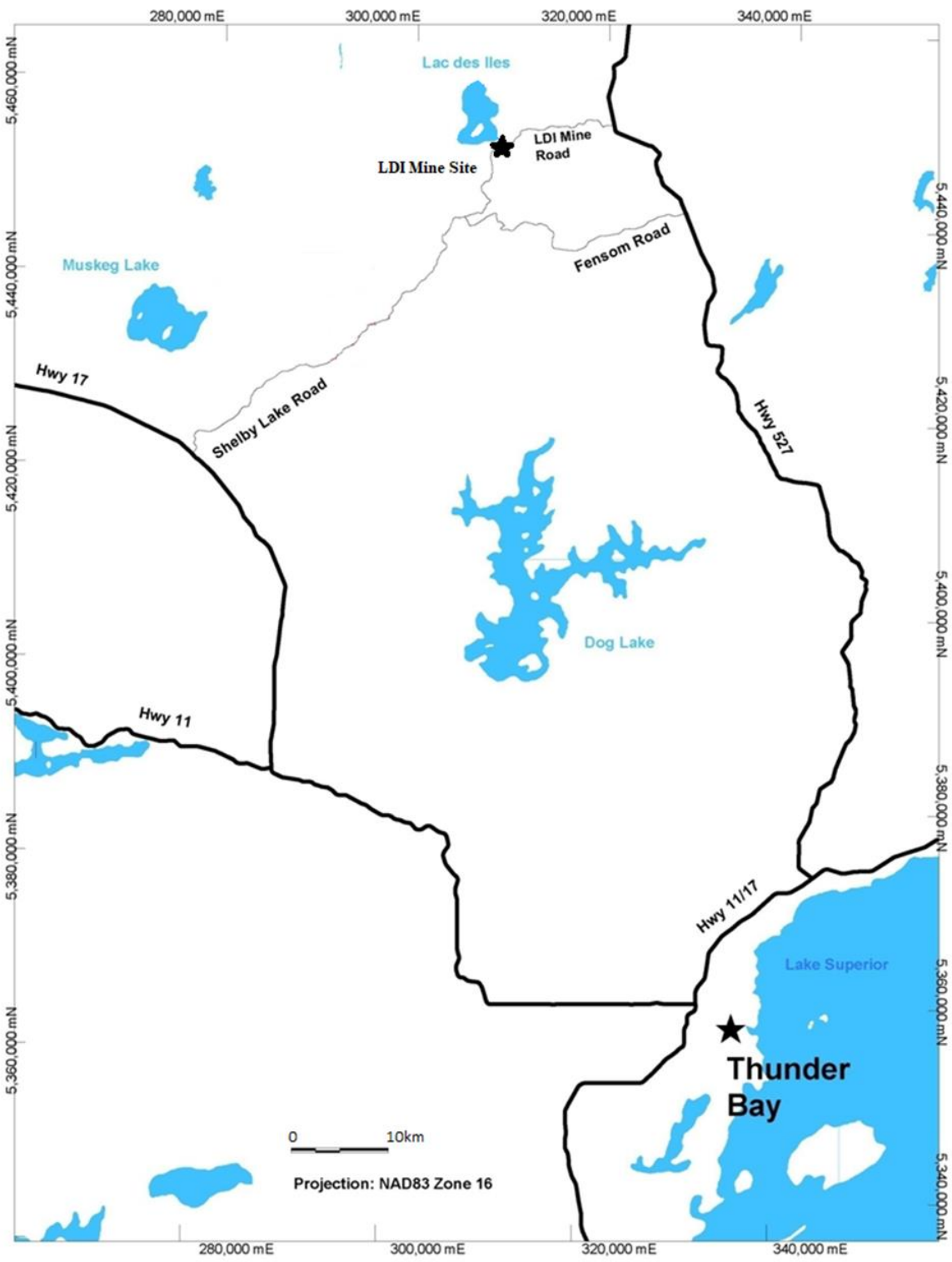

Figure 1: LDI Mine Property Location Map

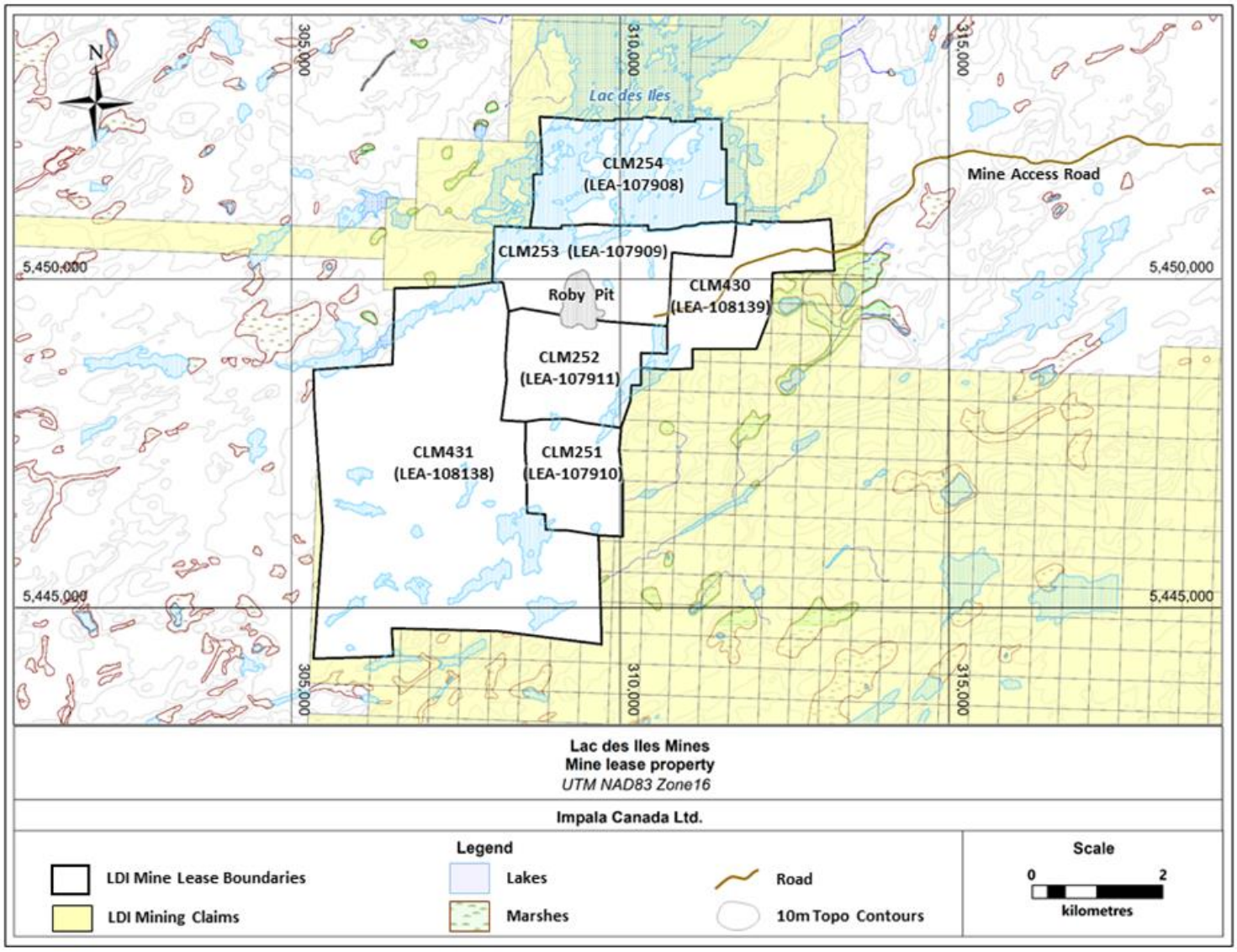

Figure 2: Land tenure of the property (from Decharte et al. 2018)

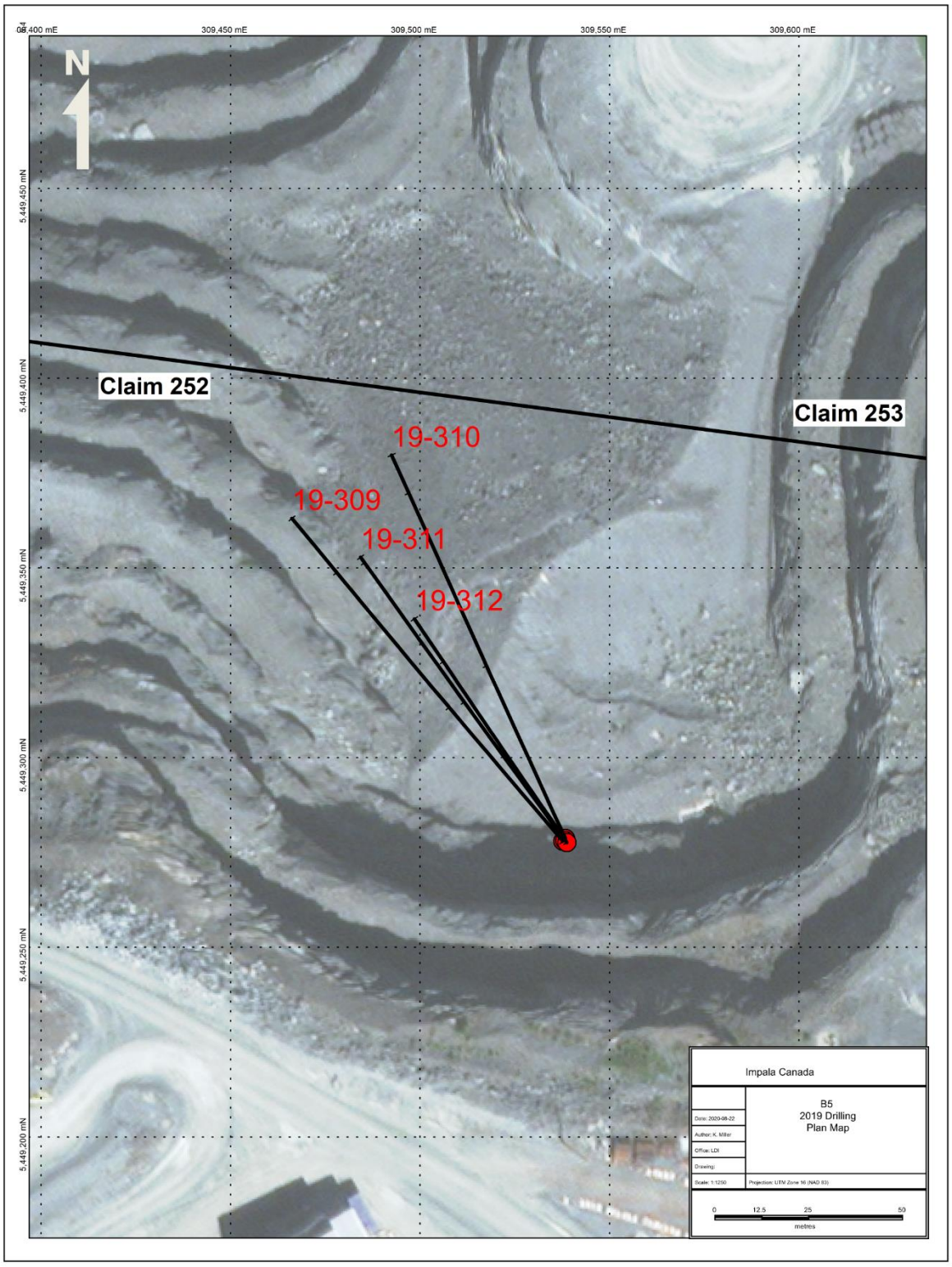

Figure 3: Plan Map showing location of drill collars, traces, and claim blocks over aerial imagery (1:1250 scale, NAD 83/Z16)

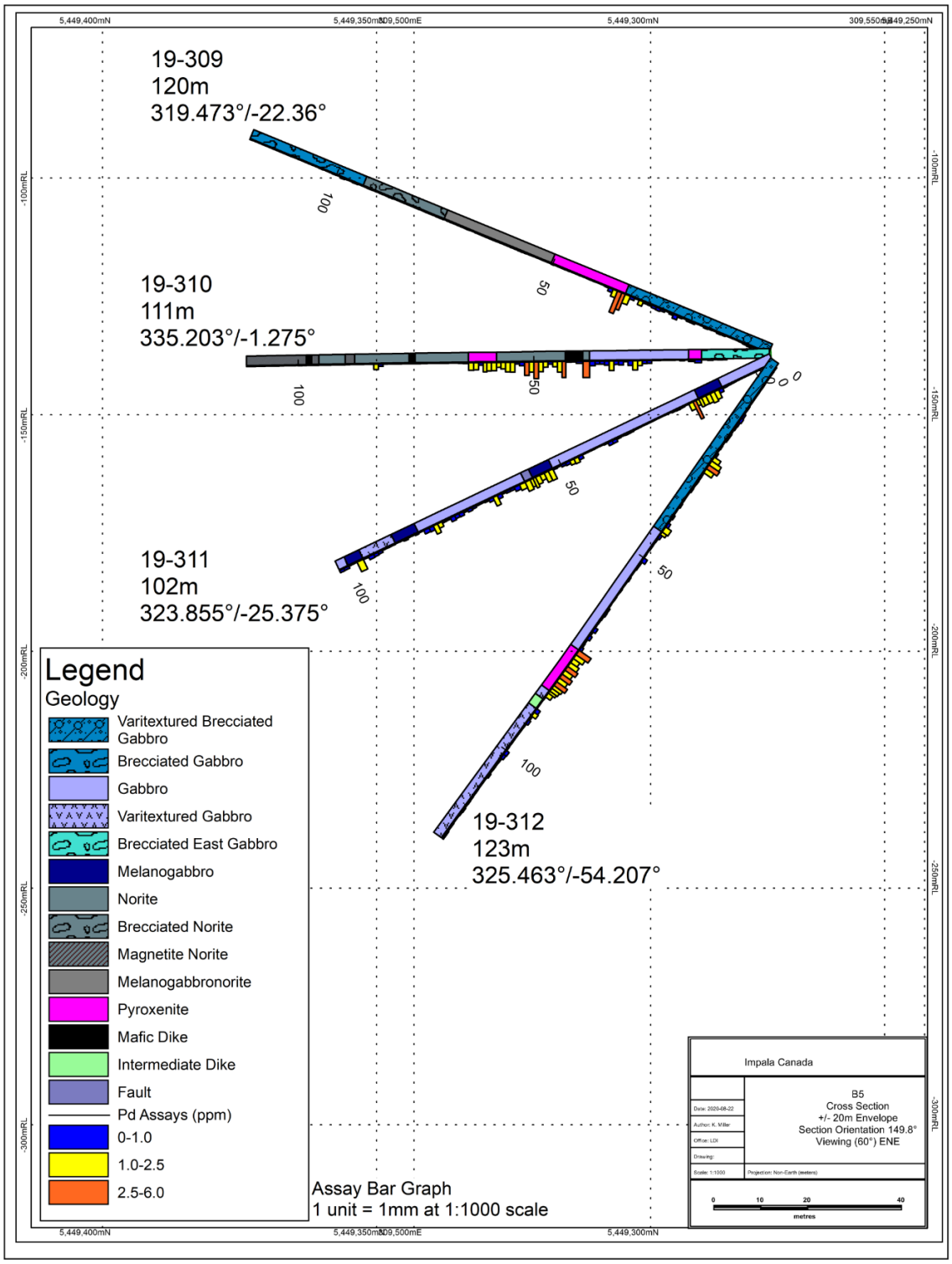

Figure 4: Cross section looking ENE and showing the four B5 drill holes (1:1000 scale, 20m envelope)

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 Neoarchean 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 5). 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 5). 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 gabbronorite 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 phyric.

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.

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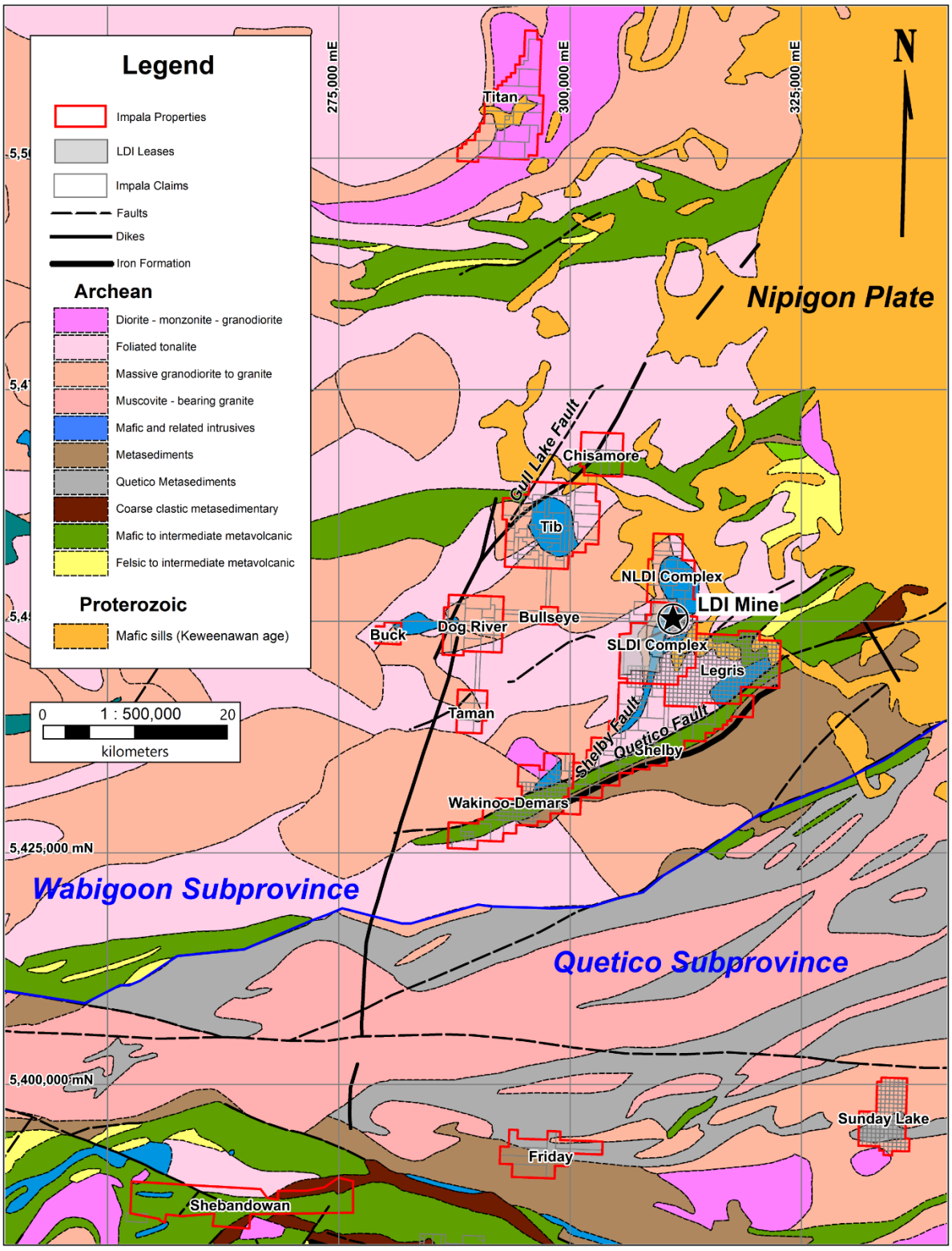

Figure 5: Regional geology of the Lac des Iles suite intrusions

Property Geology

A recent 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 Neoarchean-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 6). 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 Camp Lake Intrusion; a poorly exposed/documented gabbroic to dioritic intrusion, in the southwestern part of the property

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 6 and Figure 7). 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 2019 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 7). 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 gabbronorite 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 7).

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.

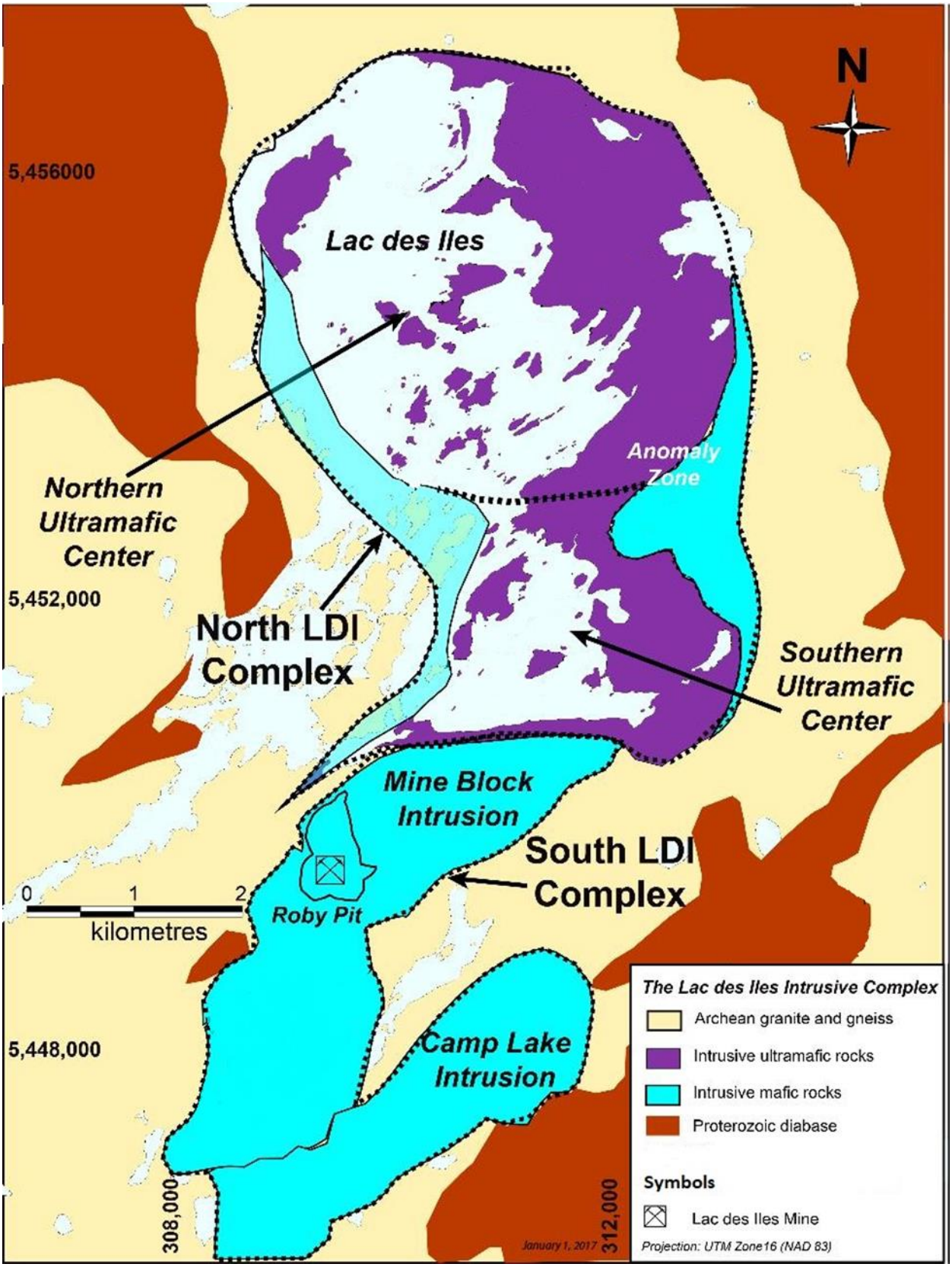

Figure 6: Simplified geology of the LDI intrusive complex (modified from Buss et al. 2017)

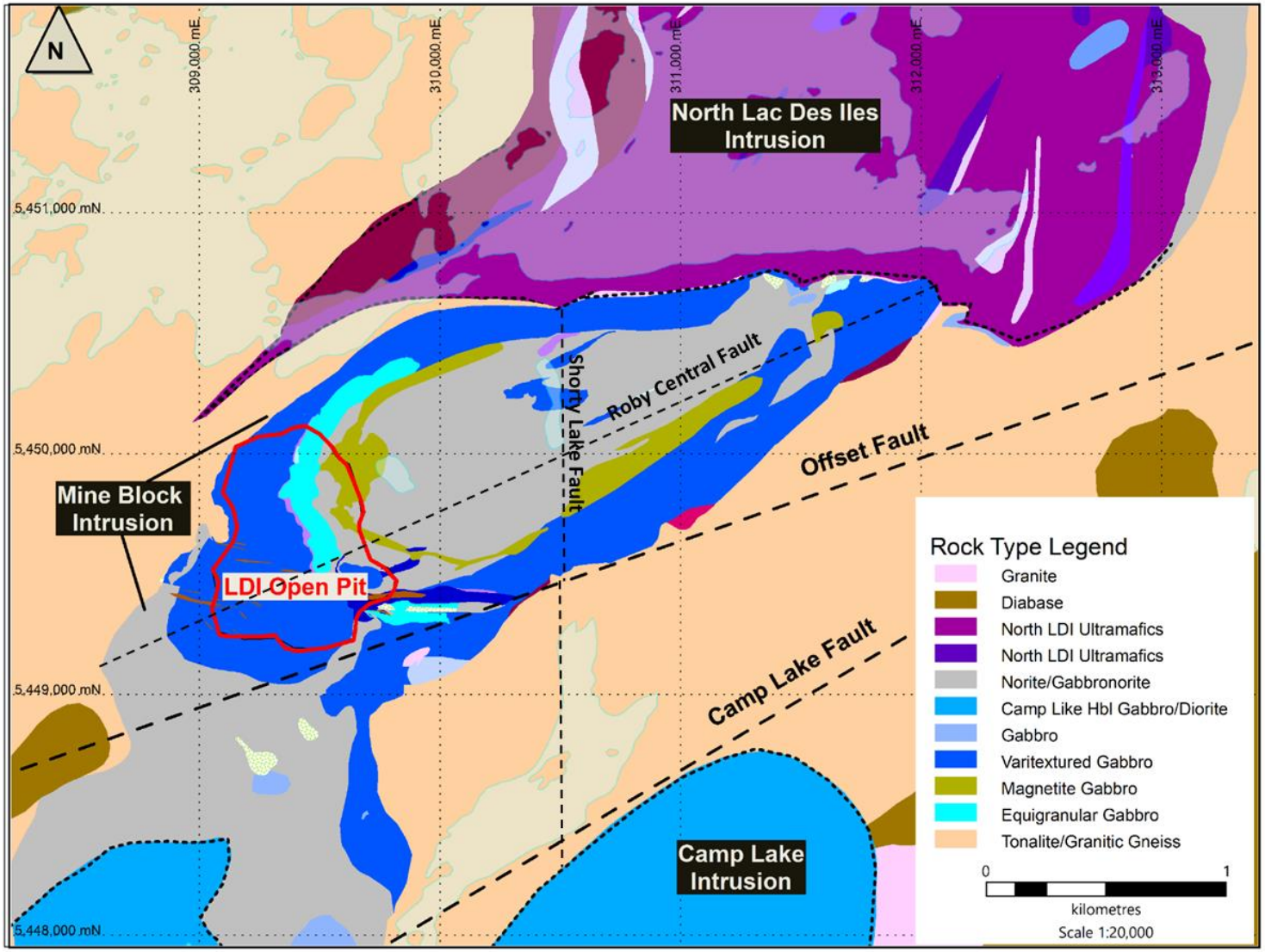

Figure 7: Simplified property geology, (modified from Buss et al. 2017)

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).*

2003: Drillhole 03-018 was drilled showing 9 meters at 19g/t in the B5 zone, just north of the B2 zone. A total of 29 exploration drillholes were completed.

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.

2018: Exploration completes 32 underground drillholes, targeting Offset South & Offset Deep Footwall/C-Zone.

Exploration Plans and Permits

Exploration activities for the 2019 B5 exploration program lie on Mining Lease 107911 (CLM 252). No permit was required for this program as all work on the property is covered by the Lac des Iles Mine Closure Plan.

2019 Diamond Drilling

Four diamond drill holes totaling 453 meters were completed by one drill contractor. G4 Forage, based from Val d'Or, Québec, supplied one diamond drill to complete the program and the drill operated for 8 days in total. The drill rig was set up underground on the 645 Level of the Mine. Upon completion of the drillhole, a downhole survey using a Reflex Gyro tool was completed and the upper 3 meters of the hole were cemented

The objective of this program was to test the extent of mineralization following a historical drill hole intercept: 9 meters of 19 g/t palladium in drill hole 03-018 (and others, see intro). The intercept was described as being hosted in medium-coarse-grained massive melanogabbro, and hosting trace to 0.5% disseminated sulphide.

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 brought up the shaft and delivered to the logging area by Lac Des Iles mine site employees. Each core 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. Exploration personnel delivered samples to ALS Laboratories in Thunder Bay where they were pre-processed and sent to ALS's Vancouver laboratory for analysis. A total of 485 samples were submitted for assay (448 samples and 37 QAQC articles), with totals sent for analysis for each hole outlined in Table 3. Assay highlights for the 2019 drill program are included in Table 4, with assay certificates in Appendix D.

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

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)
19-309	309537.66	5449277.97	-135.9	319.47	22.2	120
19-310	309538.34	5449278.68	-137.0	335.20	-1.28	111
19-311	309538.20	5449278.14	-138.0	323.86	-25.4	102
19-312	309538.72	5449277.65	-138.6	325.46	-54.2	123

Table 3: Total samples submitted from the 2019 diamond drilling program

Hole ID	Number of core samples sent for Assay (ALS)	Number of QA/QC items sent for Assay (ALS)	Total
19-309	122	10	
19-310	101	9	
19-311	102	7	
19-312	123	11	
Total	448	37	485

Results

19-309

Purpose: This hole was designed to test whether mineralization in 03-018 extends to the west.

With a final depth of 120 meters, 19-309 collared into a varitextured brecciated gabbro and intersected lithologies of pyroxenite, gabbronorite, brecciated norite, and brecciated gabbro respectively. Sulphide mineralization was observed in the pyroxenite unit with up to 1.5% pyrite,pyrrhotite and chalcopyrite corresponding to the highest assay value of 4.75 grams per tonne (g/t) Pd at 34-35 meters depth.

19-310

Purpose: This hole was designed to test the down dip continuity of mineralization intersected in 03-018.

With a final depth of 111 meters, 19-310 collared into a brecciated equigranular gabbro and intersected lithologies of pyroxenite, gabbro, norite, mafic dikes and magnetite norite. The most mineralization was observed in the norite and pyroxenite lithologies at 42.37-63.87 meters depth with up to 1.5% pyrrhotite and chalcopyrite mineralization. This mineralization correlated with the highest assay value, 3.51 g/t Pd at 49-50 meters depth.

19-311

Purpose: Hole 19-311 was testing the gap between mineralization intersected in 03-018 and 01-019.

With a final depth of 102 meters, 19-311 collared into gabbro and intersected lithologies of melanogabbro, gabbro, and varitextured gabbro. The most mineralization occurred in gabbro with 0.1-0.5% pyrrhotite and chalcopyrite which resulted in the highest assay value of 4.02 g/t Pd at 18-19 meters depth.

19-312

Purpose: Hole 19-312 was testing the gap between mineralization intersected in 03-018 and 01-019.

With a final depth of 123 meters, 19-312 collared into a varitexutred brecciated gabbro and intersected gabbro, pyroxenite, varitextured gabbro, and an intermediate dike. The most mineralization was observed in the pyroxenite with up to 1% blebby pyrite, pyrrhotite and chalcopyrite resulting in the highest assay value of 3.05 g/t Pd at 73.86-75 meters depth.

Table 4: Assay Highlights from the B5 target zone of the 2019 drill program

Hole_ID	Nested	From	To	Length (m)	Pt (g/t)	Pd (g/t)	Au (g/t)	Ni (%)	Cu (%)
19-309		**21.0**	**37.0**	**16.0**	0.16	1.07	0.08	0.06	0.07
19-309	*incl.*	32.0	36.0	4.0	0.42	2.88	0.23	0.14	0.15
19-309	*with*	33.2	35.0	1.8	0.61	**4.27**	0.32	0.19	0.21
19-310		**14.4**	**63.9**	**49.5**	0.17	**1.06**	0.11	0.07	0.08
19-310	*incl.*	43.3	52.0	8.7	0.33	**2.06**	0.24	0.15	0.15
19-310		**83.0**	**84.0**	**1.0**	0.23	1.12	0.09	0.05	0.05
19-311		**12.1**	**27.0**	**14.9**	0.17	**1.04**	0.09	0.08	0.08
19-311	*incl.*	13.0	20.0	7.0	0.32	2.02	0.18	0.13	0.15
19-311		**45.0**	**67.0**	**22.0**	0.18	**1.11**	0.09	0.08	0.07
19-311	*incl.*	52.0	54.0	2.0	0.36	2.20	0.25	0.17	0.16
19-311		**78.0**	**82.3**	**4.3**	0.17	**1.17**	0.07	0.05	0.04
19-312		**24.0**	**28.0**	**4.0**	0.34	**2.20**	0.16	0.12	0.16
19-312		**41.0**	**44.0**	**3.0**	0.18	**1.10**	0.07	0.08	0.07
19-312		**68.0**	**102.0**	**34.0**	0.16	1.00	0.11	0.06	0.07
19-312	*incl.*	73.9	86.0	12.1	0.35	2.22	0.26	0.13	0.14

Conclusions and Recommendations

Mineralization is hosted in a mix of lithologies with pyroxenite and altered norite typically carrying the most consistent palladium grade. Despite the elevated zones of palladium over large, continuous intersections of 35-50 meters (as shown in Table 4), the grade was not economic enough to warrant further drilling at this time. Furthermore, the B5 target is encompassed by the non-PGE carrying equigranular gabbro except along its southwest extent, limiting the viability of B5 as an economic ore body. The upper portion of the B5 target has been drilled with 15-30 m spacing between exploration drill holes and therefore does not require further delineation.

Statement of Expenditures

The total value of work completed on the 2019 B5 Drilling Project is summarized in Table 5. All expenditures are allocated to lease block 107911 (CLM 252) and a more detailed statement of expenditures is summarized in Table 6.

Table 5: Statement of expenditures for claims on the B5 drill program

Total Costs	
Personnel (LDI & Contractors)	$7,000.27
Food and Accomodation (Camp)	$8,717.25
Transportation	$217.50
Fuel	$108.75
Drilling	$53,651.51
Assay Analyses	$21,654.87
Downhole Survey Equipment	$3,197.91
Total Expenditure	**$94,548.06**
Meters Drilled	
453	CLM 252

Table 6: Detailed allocation of expenditures on the B5 Project

Personnel	Days	Cost
Geologist (80 m/day @ $525/day)	6	$2,972.81
Geological Technician (100 m/day @ $330/day)	4	$1,415.63
Core Cutter (80 m/day @ $330/day)	6	$1,868.63
Supervisor (Max Days *.5 @ $525/day)	3	$743.20
Total Cost		**$7,000.27**

Food and Accomodation (Camp)	Days	Cost ($40/day)
Geologist (No. Days)	6	$226.50
GeoTech (No. Days Tech)	4	$151.00
GeoTech (No. Days Saw)	6	$226.50
Supervisor/Manager (No. Days*.5)	3	$113.25
Drill Crew (4 + Supervisor)	40	$8,000.00
Total Days	58	**$8,717.25**

Assay Analyses		
Total Cost		**$21,654.87**

Transport- Personnel		
FUEL-Personnel Trips To/From Mine (7x7 Rotation, 50L/trip @ $1.00/L)	1	$50.00
VEHICLE COSTS-Trips (125km/trip*/.47km for maintenace, insurance, registration, etc)	1	$58.75
Total Cost		**$108.75**

Transport- Samples		
FUEL- Sample Trucks To From Lab (312 samples per trip, 50L/trip @ 1.00/L)	2	$100.00
VEHICLE COSTS (125km/trip*/.47km for maintenace, insurance, registration, etc)	2	$117.50
Total transport cost		**$217.50**

Drilling		
Total Cost		**$53,651.51**

Drillhole Survey Equipment (Reflex SPRINTIQ and TN-14)	
March (1/4 month)	$3,197.91
Total Cost	**$3,197.91**

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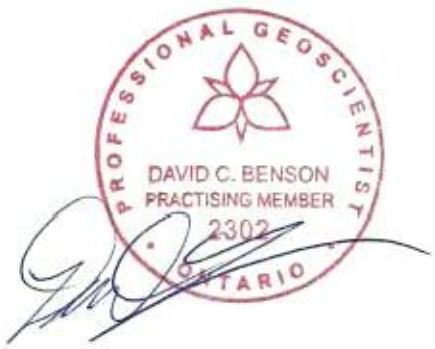
Statement of Qualifications

DAVID CHARLES BENSON
36 MARSTON DRIVE
HEADINGLEY, MB R4H 1J7
(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 of Manitoba in 2001.
4. I am currently the Exploration Manager for Impala Canada Ltd. and have been continually been employed by the company since 2012.
5. I have authored or co-authored seven (7) NI 43-101 Mineral Property Reports.

Respectfully submitted,



DATE: Dec. 16th, 2020

David Benson
Exploration Manager
Impala Canada Ltd.
556 Tenth Ave.
Thunder Bay, ON
(807) 448-2416
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-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 19-309

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,681.94	**Length:**	120.00
Location:		**East:**	32,179.39	**Hole Size:**	NQ
Start Date:	Mar 15, 2019	**Elev:**	-135.98	**Hole Type:**	DDH
Completed Date:	Mar 17, 2019	**Collar Dip:**	22.24	**Casing:**	No
Contractor:	G4 Forage Drilling	**Collar Az:**	319.47	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,277.97	**Multishot Survey:**	N
Start Log:	Apr 10, 2019	**East:**	309,537.66	**EOH:**	120.00
End Log:	Apr 11, 2019	**Elev:**	-135.98	**Artesian Cond:**	N
Logged By 1:	Jesse Koroscil	**Claim:**	252	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology
0.00	33.22	**GAB-VBx** 0.0 - 33.22m. Medium grey/green, mg locally foliated, Varitextured Gabbro Breccia. Chaoitc unit composed of Mg-Cg, equigranular Gabbro matrix with a mix of strongly altered Tonalitic clasts, Mafic dikes and deformed and broken Q+-felds veins. Narrow fault with strong foliation and gouge at 21.5-21.8m, veining and fol at 30dtca. Pervassive weak Chlorite-Actinolite alt. Local trace epidote and K along fractures. Moderately mineralized (0.3%) in patches with disseminated and fg blebby Py>>Cpy-Po Lower contact wtih Norite is marked by narrow

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129784	ASSAY	TB19089392	0.00	1.00	1.00	0.314	0.060	0.010	0.023	0.030	0.005
A0129785	ASSAY	TB19089392	1.00	2.00	1.00	0.163	0.029	0.008	0.019	0.021	0.004
A0129786	ASSAY	TB19089392	2.00	3.00	1.00	0.013	0.003	0.004	0.014	0.008	0.003
A0129787	ASSAY	TB19089392	3.00	4.00	1.00	0.054	0.011	0.001	0.007	0.008	0.002
A0129788	ASSAY	TB19089392	4.00	5.00	1.00	0.306	0.055	0.007	0.011	0.017	0.003
A0129789	ASSAY	TB19089392	5.00	6.00	1.00	0.176	0.037	0.003	0.009	0.017	0.004
A0129790	ASSAY	TB19089392	6.00	7.00	1.00	0.053	0.014	0.003	0.012	0.014	0.003
A0129791	ASSAY	TB19089392	7.00	8.00	1.00	0.006	0.003	0.001	0.004	0.007	0.002
A0129792	ASSAY	TB19089392	8.00	9.00	1.00	0.009	0.003	0.004	0.017	0.010	0.003

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
		Bleached/epidote alt intermediate dike from 32.56 - 33.22m.	A0129793	ASSAY	TB19089392	9.00	10.00	1.00	0.013	0.005	0.001	0.005	0.010	0.003
			A0129794	ASSAY	TB19089392	10.00	11.00	1.00	0.166	0.029	0.006	0.015	0.018	0.005
			A0129795	ASSAY	TB19089392	11.00	12.00	1.00	0.205	0.037	0.008	0.028	0.026	0.005
			A0129796	ASSAY	TB19089392	12.00	13.00	1.00	0.019	0.005	0.001	0.006	0.013	0.003
			A0129797	ASSAY	TB19089392	13.00	14.00	1.00	0.099	0.016	0.003	0.008	0.016	0.004
			A0129798	ASSAY	TB19089392	14.00	15.00	1.00	0.243	0.042	0.007	0.011	0.022	0.004
			A0129800	ASSAY	TB19089392	15.00	16.00	1.00	0.017	0.003	0.001	0.003	0.012	0.003
			A0129801	ASSAY	TB19089392	16.00	17.00	1.00	0.016	0.003	0.002	0.004	0.012	0.003
			A0129802	ASSAY	TB19089392	17.00	18.00	1.00	0.317	0.046	0.005	0.005	0.023	0.004
			A0129803	ASSAY	TB19089392	18.00	19.00	1.00	0.319	0.044	0.017	0.025	0.031	0.005
			A0129804	ASSAY	TB19089392	19.00	20.00	1.00	0.075	0.013	0.007	0.017	0.023	0.004
			A0129805	ASSAY	TB19089392	20.00	21.00	1.00	0.234	0.034	0.017	0.026	0.028	0.004
			A0129806	ASSAY	TB19089392	21.00	22.00	1.00	0.876	0.157	0.040	0.050	0.060	0.006
			A0129807	ASSAY	TB19089392	22.00	23.00	1.00	0.330	0.060	0.025	0.035	0.030	0.005
			A0129808	ASSAY	TB19089392	23.00	24.00	1.00	0.041	0.007	0.008	0.017	0.015	0.005
			A0129809	ASSAY	TB19089392	24.00	25.00	1.00	0.385	0.065	0.031	0.043	0.036	0.005
			A0129810	ASSAY	TB19089392	25.00	26.00	1.00	0.569	0.092	0.021	0.030	0.032	0.006
			A0129811	ASSAY	TB19089392	26.00	27.00	1.00	0.504	0.068	0.014	0.022	0.028	0.006
			A0129812	ASSAY	TB19089392	27.00	28.00	1.00	0.281	0.038	0.009	0.019	0.022	0.005
			A0129813	ASSAY	TB19089392	28.00	29.00	1.00	0.234	0.037	0.022	0.031	0.027	0.005
			A0129814	ASSAY	TB19089392	29.00	30.00	1.00	1.040	0.147	0.096	0.092	0.078	0.007
			A0129815	ASSAY	TB19098418	30.00	31.00	1.00	0.042	0.006	0.009	0.017	0.021	0.005
			A0129816	ASSAY	TB19098418	31.00	32.00	1.00	0.549	0.082	0.031	0.050	0.044	0.005
			A0129817	ASSAY	TB19098418	32.00	33.22	1.22	1.950	0.304	0.139	0.119	0.111	0.006

From	To	Lithology
33.22	50.40	**PYXT**

33.22 - 50.40m. Dark green, moderate to strongly foliated, mineralized Pyroxenite.
Moderate schistose foliation at variable angles to core axis. Unit starts out as narrow interval of strong alt Norite which quickly grades into the schistose Pyroxenite unit. Unit is split by a large quartz-felds vein which may indicate faulting or just a rubbled zone due to drilling and the competency contrast between quartz vien and schist.
Strong to extreme, pervasive Chlorite-Actinolite alt. pervasive moderate mag.
Mineralization is dominantly fg, tucks into schistose foliation with only minor blebby sulphide observed. Mineralization is variable in patches, running from 0.5-1.5%. Overall unit hosts around 1% sulphide, Py>>Po-Cpy.
Upper and lower contacts are sharp and planar, marked by narrow Intermediate dikes. Upper contact at 30dtca. Lower contact at 60dtca.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129818	ASSAY	TB19098418	33.22	34.00	0.78	3.660	0.578	0.323	0.230	0.178	0.009
A0129820	ASSAY	TB19098418	34.00	35.00	1.00	4.750	0.638	0.318	0.197	0.197	0.011
A0129821	ASSAY	TB19098418	35.00	36.00	1.00	1.520	0.201	0.167	0.078	0.083	0.011
A0129822	ASSAY	TB19098418	36.00	37.00	1.00	0.745	0.129	0.072	0.090	0.085	0.013
A0129823	ASSAY	TB19098418	37.00	38.00	1.00	0.127	0.023	0.016	0.017	0.037	0.010
A0129824	ASSAY	TB19098418	38.00	39.00	1.00	0.021	0.005	0.003	0.006	0.030	0.009
A0129825	ASSAY	TB19089392	39.00	40.00	1.00	0.021	0.003	0.002	0.007	0.030	0.009
A0129826	ASSAY	TB19089392	40.00	41.00	1.00	0.025	0.006	0.003	0.009	0.030	0.010
A0129827	ASSAY	TB19089392	41.00	42.00	1.00	0.020	0.005	0.001	0.006	0.028	0.009
A0129828	ASSAY	TB19089392	42.00	43.50	1.50	0.002	0.003	0.002	0.009	0.003	0.001
A0129829	ASSAY	TB19089392	43.50	44.00	0.50	0.023	0.003	0.001	0.009	0.029	0.009
A0129830	ASSAY	TB19089392	44.00	45.00	1.00	0.020	0.003	0.001	0.008	0.031	0.010
A0129831	ASSAY	TB19089392	45.00	46.00	1.00	0.019	0.003	0.001	0.008	0.029	0.009
A0129832	ASSAY	TB19089392	46.00	47.00	1.00	0.032	0.009	0.003	0.012	0.030	0.009
A0129833	ASSAY	TB19089392	47.00	48.00	1.00	0.061	0.012	0.005	0.016	0.034	0.010
A0129834	ASSAY	TB19089392	48.00	49.00	1.00	0.032	0.008	0.005	0.012	0.034	0.009
A0129835	ASSAY	TB19089392	49.00	49.75	0.75	0.025	0.006	0.003	0.007	0.032	0.009
A0129839	ASSAY	TB19089390	49.75	50.40	0.65	0.112	0.026	0.011	0.027	0.041	0.009

From	To	Lithology
50.40	75.20	**GBNR**

50.40 - 75.20m. Dark green, mg, strongly altered, weakly magnetic Norite.
Unit seems to be patchy, verging on pyroxenite with narrow lenses of fresh norite throughout.
Contacts with the fresh norite are often distinct but difuse. Many look like small xenos of fresh norite nand interval may represent a magma mixing zone.
Plag content varies from 10-15, orange or beige hue.
Strong to extreme Chlorite -Actinolite alt. Unit does exhibit patches of schistose foliation.
Mineralization in this unit seems to decrease relative to previous. Pyrite strongly dominant over Po-Cpy. When blebby and fractionated Py often with Cpy, lacking Po. Overall unit hosts 0.2-0.5%.
Lower contact with a narrow breccia unit is sharp, planar and marked by a narrow mafic dike.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129840	ASSAY	TB19089390	50.40	51.00	0.60	0.035	0.008	0.004	0.008	0.033	0.010
A0129841	ASSAY	TB19089390	51.00	52.00	1.00	0.026	0.005	0.002	0.005	0.028	0.009
A0129842	ASSAY	TB19089390	52.00	53.00	1.00	0.021	0.007	0.001	0.004	0.028	0.009
A0129843	ASSAY	TB19089390	53.00	54.00	1.00	0.023	0.005	0.001	0.004	0.027	0.009
A0129844	ASSAY	TB19089390	54.00	55.00	1.00	0.033	0.008	0.002	0.004	0.027	0.009
A0129845	ASSAY	TB19089390	55.00	56.00	1.00	0.036	0.009	0.003	0.007	0.029	0.009
A0129846	ASSAY	TB19089390	56.00	57.00	1.00	0.077	0.019	0.007	0.014	0.032	0.008
A0129847	ASSAY	TB19089390	57.00	58.00	1.00	0.109	0.020	0.008	0.017	0.036	0.009
A0129848	ASSAY	TB19089390	58.00	59.00	1.00	0.062	0.015	0.005	0.012	0.033	0.009
A0129849	ASSAY	TB19089390	59.00	60.00	1.00	0.079	0.016	0.007	0.015	0.037	0.009
A0129850	ASSAY	TB19089390	60.00	61.00	1.00	0.065	0.016	0.007	0.012	0.035	0.010
A0129851	ASSAY	TB19089390	61.00	62.00	1.00	0.055	0.012	0.005	0.011	0.034	0.010
A0129852	ASSAY	TB19089390	62.00	63.00	1.00	0.067	0.014	0.008	0.012	0.034	0.009
A0129853	ASSAY	TB19089390	63.00	64.00	1.00	0.082	0.017	0.009	0.016	0.035	0.009
A0129854	ASSAY	TB19089390	64.00	65.00	1.00	0.079	0.015	0.008	0.017	0.037	0.009
A0129855	ASSAY	TB19089390	65.00	66.00	1.00	0.079	0.018	0.007	0.014	0.039	0.010
A0129856	ASSAY	TB19089390	66.00	67.00	1.00	0.090	0.019	0.008	0.014	0.040	0.010
A0129858	ASSAY	TB19089390	67.00	68.00	1.00	0.064	0.018	0.007	0.012	0.035	0.009
A0129859	ASSAY	TB19089390	68.00	69.00	1.00	0.033	0.009	0.003	0.007	0.029	0.009
A0129860	ASSAY	TB19089390	69.00	70.00	1.00	0.081	0.020	0.008	0.011	0.033	0.008
A0129861	ASSAY	TB19089390	70.00	71.00	1.00	0.046	0.012	0.004	0.009	0.032	0.009
A0129862	ASSAY	TB19089390	71.00	72.00	1.00	0.053	0.012	0.004	0.010	0.032	0.009
A0129863	ASSAY	TB19089390	72.00	73.00	1.00	0.040	0.010	0.003	0.008	0.030	0.009
A0129864	ASSAY	TB19089390	73.00	74.00	1.00	0.029	0.008	0.008	0.015	0.025	0.007
A0129865	ASSAY	TB19089390	74.00	74.55	0.55	0.052	0.011	0.003	0.009	0.030	0.008
A0129866	ASSAY	TB19089390	74.55	75.20	0.65	0.006	0.003	0.001	0.008	0.004	0.004

From	To	Lithology
75.20	93.89	**NOR-Bx** 75.20 - 93.89m. med to light green, Mg, Strong to extreme alt Norite Breccia. Interval lacks consistent schistosity and hosts several strongly deformed/gneissic tonalitic clasts and quartz veins. Pyroxenite with strong schistose foliation up against EGAB contact at 93.89m. Strong to extreme Chlorite-Actinolite alt. Roughly 80% strong alt. Weakly mineralized throughout, avg 0.2-0.3% diss Py>>Cpy-Po. Lower contact with EGAB is sharp, planar at 70dtca.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129867	ASSAY	TB19089390	75.20	76.00	0.80	0.055	0.011	0.005	0.011	0.034	0.009
A0129868	ASSAY	TB19089390	76.00	77.00	1.00	0.078	0.013	0.007	0.012	0.036	0.009
A0129869	ASSAY	TB19089390	77.00	78.00	1.00	0.049	0.010	0.005	0.009	0.030	0.009
A0129870	ASSAY	TB19089390	78.00	79.00	1.00	0.044	0.012	0.005	0.012	0.031	0.009
A0129871	ASSAY	TB19089390	79.00	80.00	1.00	0.049	0.010	0.004	0.011	0.027	0.007
A0129872	ASSAY	TB19089390	80.00	81.00	1.00	0.036	0.010	0.003	0.007	0.028	0.008
A0129873	ASSAY	TB19089390	81.00	82.00	1.00	0.046	0.009	0.004	0.008	0.028	0.008
A0129874	ASSAY	TB19089390	82.00	83.00	1.00	0.041	0.011	0.003	0.009	0.027	0.007
A0129875	ASSAY	TB19089390	83.00	84.00	1.00	0.048	0.011	0.004	0.010	0.029	0.008
A0129876	ASSAY	TB19089390	84.00	85.00	1.00	0.052	0.010	0.009	0.009	0.029	0.008
A0129878	ASSAY	TB19089390	85.00	86.00	1.00	0.038	0.008	0.001	0.003	0.025	0.007
A0129879	ASSAY	TB19089390	86.00	87.00	1.00	0.040	0.010	0.002	0.008	0.028	0.007
A0129880	ASSAY	TB19089390	87.00	88.00	1.00	0.104	0.019	0.005	0.008	0.030	0.008
A0129881	ASSAY	TB19089390	88.00	89.00	1.00	0.054	0.015	0.008	0.011	0.029	0.008
A0129882	ASSAY	TB19089390	89.00	90.00	1.00	0.056	0.010	0.005	0.012	0.030	0.008
A0129883	ASSAY	TB19089390	90.00	91.00	1.00	0.030	0.008	0.003	0.008	0.032	0.008
A0129884	ASSAY	TB19089390	91.00	92.00	1.00	0.063	0.020	0.005	0.009	0.024	0.007
A0129885	ASSAY	TB19089390	92.00	93.00	1.00	0.083	0.027	0.015	0.031	0.036	0.008
A0129886	ASSAY	TB19089390	93.00	93.89	0.89	0.041	0.010	0.008	0.018	0.031	0.009

From	To	Lithology
93.89	120.00	**GAB-Bx**

93.89 - 120.00m. Med grey/green, mg-cg, weakly mineralized Gabbro.
Unit is similar in appearence to an EGAB. Lacks equigranular texture and pristine grain boundaries. Unit hosts narrow pyroxenite units proximal to contact. Narrow mineralized finger of pyroxenite from 96.3 - 97.2m. In both cases mg euhedral Py is hosted within the pyroxenite within 20cm of contact areas.
Patchy weak foliation at random orientations. Several narrow sericite bands cut core between 50-80dtca.
Pervassive weak Chlorite-Actinolite alt.
Trace euhedral, fg, disseminated Pyrite throughout.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129887	ASSAY	TB19089390	93.89	95.00	1.11	0.050	0.011	0.007	0.020	0.018	0.004
A0129888	ASSAY	TB19089390	95.00	96.30	1.30	0.143	0.027	0.012	0.031	0.017	0.004
A0129889	ASSAY	TB19089390	96.30	97.20	0.90	0.046	0.010	0.005	0.017	0.031	0.010
A0129890	ASSAY	TB19089390	97.20	98.00	0.80	0.084	0.018	0.005	0.018	0.015	0.004
A0129891	ASSAY	TB19089390	98.00	99.00	1.00	0.234	0.039	0.015	0.036	0.018	0.004
A0129892	ASSAY	TB19089390	99.00	100.00	1.00	0.036	0.008	0.004	0.013	0.011	0.003
A0129893	ASSAY	TB19089390	100.00	101.00	1.00	0.078	0.019	0.009	0.020	0.014	0.004
A0129894	ASSAY	TB19089390	101.00	102.00	1.00	0.024	0.006	0.004	0.012	0.009	0.003
A0129895	ASSAY	TB19089390	102.00	103.00	1.00	0.031	0.009	0.005	0.014	0.012	0.004
A0129896	ASSAY	TB19089390	103.00	104.00	1.00	0.045	0.011	0.006	0.017	0.011	0.004
A0129898	ASSAY	TB19089390	104.00	105.00	1.00	0.017	0.006	0.002	0.010	0.012	0.003
A0129899	ASSAY	TB19089390	105.00	106.00	1.00	0.017	0.005	0.011	0.028	0.010	0.004
A0129900	ASSAY	TB19089390	106.00	107.00	1.00	0.017	0.006	0.004	0.013	0.010	0.004
A0129901	ASSAY	TB19089390	107.00	108.00	1.00	0.016	0.005	0.009	0.032	0.009	0.004
A0129902	ASSAY	TB19089390	108.00	109.00	1.00	0.016	0.003	0.007	0.024	0.009	0.004
A0129903	ASSAY	TB19089390	109.00	110.00	1.00	0.013	0.003	0.007	0.029	0.006	0.003
A0129904	ASSAY	TB19089390	110.00	111.00	1.00	0.016	0.005	0.004	0.015	0.009	0.004
A0129905	ASSAY	TB19089390	111.00	112.00	1.00	0.016	0.005	0.001	0.006	0.009	0.004
A0129906	ASSAY	TB19089390	112.00	113.00	1.00	0.016	0.005	0.002	0.005	0.010	0.004
A0129907	ASSAY	TB19089390	113.00	114.00	1.00	0.014	0.005	0.002	0.011	0.009	0.003
A0129908	ASSAY	TB19089390	114.00	115.00	1.00	0.016	0.005	0.002	0.008	0.009	0.003
A0129909	ASSAY	TB19089390	115.00	116.00	1.00	0.014	0.003	0.010	0.029	0.008	0.003
A0129910	ASSAY	TB19089390	116.00	117.00	1.00	0.007	0.003	0.023	0.024	0.004	0.002
A0129911	ASSAY	TB19089390	117.00	118.00	1.00	0.012	0.005	0.007	0.039	0.007	0.003
A0129912	ASSAY	TB19089390	118.00	119.00	1.00	0.015	0.005	0.002	0.023	0.009	0.003
A0129913	ASSAY	TB19089390	119.00	120.00	1.00	0.021	0.007	0.004	0.023	0.009	0.003

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	319.49	22.12	SPRINTIQ	O	
5.00	319.47	22.27	SPRINTIQ	O	
10.00	319.47	22.31	SPRINTIQ	O	
15.00	319.51	22.28	SPRINTIQ	O	
20.00	319.53	22.22	SPRINTIQ	O	
25.00	319.58	22.14	SPRINTIQ	O	
30.00	319.64	22.07	SPRINTIQ	O	
35.00	319.70	22.04	SPRINTIQ	O	
40.00	319.75	22.07	SPRINTIQ	O	
45.00	319.84	22.12	SPRINTIQ	O	
50.00	319.88	22.13	SPRINTIQ	O	
55.00	319.94	22.12	SPRINTIQ	O	
60.00	319.98	22.11	SPRINTIQ	O	
65.00	320.04	22.11	SPRINTIQ	O	
70.00	320.10	22.12	SPRINTIQ	O	
75.00	320.14	22.15	SPRINTIQ	O	
80.00	320.25	22.16	SPRINTIQ	O	
85.00	320.29	22.17	SPRINTIQ	O	
90.00	320.33	22.20	SPRINTIQ	O	
95.00	320.35	22.21	SPRINTIQ	O	
100.00	320.41	22.24	SPRINTIQ	O	

Detailed Log Report
Hole Number 19-310

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,682.67	**Length:**	111.00
Location:		**East:**	32,180.04	**Hole Size:**	NQ
Start Date:	Mar 17, 2019	**Elev:**	-137.00	**Hole Type:**	DDH
Completed Date:	Mar 18, 2019	**Collar Dip:**	-1.28	**Casing:**	No
Contractor:	G4 Forage Drilling	**Collar Az:**	335.20	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,278.68	**Multishot Survey:**	N
Start Log:	Mar 30, 2019	**East:**	309,538.34	**EOH:**	111.00
End Log:	Mar 31, 2019	**Elev:**	-137.00	**Artesian Cond:**	N
Logged By 1:	Brigitte Gelinas	**Claim:**	252	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology
0.00	14.41	**EGAB-Bx** 0 - 14.41m / EGAB Medium-grained, equigranular, foliated East Gabbro breccia. 50% plag, 50% altered to non-altered pyroxene First 6.5m host 25% tonalite/felsic clasts with sharp ctcts weak to moderate pervasive chl-act alt Trace disseminated py Penetrative foliation throughout unit Sharp lower ctct with pyroxenite

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0146994	ASSAY	TB19125155	9.00	10.00	1.00	0.022	0.005	0.007	0.030	0.019	0.006
A0146995	ASSAY	TB19125155	10.00	11.00	1.00	0.084	0.014	0.009	0.019	0.014	0.004
A0146996	ASSAY	TB19125155	11.00	12.00	1.00	0.012	0.003	0.011	0.047	0.015	0.005
A0146997	ASSAY	TB19125155	12.00	13.10	1.10	0.143	0.019	0.008	0.024	0.022	0.005
A0146998	ASSAY	TB19125155	13.10	14.41	1.31	0.020	0.003	0.002	0.008	0.015	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
14.41	17.13	**PYXT** 14.41 - 17.13m / PYXT Green, medium-grained, massive to foliated pyroxenite 90% altered pyroxene, <10% plag Strong pervasive chl-act alt Weak to moderate foliation. 0.5% patchy disseminated Py-Po. Sharp upper and lower contact with gabbro.	A0146999	ASSAY	TB19125155	14.41	15.81	1.40	0.589	0.093	0.036	0.047	0.067	0.011
			A0147000	ASSAY	TB19125155	15.81	17.13	1.32	0.333	0.060	0.038	0.032	0.052	0.009
17.13	38.17	**GAB** 17.13 - 38.17m / GAB Green, medium-grained, equigranular, moderately altered, foliated gabbro. 40-50% plag, 50-60% altered pyroxene. moderate to strong pervasive chl-act alt. Trace to 0.5-1% Po-Ccp patchy disseminated. Lower contact marked by felsic vein (2cm thick) and stronger fabric.	A0147001	ASSAY	TB19125155	17.13	18.00	0.87	0.030	0.006	0.002	0.011	0.013	0.005
			A0147002	ASSAY	TB19125155	18.00	19.00	1.00	0.117	0.015	0.010	0.013	0.013	0.006
			A0147003	ASSAY	TB19125155	19.00	20.00	1.00	0.016	0.003	0.312	0.060	0.011	0.007
			A0147004	ASSAY	TB19125155	20.00	21.00	1.00	0.039	0.007	0.009	0.016	0.011	0.007
			A0147005	ASSAY	TB19125155	21.00	22.00	1.00	0.005	0.003	0.002	0.008	0.009	0.006
			A0147006	ASSAY	TB19125155	22.00	23.00	1.00	0.011	0.003	0.007	0.011	0.010	0.006
			A0147007	ASSAY	TB19125155	23.00	24.00	1.00	0.008	0.003	0.006	0.008	0.009	0.006
			A0147008	ASSAY	TB19125155	24.00	25.00	1.00	0.017	0.003	0.004	0.009	0.010	0.006
			A0147009	ASSAY	TB19125155	25.00	26.00	1.00	0.599	0.094	0.045	0.048	0.040	0.006
			A0147010	ASSAY	TB19125155	26.00	27.00	1.00	0.627	0.103	0.049	0.044	0.039	0.006
			A0147012	ASSAY	TB19125155	27.00	28.00	1.00	1.030	0.164	0.066	0.063	0.053	0.006
			A0147013	ASSAY	TB19125155	28.00	29.00	1.00	1.940	0.307	0.155	0.130	0.095	0.008
			A0147014	ASSAY	TB19125155	29.00	30.00	1.00	0.991	0.162	0.085	0.073	0.050	0.006
			A0147015	ASSAY	TB19125155	30.00	31.00	1.00	0.197	0.036	0.026	0.048	0.016	0.003
			A0147016	ASSAY	TB19125155	31.00	32.00	1.00	0.887	0.142	0.009	0.068	0.061	0.006
			A0147017	ASSAY	TB19125155	32.00	33.00	1.00	0.750	0.114	0.024	0.055	0.059	0.006
			A0147018	ASSAY	TB19125155	33.00	34.00	1.00	2.030	0.325	0.144	0.143	0.124	0.008
			A0147019	ASSAY	TB19125155	34.00	35.00	1.00	0.855	0.141	0.033	0.049	0.065	0.006
			A0147020	ASSAY	TB19125155	35.00	36.00	1.00	0.625	0.099	0.046	0.056	0.042	0.006
			A0147021	ASSAY	TB19125155	36.00	37.00	1.00	0.627	0.100	0.034	0.052	0.044	0.006
			A0147022	ASSAY	TB19125155	37.00	38.17	1.17	0.966	0.136	0.017	0.034	0.068	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
38.17	39.57	**NOR** 38.17 - 39.57m / NOR Dark green, medium-grained, equigranular, foliated norite 80% altered pyroxene, 20% plag strong pervasive chl-act alt trace to 0.5% diseminated Po>Ccp Moderate to strongly foliated Sharp upper and lower contact, strong fracturing in vicinity of contacts.	A0147023	ASSAY	TB19125155	38.17	39.57	1.40	3.440	0.571	0.380	0.227	0.212	0.012
39.57	43.27	**DIKE-Mafic** 39.57 - 43.27m / M. DIKE Fine-grained, mafic dike Abundant fracturing marked by ser-Na-alt fracture controled alt. Trace disseminated pyrite	A0147024	ASSAY	TB19125155	39.57	41.00	1.43	0.404	0.068	0.028	0.032	0.043	0.005
			A0147025	ASSAY	TB19125155	41.00	42.00	1.00	0.098	0.021	0.014	0.019	0.028	0.005
			A0147026	ASSAY	TB19125155	42.00	43.27	1.27	0.127	0.026	0.015	0.026	0.030	0.004
43.27	57.92	**NOR** 43.27 - 57.92m / NOR Dark green, medium-grained, equigranular, strongly altered norite. 80% altered pyroxene, 20% plag. Local intervals with >90% altered pyroxene (non-foliated pyroxenite intervals). strong pervasive chl-act alt 1% patchy disseminated to blebby Po>Ccp over 9m from 43.27-52.13m. Blebby interval from 44.4-49.1m. 1-1.5% patchy disseminated to blebby Po>Ccp from 53.78-55.44m. Locally weakly foliated. Sharp irregular contact with lower pyroxenite.	A0147027	ASSAY	TB19125155	43.27	44.00	0.73	3.390	0.536	0.220	0.207	0.180	0.007
			A0147031	ASSAY	TB19125155	44.00	45.00	1.00	2.220	0.359	0.276	0.149	0.136	0.008
			A0147032	ASSAY	TB19125155	45.00	46.00	1.00	1.070	0.164	0.112	0.069	0.085	0.007
			A0147033	ASSAY	TB19125155	46.00	47.00	1.00	0.521	0.076	0.070	0.035	0.055	0.006
			A0147034	ASSAY	TB19125155	47.00	48.00	1.00	1.150	0.182	0.098	0.061	0.084	0.007
			A0147035	ASSAY	TB19125155	48.00	49.00	1.00	2.090	0.335	0.288	0.136	0.143	0.008
			A0147036	ASSAY	TB19125155	49.00	50.00	1.00	3.510	0.565	0.421	0.247	0.231	0.012
			A0147037	ASSAY	TB19125155	50.00	51.00	1.00	2.130	0.350	0.251	0.146	0.146	0.008
			A0147038	ASSAY	TB19125155	51.00	52.00	1.00	2.830	0.426	0.423	0.204	0.198	0.009
			A0147039	ASSAY	TB19125155	52.00	53.00	1.00	0.770	0.119	0.061	0.046	0.054	0.005
			A0147040	ASSAY	TB19125155	53.00	54.00	1.00	0.367	0.054	0.043	0.031	0.038	0.004
			A0147041	ASSAY	TB19125155	54.00	55.00	1.00	2.090	0.274	0.210	0.113	0.135	0.009
			A0147042	ASSAY	TB19125155	55.00	56.00	1.00	2.020	0.338	0.219	0.152	0.135	0.011
			A0147043	ASSAY	TB19125155	56.00	57.00	1.00	1.380	0.205	0.124	0.117	0.089	0.006
			A0147044	ASSAY	TB19125155	57.00	57.92	0.92	1.020	0.152	0.128	0.095	0.075	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
57.92	63.87	**PYXT** 57.92 - 63.87m / PYXT Dark green, medium-grained, foliated, strongly altered pyroxenite. >90% altered pyroxene. VT GAB interval from 60.73-61.72m with 0.5% disseminated Po>Ccp. Strong pervasive chl-act alt. Weak to strong foliation throughout. 1-1.5% patchy disseminated to blebby Po>Ccp from 57.92-60.73m and 1% 61.87-63.87m. Sharp lower contact with NOR.	A0147045	ASSAY	TB19125155	57.92	59.00	1.08	1.760	0.300	0.214	0.127	0.114	0.011
			A0147046	ASSAY	TB19125155	59.00	60.00	1.00	1.760	0.289	0.260	0.123	0.103	0.012
			A0147047	ASSAY	TB19125155	60.00	60.73	0.73	1.980	0.329	0.251	0.149	0.113	0.011
			A0147048	ASSAY	TB19125155	60.73	61.72	0.99	0.516	0.080	0.036	0.029	0.040	0.005
			A0147050	ASSAY	TB19125155	61.72	62.76	1.04	1.470	0.246	0.084	0.079	0.083	0.012
			A0147051	ASSAY	TB19125155	62.76	63.87	1.11	1.610	0.258	0.163	0.114	0.085	0.010
63.87	75.17	**NOR** 63.87 - 75.17m / NOR White and green, medium-grained, equigranular, weakly foliated to massive, altered norite. 60-80% altered pyroxene, 20-40% plag. Common intervals of GAB but alteration overprints primary features, making it difficult to distinguish between NOR and GAB. Trace to nil Py-Po. Foliation is weak to none. sharp contacts on dike	A0147052	ASSAY	TB19125155	63.87	65.00	1.13	0.155	0.022	0.011	0.016	0.021	0.004
			A0147053	ASSAY	TB19125155	65.00	66.00	1.00	0.079	0.008	0.002	0.005	0.019	0.004
			A0147054	ASSAY	TB19125155	66.00	67.00	1.00	0.022	0.003	0.002	0.005	0.020	0.004
			A0147055	ASSAY	TB19125155	67.00	68.00	1.00	0.012	0.003	0.001	0.002	0.021	0.005
			A0147056	ASSAY	TB19125155	68.00	69.00	1.00	0.015	0.003	0.003	0.003	0.019	0.005
			A0147057	ASSAY	TB19125155	69.00	70.00	1.00	0.011	0.003	0.001	0.003	0.020	0.005
			A0147058	ASSAY	TB19125155	70.00	71.00	1.00	0.012	0.003	0.001	0.003	0.019	0.005
			A0147059	ASSAY	TB19125155	71.00	72.00	1.00	0.011	0.003	0.001	0.004	0.018	0.005
			A0147060	ASSAY	TB19125155	72.00	73.00	1.00	0.010	0.003	0.001	0.003	0.017	0.005
			A0147061	ASSAY	TB19125155	73.00	74.00	1.00	0.009	0.003	0.001	0.004	0.017	0.005
			A0147062	ASSAY	TB19125155	74.00	75.17	1.17	0.022	0.003	0.004	0.008	0.017	0.004
75.17	76.44	**DIKE-Mafic** 75.17 - 76.44m / M. DIKE Fine-grained, mafic dike Trace pyrite Thin veinlets unoriented throughout with no alt halos Sharp contacts	A0147063	ASSAY	TB19125155	75.17	76.44	1.27	0.001	0.003	0.001	0.006	0.001	0.003

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
76.44	88.00	**NOR** 76.44 - 88.00m / NOR White and green, medium-grained, equigranular, weakly foliated to massive, altered norite. 60-80% altered pyroxene, 20-40% plag. Common intervals of GAB but alteration overprints primary features, making it difficult to distinguish between NOR and GAB. Trace to nil Py-Po until 83.30m where a 23cm interval of 1% disseminated Py-Ccp-Po is present. Foliation is weak to none. sharp contacts on dike, and sharp contact marked by increase in mag to Mt NOR.	A0147064	ASSAY	TB19125155	76.44	77.18	0.74	0.007	0.003	0.001	0.003	0.016	0.005
			A0147065	ASSAY	TB19125155	77.18	78.00	0.82	0.009	0.003	0.001	0.005	0.016	0.005
			A0147066	ASSAY	TB19125155	78.00	79.00	1.00	0.009	0.003	0.001	0.003	0.019	0.005
			A0147067	ASSAY	TB19125155	79.00	80.00	1.00	0.010	0.003	0.001	0.004	0.019	0.006
			A0147068	ASSAY	TB19125155	80.00	81.00	1.00	0.008	0.003	0.001	0.004	0.021	0.006
			A0147070	ASSAY	TB19125155	81.00	82.00	1.00	0.007	0.003	0.001	0.003	0.017	0.005
			A0147071	ASSAY	TB19125155	82.00	83.00	1.00	0.478	0.097	0.014	0.007	0.024	0.006
			A0147072	ASSAY	TB19125155	83.00	84.00	1.00	1.120	0.231	0.088	0.050	0.045	0.007
			A0147073	ASSAY	TB19125155	84.00	85.00	1.00	0.014	0.003	0.005	0.008	0.033	0.007
			A0147074	ASSAY	TB19125155	85.00	86.00	1.00	0.006	0.003	0.003	0.008	0.022	0.005
			A0147075	ASSAY	TB19125155	86.00	87.00	1.00	0.007	0.003	0.001	0.004	0.019	0.005
			A0147076	ASSAY	TB19125155	87.00	88.00	1.00	0.005	0.003	0.001	0.004	0.023	0.006
88.00	90.00	**NOR-Mt** 88.00 - 90.00m / Mt NOR Green, medium-grained, equigranular, weakly foliated to massive, magnetite norite. 70-80% altered pyroxene, 20-30% plag. strong pervasive chl-act alt 5-10% magnetite, >100 kappa Sharp drop in magnetite marks the change to NOR.	A0147077	ASSAY	TB19125155	88.00	89.00	1.00	0.008	0.003	0.001	0.003	0.042	0.010
			A0147078	ASSAY	TB19125155	89.00	90.00	1.00	0.008	0.003	0.001	0.004	0.040	0.010
90.00	95.58	**NOR** 90.00-95.58m / NOR White and green, medium-grained, equigranular, weakly foliated to massive, altered norite. 60-80% altered pyroxene, 20-40% plag. Common intervals of GAB but alteration overprints primary features, making it difficult to distinguish between NOR and GAB. VT GAB interval from 94.26-95.06m. Nil mineralization, mag drops to <100 kappa. Foliation is weak to none.	A0147079	ASSAY	TB19125155	90.00	91.00	1.00	0.013	0.003	0.001	0.007	0.025	0.007
			A0147080	ASSAY	TB19125155	91.00	92.00	1.00	0.011	0.003	0.001	0.007	0.016	0.005
			A0147081	ASSAY	TB19125155	92.00	93.00	1.00	0.009	0.003	0.001	0.006	0.017	0.005
			A0147082	ASSAY	TB19125155	93.00	94.00	1.00	0.009	0.003	0.001	0.005	0.017	0.005
			A0147083	ASSAY	TB19125155	94.00	94.81	0.81	0.005	0.003	0.002	0.008	0.013	0.004
			A0147084	ASSAY	TB19125155	94.81	95.58	0.77	0.009	0.003	0.004	0.011	0.017	0.005
95.58	97.15	**NOR-Mt** 95.58-97.15m / Mt NOR Green, medium-grained, equigranular, weakly foliated to massive, magnetite norite. 70-80% altered pyroxene, 20-30% plag. strong pervasive chl-act alt Nil sulphides. 5-10% magnetite, >100 kappa	A0147085	ASSAY	TB19125155	95.58	96.39	0.81	0.008	0.003	0.003	0.014	0.027	0.006
			A0147086	ASSAY	TB19125155	96.39	97.15	0.76	0.011	0.003	0.005	0.019	0.029	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
97.15	98.30	**DIKE-Mafic** 97.15-98.30m / M. DIKE Fine-grained, mafic dike Consistent felsic stringers throughout. Sharp contact	A0147087	ASSAY	TB19125155	97.15	98.30	1.15	0.001	0.003	0.003	0.013	0.003	0.004
98.30	111.00	**NOR-Mt** 98.30-111.00m / Mt NOR Green, medium-grained, equigranular, weakly foliated to massive, magnetite norite. 70-80% altered pyroxene, 20-30% plag. strong pervasive chl-act alt Nil sulphides. 5-10% magnetite, >100 kappa	A0147088	ASSAY	TB19125155	98.30	99.15	0.85	0.014	0.003	0.054	0.018	0.027	0.006
			A0147090	ASSAY	TB19125155	99.15	100.00	0.85	0.031	0.003	0.002	0.017	0.031	0.006
			A0147091	ASSAY	TB19125155	100.00	101.00	1.00	0.005	0.003	0.001	0.013	0.028	0.006
			A0147092	ASSAY	TB19125155	101.00	102.00	1.00	0.005	0.003	0.001	0.015	0.025	0.006
			A0147093	ASSAY	TB19125155	102.00	103.00	1.00	0.006	0.003	0.001	0.010	0.024	0.006
			A0147094	ASSAY	TB19125155	103.00	104.00	1.00	0.008	0.003	0.001	0.011	0.028	0.006
			A0147095	ASSAY	TB19125155	104.00	105.00	1.00	0.019	0.003	0.002	0.013	0.032	0.007
			A0147096	ASSAY	TB19125155	105.00	106.00	1.00	0.021	0.003	0.002	0.015	0.034	0.007
			A0147097	ASSAY	TB19125155	106.00	107.00	1.00	0.016	0.003	0.003	0.015	0.033	0.007
			A0147098	ASSAY	TB19125155	107.00	108.00	1.00	0.016	0.003	0.003	0.016	0.036	0.007
			A0147099	ASSAY	TB19125155	108.00	109.00	1.00	0.014	0.003	0.003	0.015	0.037	0.008
			A0147100	ASSAY	TB19125155	109.00	110.00	1.00	0.015	0.003	0.006	0.021	0.044	0.009
			A0147101	ASSAY	TB19125155	110.00	111.00	1.00	0.013	0.003	0.008	0.019	0.048	0.009

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	335.21	-1.09	SPRINTIQ	O	
5.00	335.25	-0.78	SPRINTIQ	O	
10.00	335.31	-0.75	SPRINTIQ	O	
15.00	335.35	-0.74	SPRINTIQ	O	
20.00	335.37	-0.72	SPRINTIQ	O	
25.00	335.42	-0.72	SPRINTIQ	O	
30.00	335.40	-0.72	SPRINTIQ	O	
35.00	335.44	-0.73	SPRINTIQ	O	
40.00	335.48	-0.73	SPRINTIQ	O	
45.00	335.54	-0.72	SPRINTIQ	O	
50.00	335.60	-0.74	SPRINTIQ	O	
55.00	335.64	-0.77	SPRINTIQ	O	
60.00	335.73	-0.78	SPRINTIQ	O	
65.00	335.79	-0.79	SPRINTIQ	O	
70.00	335.85	-0.78	SPRINTIQ	O	
75.00	335.94	-0.82	SPRINTIQ	O	
80.00	335.93	-0.85	SPRINTIQ	O	
85.00	335.91	-0.95	SPRINTIQ	O	
90.00	335.66	-1.04	SPRINTIQ	O	

Detailed Log Report
Hole Number 19-311

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,682.12	**Length:**	102.00
Location:		**East:**	32,179.91	**Hole Size:**	NQ
Start Date:	Mar 18, 2019	**Elev:**	-138.00	**Hole Type:**	DDH
Completed Date:	Mar 19, 2019	**Collar Dip:**	-25.38	**Casing:**	No
Contractor:	G4 Forage Drilling	**Collar Az:**	323.86	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,278.14	**Multishot Survey:**	N
Start Log:	Mar 26, 2019	**East:**	309,538.20	**EOH:**	102.00
End Log:	Mar 27, 2019	**Elev:**	-138.00	**Artesian Cond:**	N
Logged By 1:	Adam Richardson	**Claim:**	252	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology
0.00	12.10	**GAB** Medium grained white and greenish gabbro. Weak pervasive chlorite/actinolite alteration of mafic minerals. Sharp lower contact. Trace local fine blebby pyrrhotite+chalcopyrite

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0142448	ASSAY	TB19121285	0.00	1.00	1.00	0.104	0.019	0.003	0.013	0.010	0.002
A0142449	ASSAY	TB19121285	1.00	2.00	1.00	0.027	0.008	0.003	0.007	0.011	0.003
A0142450	ASSAY	TB19121285	2.00	3.00	1.00	0.019	0.007	0.002	0.009	0.009	0.003
A0142451	ASSAY	TB19121285	3.00	4.00	1.00	0.016	0.007	0.004	0.011	0.012	0.004
A0142452	ASSAY	TB19121285	4.00	5.00	1.00	0.013	0.006	0.005	0.013	0.011	0.003
A0142453	ASSAY	TB19121285	5.00	6.00	1.00	0.025	0.009	0.007	0.012	0.015	0.004
A0142454	ASSAY	TB19121285	6.00	7.00	1.00	0.029	0.009	0.003	0.009	0.016	0.004
A0142455	ASSAY	TB19121285	7.00	8.00	1.00	0.013	0.006	0.006	0.026	0.016	0.004
A0142456	ASSAY	TB19121285	8.00	9.00	1.00	0.017	0.006	0.007	0.026	0.022	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0142457	ASSAY	TB19121285	9.00	10.00	1.00	0.064	0.014	0.003	0.008	0.022	0.005
			A0142458	ASSAY	TB19121285	10.00	11.00	1.00	0.134	0.022	0.020	0.045	0.025	0.006
			A0142460	ASSAY	TB19121285	11.00	12.10	1.10	0.196	0.034	0.011	0.015	0.036	0.006
12.10	17.64	**MGAB**	A0142461	ASSAY	TB19121285	12.10	13.00	0.90	0.805	0.129	0.036	0.065	0.084	0.011
Green, medium grained, strongly chlorite-actinolite altered melanogabbro. Sharp upper and lower contacts.			A0142462	ASSAY	TB19121285	13.00	14.00	1.00	1.820	0.283	0.104	0.115	0.131	0.012
			A0142463	ASSAY	TB19121285	14.00	15.00	1.00	2.180	0.340	0.168	0.150	0.150	0.013
			A0142464	ASSAY	TB19121285	15.00	16.00	1.00	1.880	0.292	0.128	0.127	0.120	0.009
			A0142465	ASSAY	TB19121285	16.00	17.00	1.00	1.820	0.293	0.121	0.147	0.132	0.012
			A0142466	ASSAY	TB19121285	17.00	17.64	0.64	1.840	0.292	0.161	0.168	0.140	0.013

From	To	Lithology
17.64	51.96	**GAB**

Medium grained white and dark, sometimes greenish gabbro. Weak to locally moderate chlorite-actinolite alteration. Minor brownish felsic dyke (43.67-44.32). Trace local fine grained disseminated po-cpy at top of unit, increasing to up to 0.5% disseminated fine po-cpy in bottom half of unit.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0142467	ASSAY	TB19121285	17.64	18.30	0.66	1.240	0.197	0.116	0.099	0.085	0.006
A0142468	ASSAY	TB19121285	18.30	19.00	0.70	4.020	0.655	0.507	0.279	0.222	0.009
A0142469	ASSAY	TB19121285	19.00	20.00	1.00	1.600	0.251	0.198	0.121	0.107	0.007
A0142470	ASSAY	TB19121285	20.00	21.00	1.00	0.034	0.008	0.007	0.011	0.013	0.005
A0142471	ASSAY	TB19121285	21.00	22.00	1.00	0.143	0.033	0.017	0.019	0.020	0.006
A0142472	ASSAY	TB19121285	22.00	23.00	1.00	0.223	0.039	0.033	0.027	0.022	0.006
A0142473	ASSAY	TB19121285	23.00	24.00	1.00	0.161	0.029	0.015	0.021	0.018	0.006
A0142474	ASSAY	TB19121285	24.00	25.00	1.00	0.009	0.005	0.003	0.009	0.010	0.006
A0142475	ASSAY	TB19121285	25.00	26.00	1.00	0.017	0.006	0.004	0.009	0.010	0.006
A0142476	ASSAY	TB19121285	26.00	27.00	1.00	0.010	0.007	0.004	0.009	0.010	0.006
A0142477	ASSAY	TB19121285	27.00	28.00	1.00	0.004	0.003	0.003	0.008	0.010	0.006
A0142478	ASSAY	TB19121285	28.00	29.00	1.00	0.006	0.003	0.004	0.010	0.010	0.006
A0142480	ASSAY	TB19121285	29.00	30.00	1.00	0.009	0.005	0.003	0.007	0.009	0.006
A0142481	ASSAY	TB19121285	30.00	31.00	1.00	0.026	0.008	0.005	0.010	0.014	0.006
A0142482	ASSAY	TB19121285	31.00	32.00	1.00	0.030	0.009	0.006	0.010	0.012	0.006
A0142483	ASSAY	TB19121285	32.00	33.00	1.00	0.028	0.007	0.007	0.010	0.011	0.006
A0142484	ASSAY	TB19121285	33.00	34.00	1.00	0.195	0.032	0.014	0.020	0.017	0.007
A0142485	ASSAY	TB19121285	34.00	35.00	1.00	0.215	0.035	0.006	0.016	0.016	0.006
A0142486	ASSAY	TB19121285	35.00	36.00	1.00	0.106	0.018	0.014	0.017	0.014	0.006
A0142487	ASSAY	TB19121285	36.00	37.00	1.00	0.211	0.038	0.020	0.021	0.018	0.006
A0142488	ASSAY	TB19121285	37.00	38.00	1.00	0.682	0.059	0.064	0.034	0.035	0.007
A0142489	ASSAY	TB19121285	38.00	39.00	1.00	0.701	0.106	0.069	0.047	0.064	0.007
A0142490	ASSAY	TB19121285	39.00	40.00	1.00	0.113	0.018	0.014	0.017	0.021	0.006
A0142491	ASSAY	TB19121285	40.00	41.00	1.00	0.008	0.003	0.007	0.012	0.011	0.005
A0142492	ASSAY	TB19121285	41.00	42.00	1.00	0.009	0.003	0.012	0.046	0.011	0.006
A0142493	ASSAY	TB19121285	42.00	43.00	1.00	0.036	0.009	0.087	0.046	0.012	0.006
A0142494	ASSAY	TB19121285	43.00	44.00	1.00	0.043	0.009	0.012	0.022	0.012	0.005
A0142495	ASSAY	TB19121285	44.00	45.00	1.00	0.035	0.007	0.012	0.012	0.011	0.005
A0142499	ASSAY	TB19135567	45.00	46.00	1.00	0.741	0.120	0.076	0.066	0.055	0.008
A0142500	ASSAY	TB19135567	46.00	47.00	1.00	1.140	0.181	0.108	0.084	0.075	0.008
A0142501	ASSAY	TB19135567	47.00	48.00	1.00	1.000	0.151	0.065	0.072	0.080	0.008

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0142502	ASSAY	TB19135567	48.00	49.00	1.00	0.624	0.101	0.033	0.032	0.055	0.006
			A0142503	ASSAY	TB19135567	49.00	50.00	1.00	0.442	0.064	0.028	0.032	0.046	0.006
			A0142504	ASSAY	TB19135567	50.00	51.00	1.00	0.140	0.025	0.012	0.018	0.026	0.006
			A0142505	ASSAY	TB19135567	51.00	51.96	0.96	0.258	0.041	0.021	0.032	0.026	0.007
51.96	56.63	**MGAB** Darker green, strongly chlorite-actinolite altered gabbro. Unit is more strongly mineralized than the above with approx 0.5 fine disseminated to blebby po-cpy. Lower contact is a fault zone.	A0142506	ASSAY	TB19123674	51.96	53.00	1.04	2.240	0.368	0.255	0.167	0.177	0.010
			A0142507	ASSAY	TB19123674	53.00	54.00	1.00	2.160	0.347	0.241	0.159	0.162	0.010
			A0142508	ASSAY	TB19123674	54.00	55.00	1.00	1.300	0.221	0.261	0.102	0.100	0.006
			A0142509	ASSAY	TB19123674	55.00	56.00	1.00	1.720	0.269	0.181	0.132	0.137	0.008
			A0142510	ASSAY	TB19123674	56.00	56.63	0.63	2.240	0.330	0.190	0.154	0.174	0.009
56.63	58.48	**FAULT** Dark green fault zone. Minor gouge, mostly very fractured foliated rock.	A0142511	ASSAY	TB19123674	56.63	57.30	0.67	1.720	0.273	0.151	0.130	0.133	0.007
			A0142512	ASSAY	TB19123674	57.30	58.48	1.18	2.140	0.323	0.077	0.110	0.153	0.009

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
58.48	83.45	**GAB** Medium grained greyish white and greenish gabbro unit. Weakly and patchy moderate chlorite-actinolite alteration. Sharp upper and lower contacts. Pervasive fine grained disseminated to fine blebby po-cpy with local amounts up to 1% over 10cm.	A0142513	ASSAY	TB19123674	58.48	59.80	1.32	1.280	0.212	0.041	0.050	0.080	0.005
			A0142514	ASSAY	TB19123674	59.80	61.00	1.20	0.970	0.162	0.077	0.068	0.065	0.005
			A0142515	ASSAY	TB19123674	61.00	62.00	1.00	0.438	0.062	0.020	0.020	0.033	0.004
			A0142516	ASSAY	TB19123674	62.00	63.00	1.00	0.423	0.073	0.019	0.019	0.033	0.004
			A0142518	ASSAY	TB19123674	63.00	64.00	1.00	0.231	0.040	0.010	0.012	0.024	0.004
			A0142519	ASSAY	TB19123674	64.00	65.00	1.00	0.856	0.134	0.046	0.042	0.057	0.004
			A0142520	ASSAY	TB19123674	65.00	66.00	1.00	2.040	0.328	0.122	0.133	0.119	0.005
			A0142521	ASSAY	TB19123674	66.00	67.00	1.00	0.663	0.106	0.034	0.036	0.051	0.005
			A0142522	ASSAY	TB19123674	67.00	68.00	1.00	0.285	0.038	0.013	0.014	0.029	0.005
			A0142523	ASSAY	TB19123674	68.00	69.00	1.00	0.131	0.013	0.005	0.008	0.026	0.004
			A0142524	ASSAY	TB19123674	69.00	70.00	1.00	0.176	0.020	0.012	0.013	0.019	0.003
			A0142525	ASSAY	TB19123674	70.00	71.00	1.00	0.406	0.060	0.029	0.027	0.029	0.004
			A0142526	ASSAY	TB19123674	71.00	72.00	1.00	0.585	0.115	0.040	0.035	0.034	0.004
			A0142527	ASSAY	TB19123674	72.00	73.00	1.00	0.289	0.047	0.019	0.025	0.027	0.003
			A0142528	ASSAY	TB19123674	73.00	74.00	1.00	0.759	0.144	0.034	0.027	0.030	0.004
			A0142529	ASSAY	TB19123674	74.00	75.00	1.00	0.700	0.143	0.039	0.041	0.044	0.005
			A0142530	ASSAY	TB19123674	75.00	76.00	1.00	0.946	0.153	0.066	0.066	0.055	0.006
			A0142531	ASSAY	TB19123674	76.00	77.00	1.00	0.262	0.044	0.020	0.015	0.025	0.004
			A0142532	ASSAY	TB19123674	77.00	78.00	1.00	0.338	0.035	0.020	0.022	0.025	0.003
			A0142533	ASSAY	TB19123674	78.00	79.00	1.00	1.040	0.132	0.057	0.035	0.041	0.005
			A0142534	ASSAY	TB19123674	79.00	80.00	1.00	1.960	0.295	0.077	0.062	0.076	0.006
			A0142535	ASSAY	TB19123674	80.00	81.00	1.00	0.936	0.149	0.089	0.049	0.053	0.005
			A0142536	ASSAY	TB19123674	81.00	82.25	1.25	0.822	0.131	0.043	0.036	0.047	0.005
			A0142538	ASSAY	TB19123674	82.25	83.45	1.20	0.057	0.005	0.008	0.009	0.019	0.004
83.45	88.86	**MGAB** Dark green, strong pervasive chlorite-actinolite altered gabbro unit. Sharp upper and lower contacts. Local observable weak foliation, 60tca.	A0142539	ASSAY	TB19123674	83.45	84.30	0.85	0.230	0.040	0.016	0.017	0.049	0.010
			A0142540	ASSAY	TB19123674	84.30	85.00	0.70	0.065	0.012	0.005	0.020	0.045	0.011
			A0142541	ASSAY	TB19123674	85.00	86.00	1.00	0.041	0.005	0.003	0.013	0.040	0.009
			A0142542	ASSAY	TB19123674	86.00	87.00	1.00	0.298	0.044	0.018	0.021	0.049	0.011
			A0142543	ASSAY	TB19123674	87.00	88.00	1.00	0.038	0.006	0.006	0.008	0.034	0.010
			A0142544	ASSAY	TB19123674	88.00	88.86	0.86	0.021	0.003	0.014	0.018	0.021	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
88.86	96.45	**GAB-Vt** Greenish medium to coarser varitextured gabbro unit. Moderate to local strong chlorite-actinolite alteration. Local patchy interstitial po-cpy mineralization (92.6-92.75m). Sharp upper and lower contacts.	A0142545	ASSAY	TB19123674	88.86	90.00	1.14	0.093	0.005	0.007	0.009	0.016	0.004
			A0142546	ASSAY	TB19123674	90.00	91.00	1.00	0.098	0.003	0.008	0.007	0.017	0.004
			A0142547	ASSAY	TB19123674	91.00	92.00	1.00	0.089	0.003	0.005	0.006	0.020	0.004
			A0142548	ASSAY	TB19123674	92.00	93.00	1.00	0.487	0.048	0.012	0.011	0.037	0.005
			A0142549	ASSAY	TB19123674	93.00	94.00	1.00	0.606	0.070	0.050	0.034	0.036	0.005
			A0142550	ASSAY	TB19123674	94.00	95.20	1.20	0.711	0.075	0.028	0.025	0.033	0.005
			A0142551	ASSAY	TB19123674	95.20	96.45	1.25	0.129	0.015	0.019	0.006	0.024	0.004
96.45	99.90	**MGAB** Dark green, strongly chlorite-actinolite altered weakly foliated altered gabbro. Pervasive fine disseminated to fine blebby po-cpy mineralization (<1%). Sharp contacts.	A0142552	ASSAY	TB19123674	96.45	97.90	1.45	2.250	0.319	0.182	0.145	0.152	0.013
			A0142553	ASSAY	TB19123674	97.90	99.00	1.10	0.045	0.009	0.008	0.011	0.037	0.010
			A0142554	ASSAY	TB19123674	99.00	99.80	0.80	0.066	0.012	0.017	0.016	0.036	0.010
			A0142555	ASSAY	TB19123674	99.80	101.00	1.20	0.483	0.088	0.021	0.015	0.033	0.005
99.90	102.00	**GAB** Medium grained moderatly altered gabbro. Trace fine blebby po-cpy mineralization. Strong upper contact.	A0142556	ASSAY	TB19123674	101.00	102.00	1.00	0.532	0.079	0.024	0.014	0.029	0.005

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	323.76	-25.74	SPRINTIQ	O	
5.00	323.88	-25.55	SPRINTIQ	O	
10.00	323.91	-25.56	SPRINTIQ	O	
15.00	323.95	-25.54	SPRINTIQ	O	
20.00	323.99	-25.53	SPRINTIQ	O	
25.00	324.00	-25.50	SPRINTIQ	O	
30.00	324.03	-25.47	SPRINTIQ	O	
35.00	324.05	-25.45	SPRINTIQ	O	
40.00	324.05	-25.43	SPRINTIQ	O	
45.00	324.11	-25.40	SPRINTIQ	O	
50.00	324.15	-25.40	SPRINTIQ	O	
55.00	324.22	-25.39	SPRINTIQ	O	
60.00	324.27	-25.38	SPRINTIQ	O	
65.00	324.29	-25.38	SPRINTIQ	O	
70.00	324.36	-25.38	SPRINTIQ	O	
75.00	324.40	-25.37	SPRINTIQ	O	
80.00	324.45	-25.36	SPRINTIQ	O	

Detailed Log Report
Hole Number 19-312

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,681.65	**Length:**	123.00
Location:		**East:**	32,180.46	**Hole Size:**	NQ
Start Date:	Mar 20, 2019	**Elev:**	-138.56	**Hole Type:**	DDH
Completed Date:	Mar 22, 2019	**Collar Dip:**	-54.21	**Casing:**	No
Contractor:	G4 Forage Drilling	**Collar Az:**	325.46	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,277.65	**Multishot Survey:**	N
Start Log:	Apr 12, 2019	**East:**	309,538.72	**EOH:**	123.00
End Log:	Apr 13, 2019	**Elev:**	-138.56	**Artesian Cond:**	N
Logged By 1:	Jesse Koroscil	**Claim:**	252	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology
0.00	43.32	**GAB-VBx**

0.0 - 43.32m. Medium to dark grey/green and white, Mg, weakly mineralized VT Gabbro Breccia.
Breccia hosts several deformed tonalitic clasts of various sizes. Patchy bands of strong foliation within gabbro at random orientations. Narrow whispy, irregular and planar felsite veins cross cut core at high frequency.
Pervassive moderate chlorite-actinolite alt. Patchy localized weak sericite-epidote-K alt.
Biotite alt present within or at margins of deformed tonalitic clasts.
Mineralization is around 0.2% very fg diss

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129917	ASSAY	TB19121289	1.00	2.00	1.00	0.021	0.007	0.003	0.008	0.013	0.004
A0129918	ASSAY	TB19121289	2.00	3.00	1.00	0.041	0.011	0.003	0.008	0.013	0.004
A0129919	ASSAY	TB19121289	3.00	4.00	1.00	0.011	0.003	0.002	0.007	0.008	0.002
A0129920	ASSAY	TB19121289	4.00	5.00	1.00	0.016	0.003	0.002	0.008	0.012	0.004
A0129921	ASSAY	TB19121289	5.00	6.00	1.00	0.018	0.003	0.001	0.007	0.013	0.004
A0129922	ASSAY	TB19121289	6.00	7.00	1.00	0.029	0.005	0.003	0.009	0.014	0.004
A0129923	ASSAY	TB19121289	7.00	8.00	1.00	0.026	0.008	0.003	0.007	0.011	0.003
A0129924	ASSAY	TB19121289	8.00	9.00	1.00	0.018	0.006	0.002	0.008	0.011	0.003
A0129925	ASSAY	TB19121289	9.00	10.00	1.00	0.015	0.003	0.004	0.012	0.005	0.001

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
		Py>>Cpy-Po. Only local blebby sulphide up to 4mm, often along fracture planes, generally not differentiated. Lower contact with GABVT is weakly irregular in habit and difuse, cuts core at 40dtca	A0129926	ASSAY	TB19121289	10.00	11.00	1.00	0.005	0.003	0.002	0.008	0.006	0.002
			A0129927	ASSAY	TB19121289	11.00	12.00	1.00	0.121	0.023	0.012	0.026	0.021	0.004
			A0129928	ASSAY	TB19121289	12.00	13.00	1.00	0.094	0.018	0.002	0.009	0.017	0.003
			A0129929	ASSAY	TB19121289	13.00	14.00	1.00	0.401	0.065	0.016	0.026	0.031	0.005
			A0129930	ASSAY	TB19121289	14.00	15.00	1.00	0.550	0.090	0.042	0.054	0.041	0.005
			A0129931	ASSAY	TB19121289	15.00	16.00	1.00	0.368	0.064	0.020	0.031	0.032	0.005
			A0129932	ASSAY	TB19121289	16.00	17.00	1.00	0.286	0.047	0.021	0.033	0.029	0.005
			A0129933	ASSAY	TB19121289	17.00	18.00	1.00	0.153	0.028	0.017	0.030	0.024	0.005
			A0129934	ASSAY	TB19121289	18.00	19.00	1.00	0.302	0.048	0.016	0.022	0.029	0.005
			A0129936	ASSAY	TB19121289	19.00	20.00	1.00	0.277	0.042	0.131	0.101	0.029	0.006
			A0129937	ASSAY	TB19121289	20.00	21.00	1.00	0.044	0.009	0.009	0.020	0.016	0.004
			A0129938	ASSAY	TB19121289	21.00	22.00	1.00	0.136	0.021	0.022	0.037	0.025	0.006
			A0129939	ASSAY	TB19121289	22.00	23.00	1.00	0.025	0.003	0.007	0.035	0.018	0.005
			A0129940	ASSAY	TB19121289	23.00	24.00	1.00	0.359	0.067	0.033	0.099	0.026	0.005
			A0129941	ASSAY	TB19121289	24.00	25.00	1.00	1.650	0.218	0.082	0.095	0.089	0.007
			A0129942	ASSAY	TB19121289	25.00	26.00	1.00	2.460	0.386	0.178	0.162	0.137	0.007
			A0129943	ASSAY	TB19121289	26.00	27.00	1.00	2.720	0.441	0.230	0.220	0.158	0.008
			A0129944	ASSAY	TB19121289	27.00	28.00	1.00	1.970	0.315	0.158	0.153	0.114	0.007
			A0129945	ASSAY	TB19121289	28.00	29.00	1.00	0.162	0.026	0.056	0.032	0.019	0.005
			A0129946	ASSAY	TB19121289	29.00	30.00	1.00	0.200	0.036	0.021	0.025	0.026	0.005
			A0129947	ASSAY	TB19121289	30.00	31.00	1.00	0.222	0.036	0.446	0.089	0.030	0.007
			A0129948	ASSAY	TB19121289	31.00	32.00	1.00	0.150	0.027	0.016	0.019	0.020	0.005
			A0129949	ASSAY	TB19121289	32.00	33.00	1.00	0.220	0.037	0.022	0.019	0.021	0.005
			A0129950	ASSAY	TB19121289	33.00	34.00	1.00	0.020	0.003	0.009	0.014	0.009	0.004
			A0129951	ASSAY	TB19121289	34.00	35.00	1.00	0.007	0.003	0.015	0.013	0.010	0.005
			A0129952	ASSAY	TB19121289	35.00	36.00	1.00	0.039	0.007	0.008	0.020	0.013	0.005
			A0129953	ASSAY	TB19121289	36.00	37.00	1.00	0.184	0.032	0.015	0.023	0.018	0.005
			A0129954	ASSAY	TB19121289	37.00	38.00	1.00	0.011	0.003	0.011	0.027	0.011	0.005
			A0129956	ASSAY	TB19121289	38.00	39.00	1.00	0.015	0.003	0.004	0.012	0.009	0.005
			A0129957	ASSAY	TB19121289	39.00	40.00	1.00	0.314	0.039	0.012	0.019	0.021	0.005
			A0129958	ASSAY	TB19121289	40.00	41.00	1.00	0.091	0.016	0.009	0.014	0.011	0.004
			A0129959	ASSAY	TB19121289	41.00	42.00	1.00	0.580	0.096	0.067	0.086	0.065	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0129960	ASSAY	TB19121289	42.00	43.32	1.32	1.470	0.248	0.062	0.070	0.099	0.008

From	To	Lithology
43.32	73.86	**GAB**

43.32 - 73.86m. Med green/dark grey, mg, weakly mineralized Mg Gabbro.
Minor amounts of narrow zones of Cg or Vt Gabbro.
Unit lacks PEG. Interval has some altered/deformed tonalitic clasts with whispy strong biotite at margins.
Little felsite veining relative to previous.
Alteration is slightly variable throguhout. Roughly 75% of interval is wekly chlorite-actinolite with lesser patches of moderate intensity alt.
Mineralization is is weak, strongest proximal to upper contact with VTGAB-Bx. 0.3% very fg Py>>Cpy-Po within first 2m, dropping off to around 0.1% over rest of unit.
Lower contact with Pyroxenite unit is sharp, planar at 40dtca.
Pyroxenite unit seems like a varitextured gabbro with variable degrees of leuco-melano patches. Strong to extreme chlorite-actinolite alt to melano rich intervals, forming narrow mineralized pyroxenite unit.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0129961	ASSAY	TB19121289	43.32	44.00	0.68	1.140	0.166	0.071	0.068	0.074	0.008
A0129962	ASSAY	TB19121289	44.00	45.00	1.00	0.489	0.077	0.036	0.038	0.046	0.007
A0129963	ASSAY	TB19121289	45.00	46.00	1.00	0.154	0.026	0.015	0.022	0.027	0.006
A0129964	ASSAY	TB19121289	46.00	47.00	1.00	0.088	0.015	0.014	0.017	0.015	0.006
A0129965	ASSAY	TB19121289	47.00	48.00	1.00	0.111	0.016	0.013	0.016	0.018	0.006
A0129966	ASSAY	TB19121289	48.00	49.00	1.00	0.009	0.003	0.005	0.011	0.010	0.006
A0129967	ASSAY	TB19121289	49.00	50.00	1.00	0.046	0.007	0.005	0.010	0.013	0.006
A0129968	ASSAY	TB19121289	50.00	51.00	1.00	0.880	0.149	0.044	0.042	0.039	0.007
A0129969	ASSAY	TB19121289	51.00	52.00	1.00	0.207	0.034	0.018	0.018	0.016	0.006
A0129970	ASSAY	TB19121289	52.00	53.00	1.00	0.179	0.032	0.015	0.022	0.020	0.006
A0129971	ASSAY	TB19121289	53.00	54.00	1.00	0.027	0.003	0.005	0.014	0.011	0.006
A0129972	ASSAY	TB19121289	54.00	55.00	1.00	0.010	0.003	0.005	0.009	0.010	0.006
A0129973	ASSAY	TB19121289	55.00	56.00	1.00	0.189	0.031	0.015	0.021	0.020	0.006
A0129974	ASSAY	TB19121289	56.00	57.00	1.00	0.024	0.006	0.006	0.012	0.013	0.006
A0129976	ASSAY	TB19121289	57.00	58.00	1.00	0.008	0.003	0.006	0.015	0.014	0.006
A0129977	ASSAY	TB19121289	58.00	59.00	1.00	0.074	0.014	0.015	0.012	0.013	0.006
A0129978	ASSAY	TB19121289	59.00	60.00	1.00	0.007	0.003	0.009	0.012	0.010	0.006
A0129979	ASSAY	TB19121289	60.00	61.00	1.00	0.043	0.007	0.006	0.010	0.011	0.006
A0129980	ASSAY	TB19121289	61.00	62.00	1.00	0.003	0.003	0.013	0.025	0.005	0.003
A0129981	ASSAY	TB19121289	62.00	63.00	1.00	0.029	0.006	0.009	0.014	0.011	0.006
A0129982	ASSAY	TB19121289	63.00	64.00	1.00	0.306	0.047	0.013	0.014	0.019	0.006
A0129983	ASSAY	TB19121289	64.00	65.00	1.00	0.376	0.056	0.043	0.052	0.055	0.007
A0129984	ASSAY	TB19121289	65.00	66.00	1.00	0.190	0.029	0.019	0.024	0.025	0.006
A0129985	ASSAY	TB19121289	66.00	67.00	1.00	0.101	0.017	0.009	0.016	0.013	0.006
A0129986	ASSAY	TB19121289	67.00	68.00	1.00	0.052	0.008	0.005	0.016	0.014	0.006
A0129987	ASSAY	TB19121289	68.00	69.00	1.00	0.706	0.104	0.042	0.029	0.039	0.006
A0129988	ASSAY	TB19121289	69.00	70.00	1.00	0.223	0.037	0.024	0.026	0.020	0.006
A0129989	ASSAY	TB19121289	70.00	71.00	1.00	0.619	0.098	0.038	0.038	0.037	0.007
A0129990	ASSAY	TB19121289	71.00	72.00	1.00	0.174	0.029	0.016	0.022	0.020	0.006
A0129991	ASSAY	TB19121289	72.00	73.00	1.00	0.231	0.037	0.012	0.026	0.021	0.006
A0129995	ASSAY	TB19121290	73.00	73.86	0.86	0.564	0.097	0.041	0.048	0.041	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
73.86	84.43	**PYXT** 73.86 - 84.43m. Dark green, strong to extemely chlorite alt, strongly mineralized Pyroxenite. Patchy schistose foliation at various orientations. Several irregular shaped, remnant leucogabbro pods throughout, strongest min restricted to pyroxenite. Extreme chlorite-actinolite alt. 1% blebby Py>Cpy-Po. Localized patches of mg euhedral Py, seem to be hosted where a dark green/black groundmass and whispy chlorite bands cut core and proximal to contacts. Upper and lower contacts are sharp and planar with strong foliation. Upper contact with GAB is sharp, 73.86m at 40dtca. Lower contact with VTGAB is sharp and planar, 84.43m at 35dtca.	A0129996	ASSAY	TB19121290	73.86	75.00	1.14	3.050	0.449	0.294	0.207	0.183	0.013
			A0129997	ASSAY	TB19121290	75.00	76.00	1.00	2.300	0.368	0.169	0.143	0.136	0.012
			A0129998	ASSAY	TB19121290	76.00	77.00	1.00	1.680	0.264	0.113	0.119	0.106	0.009
			A0129999	ASSAY	TB19121290	77.00	78.00	1.00	2.170	0.345	0.265	0.163	0.124	0.012
			A0130000	ASSAY	TB19121290	78.00	79.00	1.00	2.620	0.411	0.301	0.155	0.137	0.011
			A0160001	ASSAY	TB19121290	79.00	80.00	1.00	2.010	0.299	0.249	0.141	0.129	0.008
			A0160002	ASSAY	TB19121290	80.00	81.00	1.00	2.600	0.409	0.290	0.152	0.160	0.009
			A0160003	ASSAY	TB19121290	81.00	82.00	1.00	2.150	0.338	0.251	0.137	0.136	0.009
			A0160004	ASSAY	TB19121290	82.00	83.00	1.00	2.800	0.453	0.307	0.174	0.191	0.012
			A0160005	ASSAY	TB19121290	83.00	83.70	0.70	2.260	0.359	0.928	0.172	0.156	0.010
			A0160006	ASSAY	TB19121290	83.70	84.43	0.73	1.950	0.308	0.168	0.122	0.122	0.010
84.43	86.65	**GAB-Vt** 84.43 - 86.65m. Light purple green, Cg, plag rich VTGAB. Leucogab interval. Moderate chlorite-actinolite. This is the start of the VTGAB split by a intermediate dike. 1% euhedral to subhedral mg Py. Sharp lower contact with intermediate dike is 86.65m, contact 40dtca.	A0160007	ASSAY	TB19121290	84.43	85.00	0.57	1.680	0.256	0.036	0.050	0.074	0.006
			A0160008	ASSAY	TB19121290	85.00	86.00	1.00	1.200	0.183	0.029	0.043	0.059	0.005
			A0160009	ASSAY	TB19121290	86.00	86.65	0.65	0.072	0.010	0.012	0.026	0.019	0.004
86.65	89.10	**DIKE-Intermediate** 86.65 - 89.10m. Light grey/green/yellow, intermediate dike. Pervassive moderate sericite-epidote alt. Fg fresh plag throguhout. Possible deformed QFP. Fractures have narrow, light green epidote halos, chlorite infil. Disseminated fg Py, 1-2mm, euhedral to subhedral. Lower contact at 89.1m, sharp and planar at 70dtca.	A0160010	ASSAY	TB19121290	86.65	87.80	1.15	0.008	0.003	0.029	0.070	0.004	0.002
			A0160011	ASSAY	TB19121290	87.80	89.10	1.30	0.015	0.003	0.017	0.037	0.005	0.002

From	To	Lithology
89.10	123.00	**GAB-Vt**

89.10 - 123.00m. Dark green, mg-cg, moderately altered Varitextured Gabbro.
Varitextured with few narrow PEG patches. Plag content around 40-50%, often with pinkish hue putting it on the verge of Melanogabbro. Very competent unit lacking significant veining or fracturing. The last 1m of unit becomes strongly altered and mineralization picks up, now hosts up to 0.5% intercumulate Py>>Cpy.
Pervassive moderate chlorite-actinolite alt with minor patches of strong throughout. Patchy weak Epidote along hairline fractures.
Mineralization is reduced to generally trace. Only exception is 0.2-0.3% hosted within patches of very strong chlorite-actinolite alt, although his is minor. 0.1% fg, Euhedral to subhedral Py, 1-3mm.

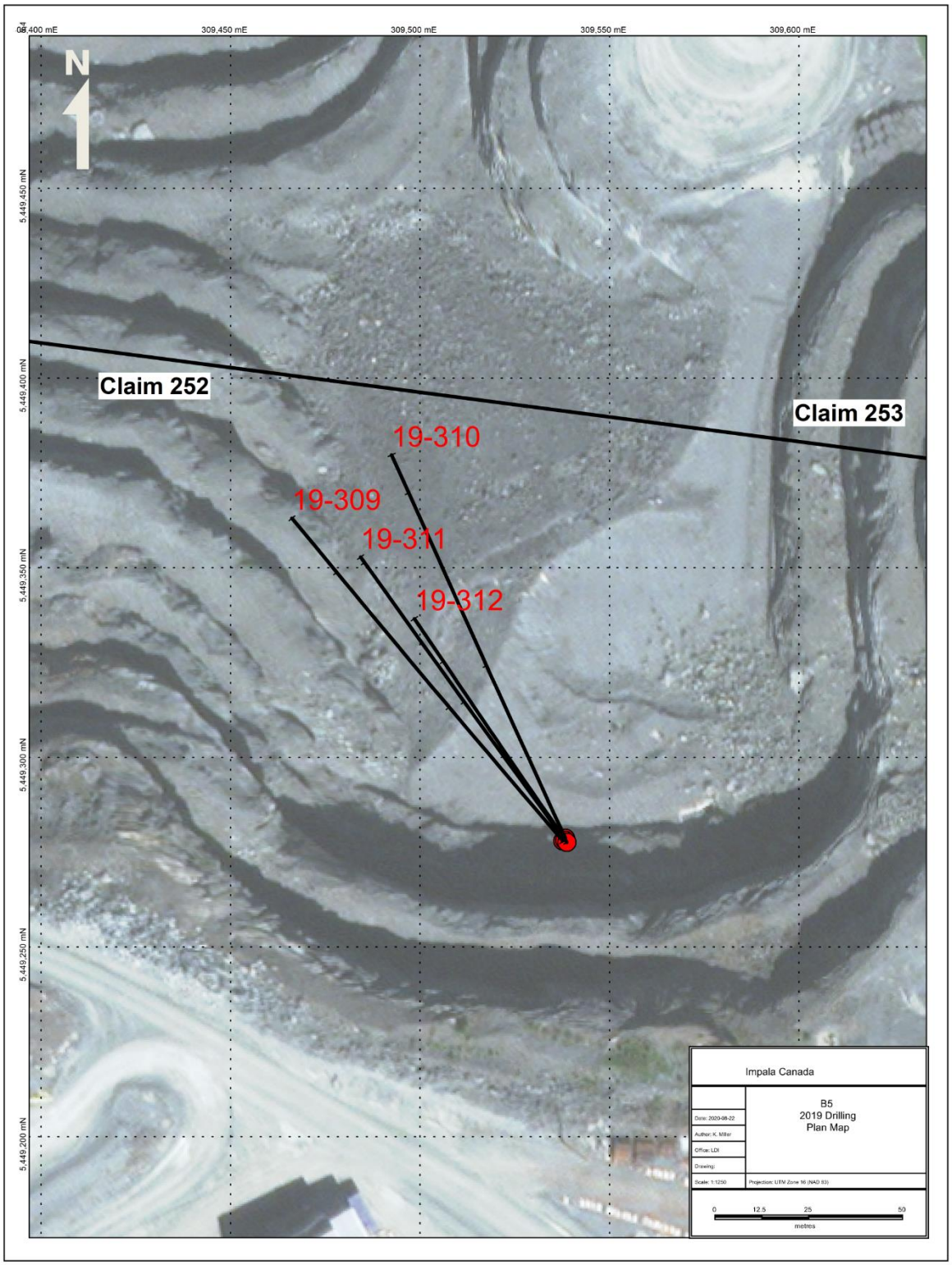
Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0160012	ASSAY	TB19121290	89.10	90.00	0.90	0.888	0.134	0.077	0.062	0.051	0.007
A0160014	ASSAY	TB19121290	90.00	91.00	1.00	1.020	0.156	0.065	0.061	0.058	0.007
A0160015	ASSAY	TB19121290	91.00	92.00	1.00	0.231	0.033	0.014	0.017	0.022	0.005
A0160016	ASSAY	TB19121290	92.00	93.00	1.00	0.523	0.089	0.018	0.025	0.032	0.005
A0160017	ASSAY	TB19121290	93.00	94.00	1.00	0.134	0.023	0.009	0.009	0.017	0.004
A0160018	ASSAY	TB19121290	94.00	95.00	1.00	0.065	0.008	0.002	0.005	0.014	0.004
A0160019	ASSAY	TB19121290	95.00	96.00	1.00	0.064	0.008	0.001	0.005	0.013	0.004
A0160020	ASSAY	TB19121290	96.00	97.00	1.00	0.054	0.007	0.001	0.004	0.015	0.004
A0160021	ASSAY	TB19121290	97.00	98.00	1.00	0.072	0.010	0.001	0.003	0.015	0.003
A0160022	ASSAY	TB19121290	98.00	99.00	1.00	0.065	0.005	0.001	0.003	0.014	0.004
A0160023	ASSAY	TB19121290	99.00	100.00	1.00	0.081	0.012	0.001	0.004	0.015	0.004
A0160024	ASSAY	TB19121290	100.00	101.00	1.00	0.745	0.120	0.057	0.048	0.037	0.005
A0160025	ASSAY	TB19121290	101.00	102.00	1.00	0.605	0.099	0.050	0.048	0.045	0.006
A0160026	ASSAY	TB19121290	102.00	103.00	1.00	0.263	0.049	0.009	0.012	0.024	0.005
A0160027	ASSAY	TB19121290	103.00	104.00	1.00	0.177	0.038	0.014	0.014	0.019	0.004
A0160028	ASSAY	TB19121290	104.00	105.00	1.00	0.209	0.036	0.016	0.013	0.025	0.006
A0160029	ASSAY	TB19121290	105.00	106.00	1.00	0.140	0.037	0.005	0.009	0.032	0.007
A0160030	ASSAY	TB19121290	106.00	107.00	1.00	0.342	0.066	0.006	0.010	0.026	0.005
A0160031	ASSAY	TB19121290	107.00	108.00	1.00	0.074	0.006	0.001	0.004	0.018	0.005
A0160032	ASSAY	TB19121290	108.00	109.00	1.00	0.081	0.005	0.001	0.002	0.017	0.004
A0160034	ASSAY	TB19121290	109.00	110.00	1.00	0.080	0.007	0.001	0.002	0.016	0.004
A0160035	ASSAY	TB19121290	110.00	111.00	1.00	0.110	0.020	0.002	0.003	0.019	0.004
A0160036	ASSAY	TB19121290	111.00	112.00	1.00	0.117	0.021	0.001	0.003	0.018	0.004
A0160037	ASSAY	TB19121290	112.00	113.00	1.00	0.129	0.012	0.001	0.003	0.018	0.004
A0160038	ASSAY	TB19121290	113.00	114.00	1.00	0.188	0.019	0.001	0.004	0.021	0.005
A0160039	ASSAY	TB19121290	114.00	115.00	1.00	0.135	0.025	0.008	0.010	0.024	0.006
A0160040	ASSAY	TB19121290	115.00	116.00	1.00	0.313	0.048	0.023	0.015	0.029	0.005
A0160041	ASSAY	TB19121290	116.00	117.00	1.00	0.174	0.019	0.006	0.005	0.020	0.004
A0160042	ASSAY	TB19121290	117.00	118.00	1.00	0.091	0.016	0.001	0.003	0.019	0.004
A0160043	ASSAY	TB19121290	118.00	119.00	1.00	0.081	0.016	0.001	0.003	0.019	0.005
A0160044	ASSAY	TB19121290	119.00	120.00	1.00	0.168	0.015	0.001	0.002	0.025	0.005

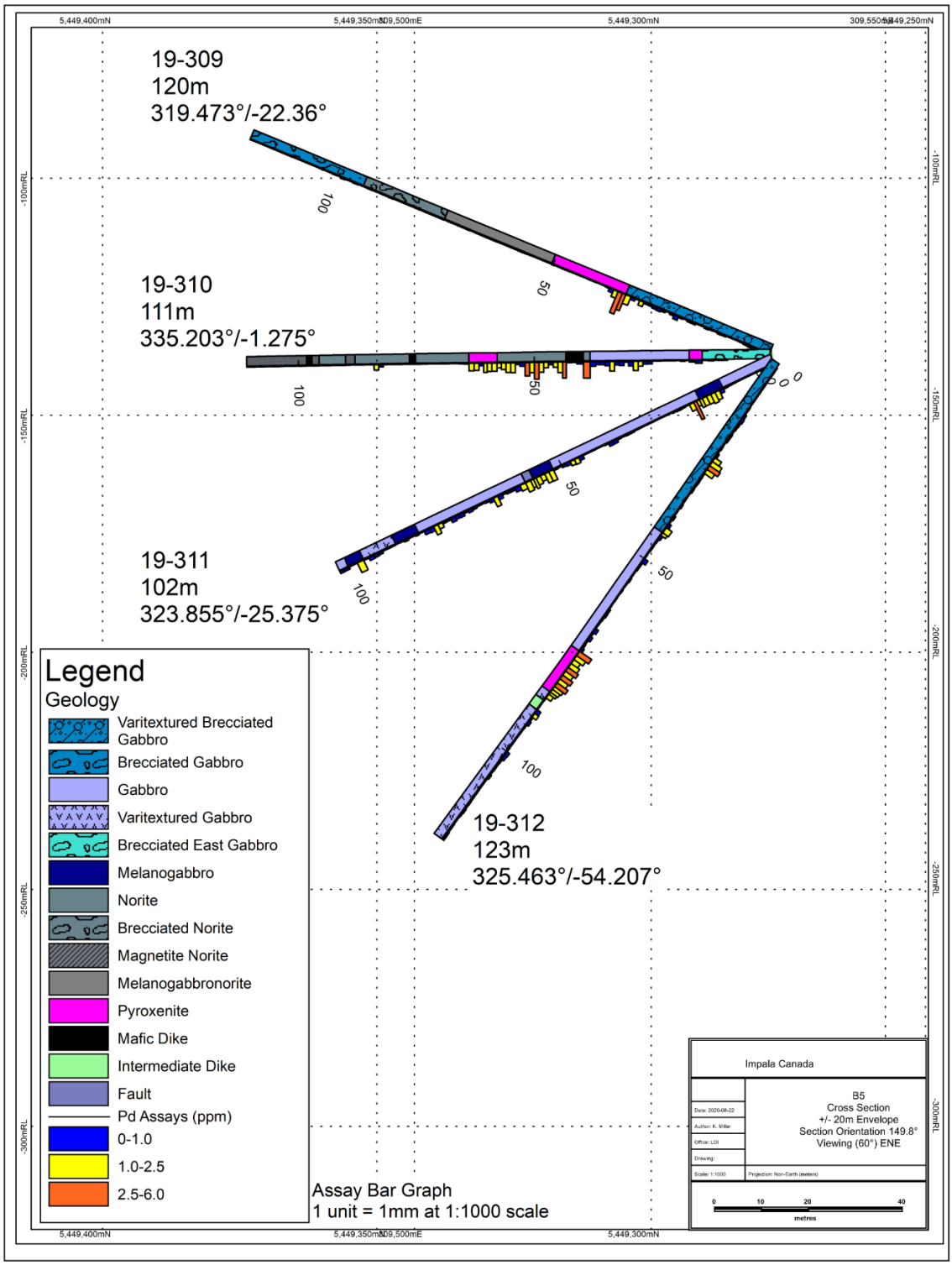
From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0160045	ASSAY	TB19121290	120.00	121.00	1.00	0.160	0.024	0.001	0.002	0.023	0.005
			A0160046	ASSAY	TB19121290	121.00	122.00	1.00	0.314	0.071	0.032	0.040	0.044	0.006
			A0160047	ASSAY	TB19121290	122.00	123.00	1.00	0.322	0.066	0.064	0.068	0.061	0.008

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	325.46	-55.17	SPRINTIQ	O	
5.00	325.47	-55.13	SPRINTIQ	O	
10.00	325.42	-55.13	SPRINTIQ	O	
15.00	325.36	-55.14	SPRINTIQ	O	
20.00	325.45	-55.12	SPRINTIQ	O	
25.00	325.42	-55.11	SPRINTIQ	O	
30.00	325.44	-55.08	SPRINTIQ	O	
35.00	325.42	-55.01	SPRINTIQ	O	
40.00	325.56	-55.00	SPRINTIQ	O	
45.00	325.52	-54.96	SPRINTIQ	O	
50.00	325.58	-54.91	SPRINTIQ	O	
55.00	325.68	-54.93	SPRINTIQ	O	
60.00	325.64	-54.96	SPRINTIQ	O	
65.00	325.80	-54.95	SPRINTIQ	O	
70.00	325.90	-54.96	SPRINTIQ	O	
75.00	325.87	-54.71	SPRINTIQ	O	
80.00	325.96	-53.85	SPRINTIQ	O	
85.00	325.82	-53.78	SPRINTIQ	O	
90.00	325.86	-53.72	SPRINTIQ	O	
95.00	325.80	-53.75	SPRINTIQ	O	
100.00	325.88	-53.75	SPRINTIQ	O	

Appendix C: Drill plan and cross section


309,400 mE
309,450 mE
309,500 mE
309,550 mE
309,600 mE
5,449,450 mN
5,449,400 mN
5,449,350 mN
5,449,300 mN
5,449,250 mN
5,449,200 mN
N
Claim 252
Claim 253
19-310
19-309
19-311
19-312
Impala Canada
B5
2019 Drilling
Plan Map
Date: 2020-08-22
Author: K. Miller
Office: LDI
Drawing:
Scale: 1:1250
Projection: UTM Zone 16 (NAD 83)
0
12.5
25
50
metres


5,449,400mN
5,449,350mN
309,500mE
5,449,300mN
309,550mE
5,449,250mN
19-309
120m
319.473°/-22.36°
19-310
111m
335.203°/-1.275°
19-311
102m
323.855°/-25.375°
19-312
123m
325.463°/-54.207°
100
50
0
-100mRL
-150mRL
-200mRL
-250mRL
-300mRL
Legend
Geology
Varitextured Brecciated Gabbro
Brecciated Gabbro
Gabbro
Varitextured Gabbro
Brecciated East Gabbro
Melanogabbro
Norite
Brecciated Norite
Magnetite Norite
Melanogabbronorite
Pyroxenite
Mafic Dike
Intermediate Dike
Fault
Pd Assays (ppm)
0-1.0
1.0-2.5
2.5-6.0
Assay Bar Graph
1 unit = 1mm at 1:1000 scale
Impala Canada
B5
Cross Section
+/- 20m Envelope
Section Orientation 149.8°
Viewing (60°) ENE
Date: 2020-08-22
Author: K. Miller
Office: LDI
Drawing:
Scale: 1:1000
Projection: Non-Earth (meters)
0
10
20
40
metres

Appendix D: Assay Certificates

Appendix E: Rock Codes

Lithology Code	Rock Name	Mineral Code	Mineral Name	Alteration Code	Alteration Name
ANOR	Anorthosite	**Bio/Bt**	Biotite	**Act**	Actinolite
DIKE	Dike	**Cpx**	Clinopyroxene	**Cal**	Calcite
EGAB	Equigranular Gabbro	**Cpy/Cp/Ccp**	Chalcopyrite	**Carb**	Carbonate
GAB	Gabbro	**Mt/Mag**	Magnetite	**Chl**	Chlorite
GAB-Bx/GABBX	Brecciated Gabbro	**Ol**	Olivine	**Ep**	Epidote
GABMG	Medium-grained Gabbro	**Opx**	Orthopyroxene	**Fe**	Iron
GAB-Vt/GABVT	Varitextured Gabbro	**Plag/Plg**	Plagioclase	**Hem**	Hematite
GBNR	Gabbronorite	**Po/Pyrr**	Pyrrhotite	**K**	Potassium
LC	Lost Core	**Py/Pyr**	Pyrite	**Na**	Sodium
LGAB	Leucogabbro	**Pyx/Pxn**	Pyroxene	**Ox**	Oxide
MBI	Mine Block Intrusion	**Qtz**	Quartz	**Sel**	Selective
MNOR	Melanorite			**Serp**	Serpentine
NLDI	North Lac des Iles			**Sil**	Silica
NOR	Norite			**Spv**	Semi-pervasive
NOR-Vt	Varitextured Norite			**Trem**	Tremolite
OB	Overburden				
PER	Peridotite				
PYXT	Pyroxenite				
QDIOR	Quartz Diorite				
TON	Tonalite				
WEB	Websterite				

Mineralization Style	Mineralization Style Name	Structure Style	Structure Style Name
Bl	Blebby	**Aph**	Aphanitic
Cg	Coarse-grained	**Bx**	Brecciated
Diss	Disseminated	**Cnt**	Contact
Fc	Fracture Controlled	**Dtca**	Degrees to core axis
Ff	Fracture filling	**Fol**	Foliation
Fg	Fine-grained	**Lc/Lct**	Lower contact
Int	Interstitial	**Peg**	Pegmatitic
Mg	Medium-grained	**Sbpl**	Subparallel
Min	Mineralization	**Uc/Uct**	Upper contact
Mod	Moderate	**Ve**	Vein
Pheno	Phenocryst	**Vl/vlnt**	Veinlet
Slvg	Selvage	**Vt**	Varitextured
Tr	Trace	**Xcut**	Crosscut
Vc	Vein controlled		
Vcg	Very coarse-grained		
Vfg	Very fine-grained		
Vh	Vein hosted		
Wk	Weak		