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Exploration 2020 Diamond Drilling Report
Nipissing Diamond Project – Lorrain Property
Lorrain Township
Larder Lake Mining Division
Ontario

For
RJK Explorations Ltd.

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December 21, 2021

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1.0 Summary

All mining claims within the Nipissing Diamond Project – Lorrain Property are in Lorrain Township, Larder Lake Mining Division and are held by RJK Explorations Ltd. for purposes of exploring for diamond-bearing kimberlite pipes in the Cobalt-Kirkland Lake area. A centrally located point within the Nipissing Diamond Project – Lorrain Property (“Property”) is approximately located at UTM coordinate 5,244,385 N, 605,880 E NAD 83 Zone 17 (47.344339 Lat., 79.598255 Long) at the center of Nicol Lake. The Property is located approximately 243 kilometers southeast of Timmins, Ontario and 158 kilometers north of North Bay, Ontario, via road access.

RJK Explorations Ltd. personnel conducted diamond drilling with the assistance of Huard Drilling of New Liskeard, Ontario between March 6, 2020 and December 10, 2020. The phase 1 drilling commenced March 6, 2020 and ended on March 30, 2020. Phase 2 drilling commenced on June 30, 2020 and ended on December 10, 2020. A total 1,961.4 meters in twenty-six diamond drill holes were drilled on 16 unpatented mining claims within Lorrain Township. RJK Explorations Ltd.. The diamond drill program was to test the potential to host diamondiferous kimberlites and better understanding and definition of the local stratigraphy.

Maximum relief on the property is approximately 25 metres. Topography is generally rolling hills with local steep ledges and cliffs. Overburden is relatively shallow over the claims between 6.6-11.0m. Vegetation on the claims consists mainly of mature mixed forest and locally dense underbrush. Logging was done across much of the area and re-growth is extremely dense and, in some cases, impassable.

CFM Mineral Labs processed from a 156 kg drill core sample selected from 4 drill holes (PP-20-03,04,08,09), a picking weight of 179 g from 341 g of heavy mineral concentrates, 1,914 grains were picked and 243 grains probed and classified into 6 diamond indicator minerals. SGS Laboratories processed samples from PP-20-04,08 holes for multi-trace element analysis using the Sodium Peroxide fusion ICP-MS method.

In September 2020, RJK excavated 3 batches of kimberlite material from 3 trenches in the Paradis Pond area totalling 3,583 kg. When the samples were processed by Microlithics Lab, it was determined that no diamonds were recovered after processing the 3 batches and the samples were not representative of the main kimberlite body.

2.0 Introduction

This report has been prepared to meet the requirements for the filing of assessment work under the provisions of the Ontario Mining Act and describes results of a diamond drilling program performed by RJK Explorations Ltd.

The drill holes were drilled within the Lorrain Township Properties in Lorrain Township on 16 contiguous claims owned 100% RJK Explorations Ltd. The drill holes are targeting magnetic anomalies identified in previous assessment work and following up on known kimberlite targets.

3.0 Property Description and Location

3.1 Location and Access

A centrally located point within the Nipissing Diamond Project – Lorrain Property (“Property”) is approximately located at UTM coordinate 5,244,385 N, 605,880 E NAD 83 Zone 17 (47.344339 Lat., 79.598255 Long) at the center of Nicol Lake. The Property is located approximately 243 kilometers southeast of Timmins, Ontario and 158 kilometers north of North Bay, Ontario, via road access. The field crews accessed the Property in Lorrain Township, Larder Lake Mining Division, via road from the community of Cobalt, Ontario and turning south onto Ontario Road 567 for 6.5 kilometres to a gravel logging road on the right and turning southwest on a gravel road 6 km toward the west side of Nicol Lake.

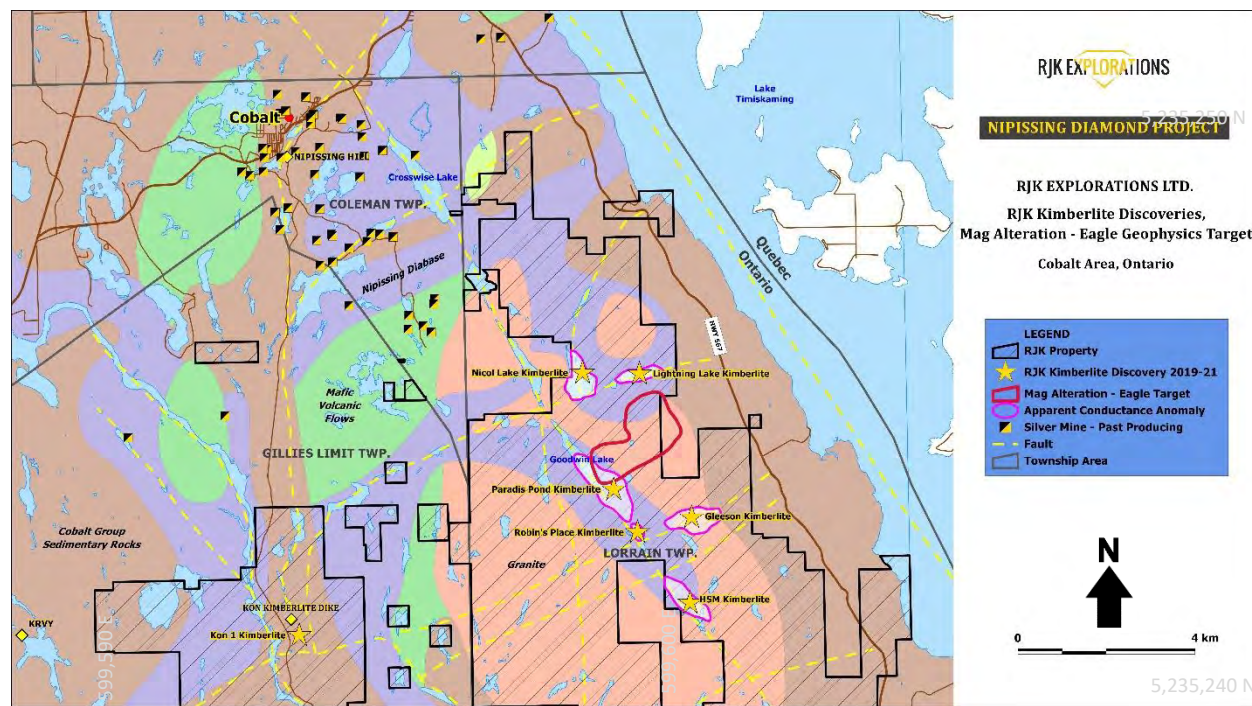


Figure 3.1: General location and property access.

3.2 Topography, Climate and Vegetation

Maximum relief on the property is approximately 25 metres. Topography is generally rolling hills with local steep ledges and cliffs. Overburden is relatively shallow over the claims between 6.6-11.0m. Vegetation on the claims consists mainly of mature mixed forest and locally dense underbrush. Logging was done across much of the area and re-growth is extremely dense and, in some cases, impassable.ⁱ The climate of northern Ontario is generally warm with moderate precipitation from May to October and snow covered and cold weather from November to May.

3.3 Description of Mining Claims Worked

The drilling area consists of mining claims in Lorrain Township, Larder Lake Mining Division. The claims are part of the Nipissing Diamond Project – Lorrain Property. The claims are all contiguous, and owned by RJK Explorations Ltd. Summary information for those mining claim cells on which the drilling program was completed is summarized in Table 3.3.1. Drill hole locations are depicted on a claim map and presented in Figure 4.1.

Table 3.3.1: Summary Mining Claims Worked

| Year | Cell Number | Legacy Claim | Township | Ownership | Due Date |
|------|-------------|---------------------------|----------|----------------------|------------|
| 2020 | 126017 | 4273040, 4282142 | Lorrain | RJK Exploration Ltd. | 2024-10-03 |
| 2020 | 131127 | 428244, 4282705, 4282707 | Lorrain | RJK Exploration Ltd. | 2024-10-24 |
| 2020 | 138563 | 4282401 | Lorrain | RJK Exploration Ltd. | 2023-07-05 |
| 2020 | 155684 | 4273040, 4282142, 4282410 | Lorrain | RJK Exploration Ltd. | 2024-10-03 |
| 2020 | 175091 | 4273040, 4282187, 4282410 | Lorrain | RJK Exploration Ltd. | 2024-10-03 |
| 2020 | 199542 | 4281431, 4282409, 4286187 | Lorrain | RJK Exploration Ltd. | 2024-12-15 |
| 2020 | 203195 | 4282401 | Lorrain | RJK Exploration Ltd. | 2023-07-05 |
| 2020 | 210724 | 4282401 | Lorrain | RJK Exploration Ltd. | 2023-07-05 |
| 2020 | 239443 | 4282142 | Lorrain | RJK Exploration Ltd. | 2024-06-06 |
| 2020 | 247076 | 4282707, 4286186, 4286187 | Lorrain | RJK Exploration Ltd. | 2024-04-06 |
| 2020 | 276783 | 4285517 | Lorrain | RJK Exploration Ltd. | 2026-03-10 |
| 2020 | 277042 | 4282444, 428276, 4282707 | Lorrain | RJK Exploration Ltd. | 2024-10-24 |
| 2020 | 329881 | 4282707, 4286187 | Lorrain | RJK Exploration Ltd. | 2024-04-06 |
| 2020 | 331574 | 4282401 | Lorrain | RJK Exploration Ltd. | 2023-07-05 |
| 2020 | 569259 | No Legacy Claim | Lorrain | RJK Exploration Ltd. | 2022-01-13 |
| 2020 | 567969 | No Legacy Claim | Lorrain | RJK Exploration Ltd. | 2022-01-01 |

4.0 Property Exploration History

The property known as the Bishop Nipissing Diamond Project is composed of several mining claims listed in Table 3.3.1, along with history of the claims as identified in claim abstracts (See Appendix A).

Work completed to date includes grass roots prospecting, a research component, till sampling, screening, concentrating, sorting, and examining potential kimberlite indicator minerals (KIMs), and microphotography. Refer to filed Assessment reports:

Bishop, T., June 6, 2018: Assessment Work Report Claim L 4282142

Bishop, T., June 18, 2018: Assessment Work Report for Cell Claims 277042, 277041, 131127, and 329881

Bishop, T., November 27, 2017: Assessment Work Report L 4281431 and L 4282409

Bishop, T., October 3, 2016: Assessment Work Report Claim L 4273040

A drone magnetic survey using a Geometrics MFAM magnetometer mounted on a DJI M600 drone was conducted by Zen Geomap of Timmins over forty-nine claims wholly or partly within seven flight grids in Lorrain Township between May 29, 2018, and December 28, 2019. Refer to filed Assessment report: Collins, R., March 23, 2020: Assessment Report Drone Magnetic Survey Bishop Nipissing Diamond Project.

Diamond drilling and analytical work has been completed on the property, refer to filed assessment report:

Collins, R., Hubacheck, P.. November 25, 2021: 2019 Exploration Diamond Drilling Report Nipissing Diamond Project – Lorrain Property Lorrain Township Larder Lake Mining Division.

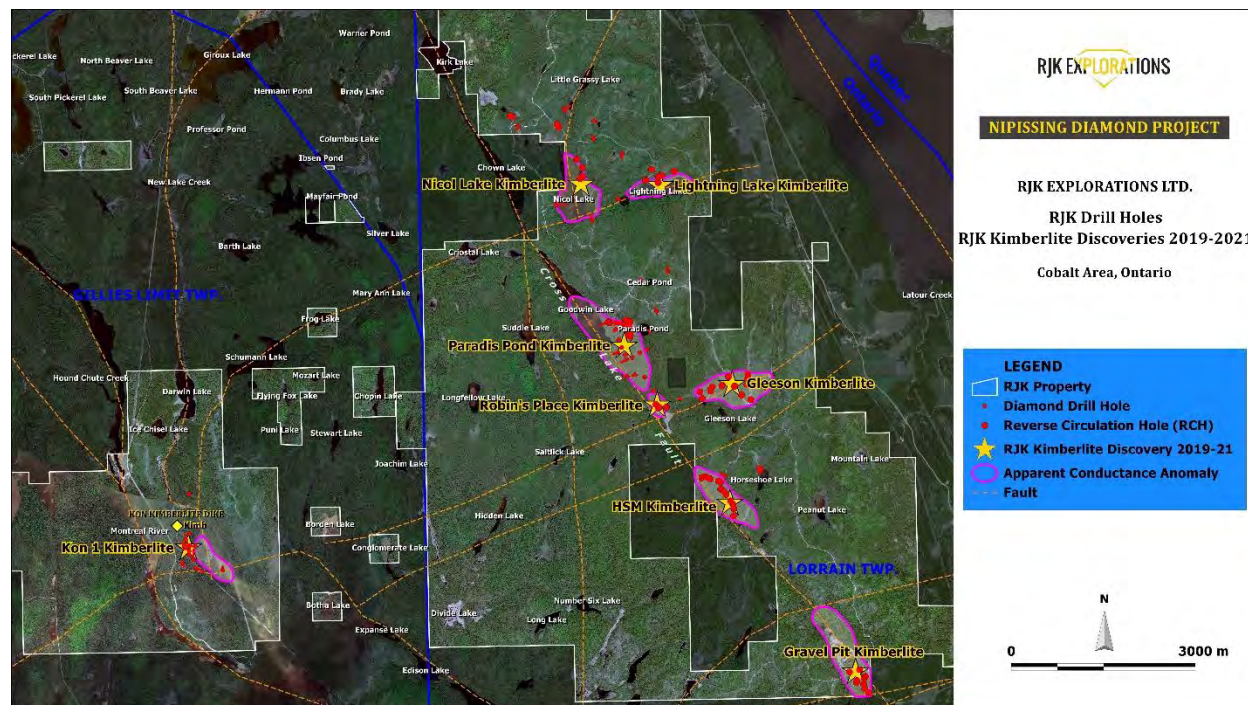


Figure 4.1: Drill hole locations depicted on regional claim map.

5.0 Regional and Local Geology

The information provided in the Regional and Local Geology section of this report is a compilation from various sources. The reader is directed to the references for further reading.

5.1 Regional Geology

The Cobalt area lies within the Superior structural province of the Canadian Shield. Archean basement rocks consist of northwest-southeast trending Archean volcanic intruded by mafic, ultramafic and granitic intrusives. The Archean rocks are unconformably overlain by relatively flat-lying Proterozoic sediments. The sediments consist of conglomerates, greywackes, and quartzites of the Coleman member. The Archean and Proterozoic rocks were intruded by the Nipissing diabase sill intrusive event. Nipissing diabase was intruded ~2219 Ma predominantly as sheets (sills, cone sheets and dikes). The diabase takes the shape of basins and domes were intruded as a sill sheet. The youngest known consolidated rocks in the area are kimberlite pipes.

The rationale of exploring for diamonds in the Temagami region is the diamond-bearing kimberlite pipes and dykes. The Lake Temiskaming Structural Zone is expressed as large-scale normal movement along northwest-trending faults, including the Montreal River and Cross Lake fault systems. Nipissing diabase and gabbro intrusive likely were funnelled through conduits created by this rifting event and kimberlite magmatism is likely to have exploited these same features.ⁱⁱ

Kimberlites in northern and eastern Ontario occur along a trend at approximately 325°. The Lake Temiskaming Structural Zone in eastern Ontario has a northwest trend, and a subordinate northeast trend in the Cobalt and New Liskeard, Ontario areas.ⁱⁱⁱ

There are three major NE trending structures (West Cobalt Lake fault, Kerr Arch and Schumann Arch) and two major NW/SE trending structures (Cross Lake and Montreal River Faults shown in purple, Figure 5.1. In 2019, The Mineral Exploration Research Center published the Cobalt Seismic transect under the direction of Dr. Shawna White. The 40 km transect was conducted on HWY 567 from the east side of Cobalt through Bucke and Lorrain and terminated in South Lorrain Twp. RJK Explorations Ltd.'s major claim dispositions including the Kon and Bishop Properties are outlined in yellow rectangles, Figure 5.1.

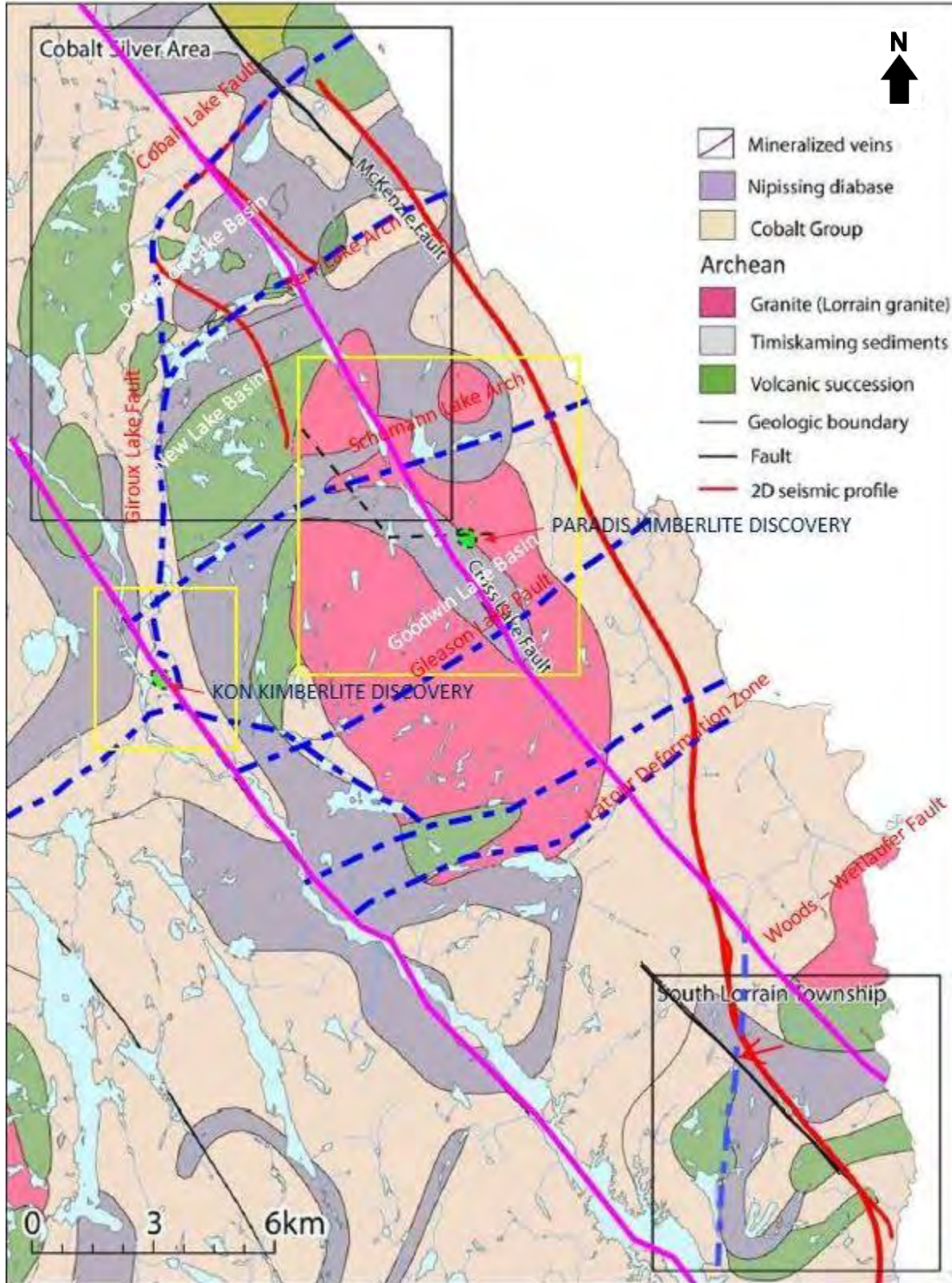


Figure 5.1: Cobalt Silver Area Geology and Structural Architecture – Modified from {MERC Cobalt Seismic Transect Release-2018}

5.2 Local Geology

The following comments were noted by Alan Kon, author of the Assessment Work Report on Claims 1140510 and 3007492 Gillies Township, Larder Lake Mining Division May 2012, that documents an outcrop stripping program.

“The first part of the stripped area is Gowanda series sediments with exceedingly small pebbles to large loosely packed boulders up to - 12 inches in diameter. There are a few small areas with rusty gossans, but no visible sulphides were observed. Further up the stripped area there is one small rusty breccia vein approximately 2 centimeters in width and about 50 centimeters long. The conglomerate meets an unidentified mafic intrusive dike. The conglomerate has a considerable amount of calcite stringer veins and veinlets running between the layers.

The mafic dike also appears to be faulted near the contact. Small calcite veins run perpendicular to the fault with the occasional vein running parallel. The mafic dike itself is mostly very dark green to black in colour but seems to have a bluish tinge. At the faulted area, the mafic rock is very crumbly and somewhat soft but gets much harder as it moves away from the fault.

The exact age or type of the mafic dike is not known but would suggest it is much younger than the relatively young Protozoic aged Gowanda sediments”.^{iv}

5.3 Structural Geology

The information compiled in this section regarding the structural geology of the Kon Property area is sourced from Sage, R.P. 2000. Kimberlites of the Lake Timiskaming structural zone: supplement; Ontario Geological Survey, Open File Report 6018, 123p.

The Lake Timiskaming Structural Zone kimberlites occur at intersections between the regional northwest trend and more local lineaments, faults, and lithologic boundaries. While regionally the distribution of kimberlites follows a northwest pattern, in detail, local clusters of kimberlite pipes may reflect a distribution oblique to the northwest trend and influenced by cross structures as evidenced by the Twin Lake kimberlite discoveries in 1996 by Sudbury Contact Mines Ltd. In 1995 and 1996, the author led a discovery team employing detailed airborne geophysics combined with RC drilling basal till sampling to identify the 95-1, 95-2, 96-1, MR6 kimberlite targets. (Imagery from P. Hubacheck geo-datafiles).

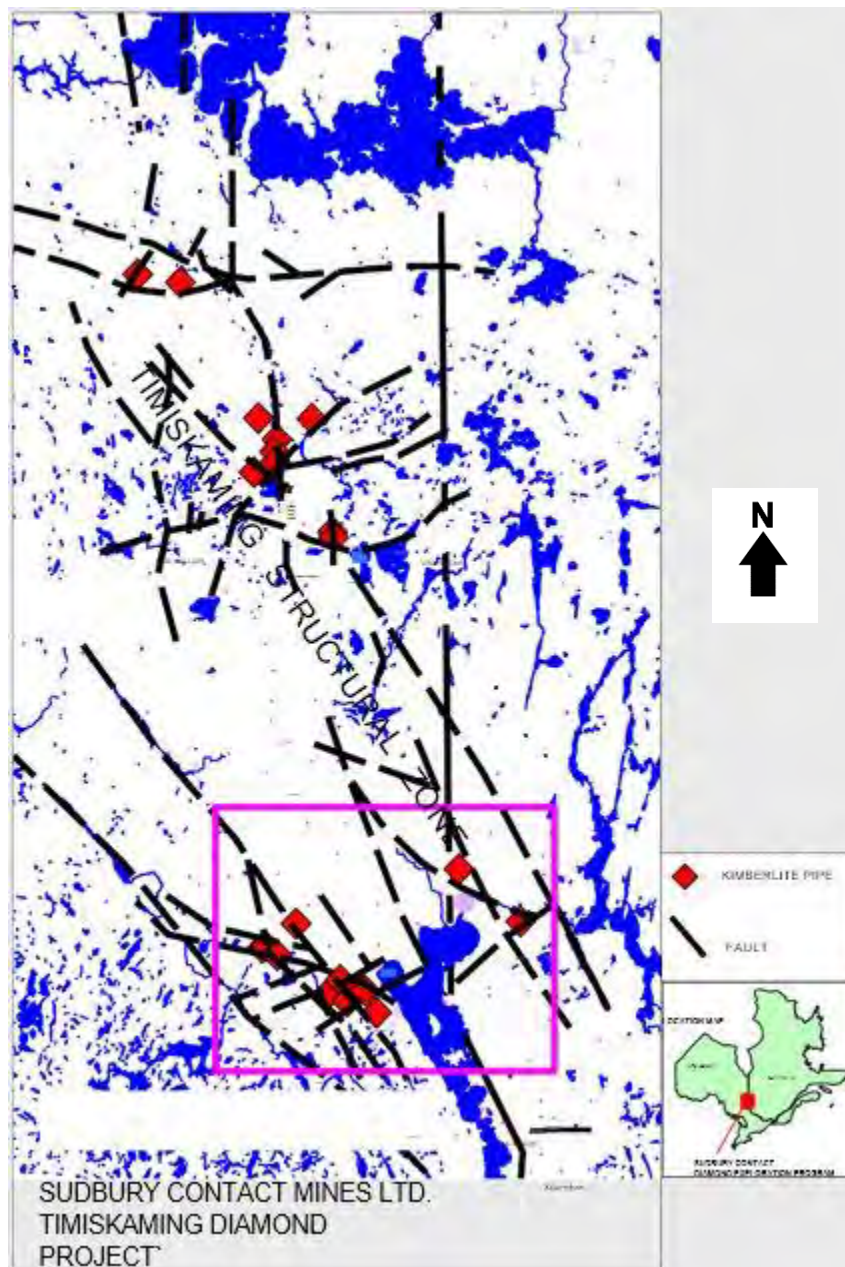


Figure 5.3a: Timiskaming Structural Zone showing Twin Lakes Kimberlites

Along the Lake Timiskaming Structural Zone, faults and lineaments display groupings into north-south, northeast, and northwest trends and these intersecting patterns have broken the crustal rocks into polygonal blocks. Kimberlite intrusions display a preference at being emplaced at intersection points along these structural trends. In the Cobalt – New Liskeard area, kimberlites occur on both flanks of the Lake Timiskaming Structural Zone. Lineament trends intersect at or close to the site of emplacement.



Figure 5.3b: Photo Lineament Structural Analysis of Twin Lakes Kimberlite Field

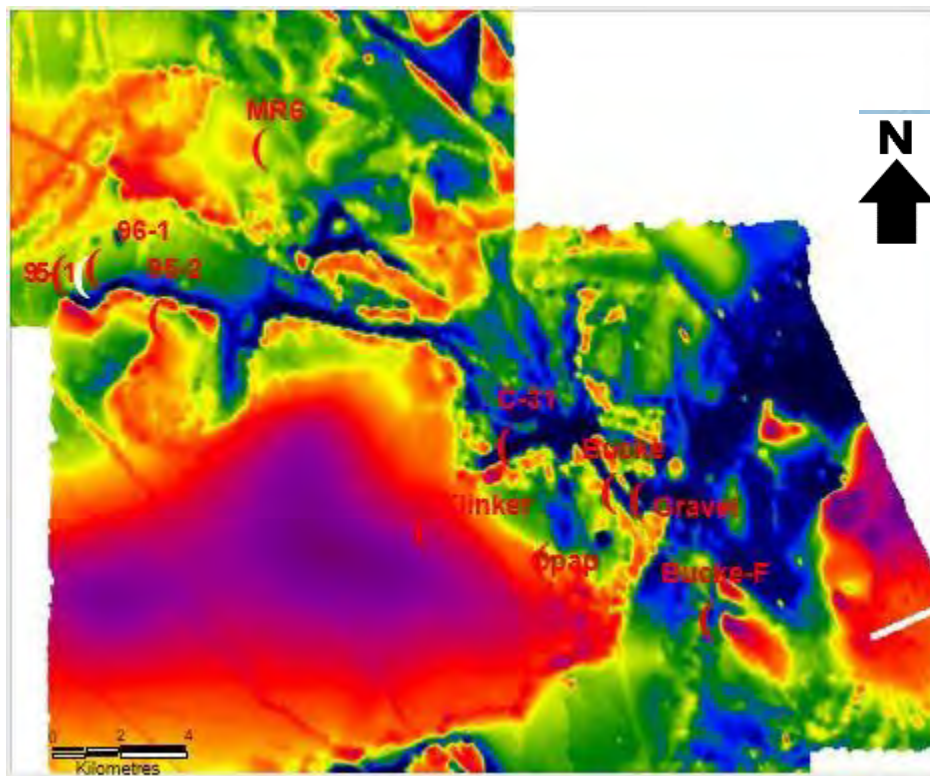


Figure 5.3c: Total Field Airborne Magnetics of Twin Lakes Kimberlite Field

Between Cobalt and New Liskeard, numerous kimberlite pipes occur where more conspicuous northwest-trending faults are intersected by local northeast-trending cross faults. Mapping by Thomson (1956, 1960) and Russell (1984) suggests that the bedrock in this region is broken into many blocks defined by these two structural trends.ⁱⁱⁱ

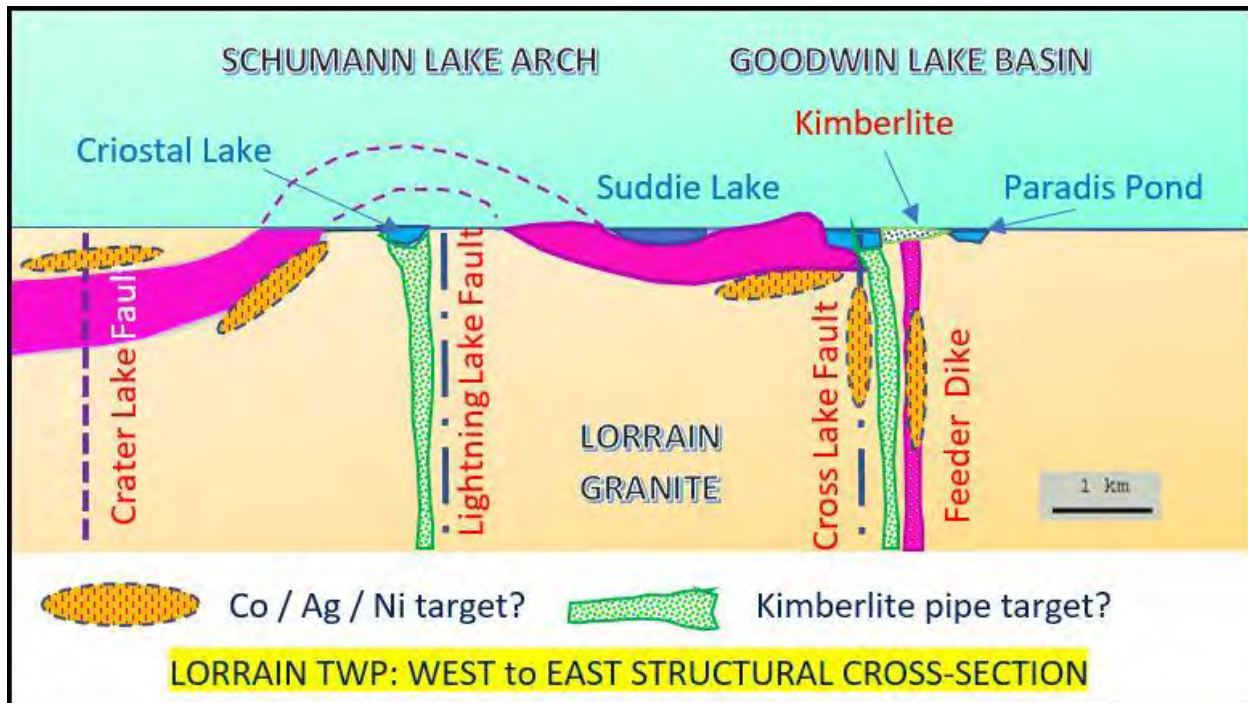


Figure 5.3d: Structural Cross-Section from Schumann Lake Arch to Goodwin Lake Basin

Figure 5.3d depicts a structural cross-section transecting the Schumann Arch and Goodwin Lake basin Crossing over RJK's land holdings. The Nipissing diabase sill intrudes Lorraine Granites with the Schumann Arch showing as an antiform then gently folding into a synform towards Goodwin Lake Basin. The Lightning Lake fault crosscuts the crest of the fold structure on the Arch and the Cross Lake fault appears to terminate the diabase sill in Goodwin Lake. To the east of Goodwin Lake, a steeply dipping mafic dike intrusion has been identified by recent drone magnetic surveys. The Paradis Pond volcanoclastic kimberlite sill is shown on the east side of the dike structure draping over Lorraine granite basement rocks. The possibility for kimberlite fissure intrusions are shown proximal to the Cross Lake fault and Lightning Lake fault.

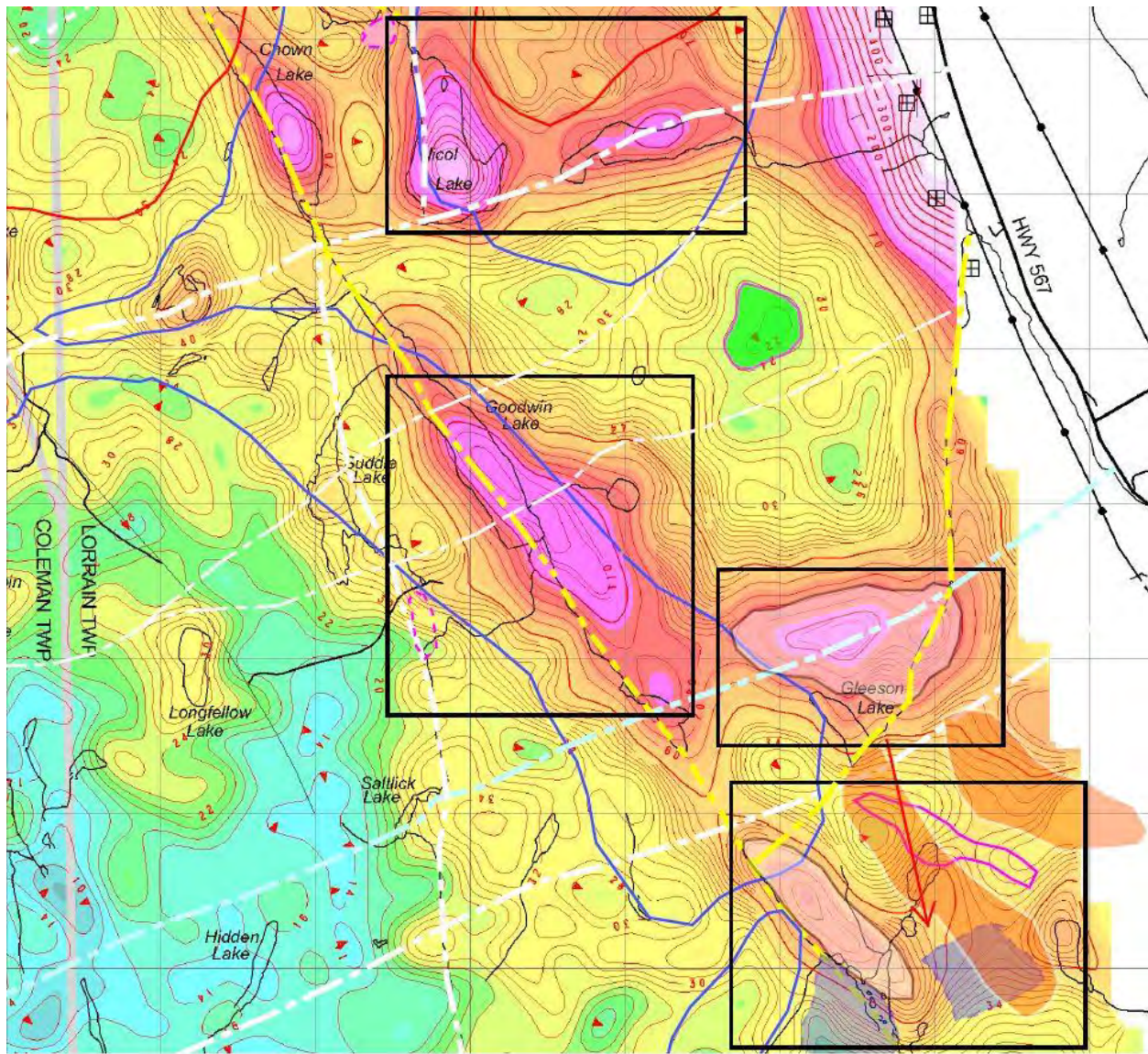


Figure 5.3e: Conductance EM Map showing signature of Nicol, Lightning, Paradis, Gleeson and HSM Kimberlite Bodies

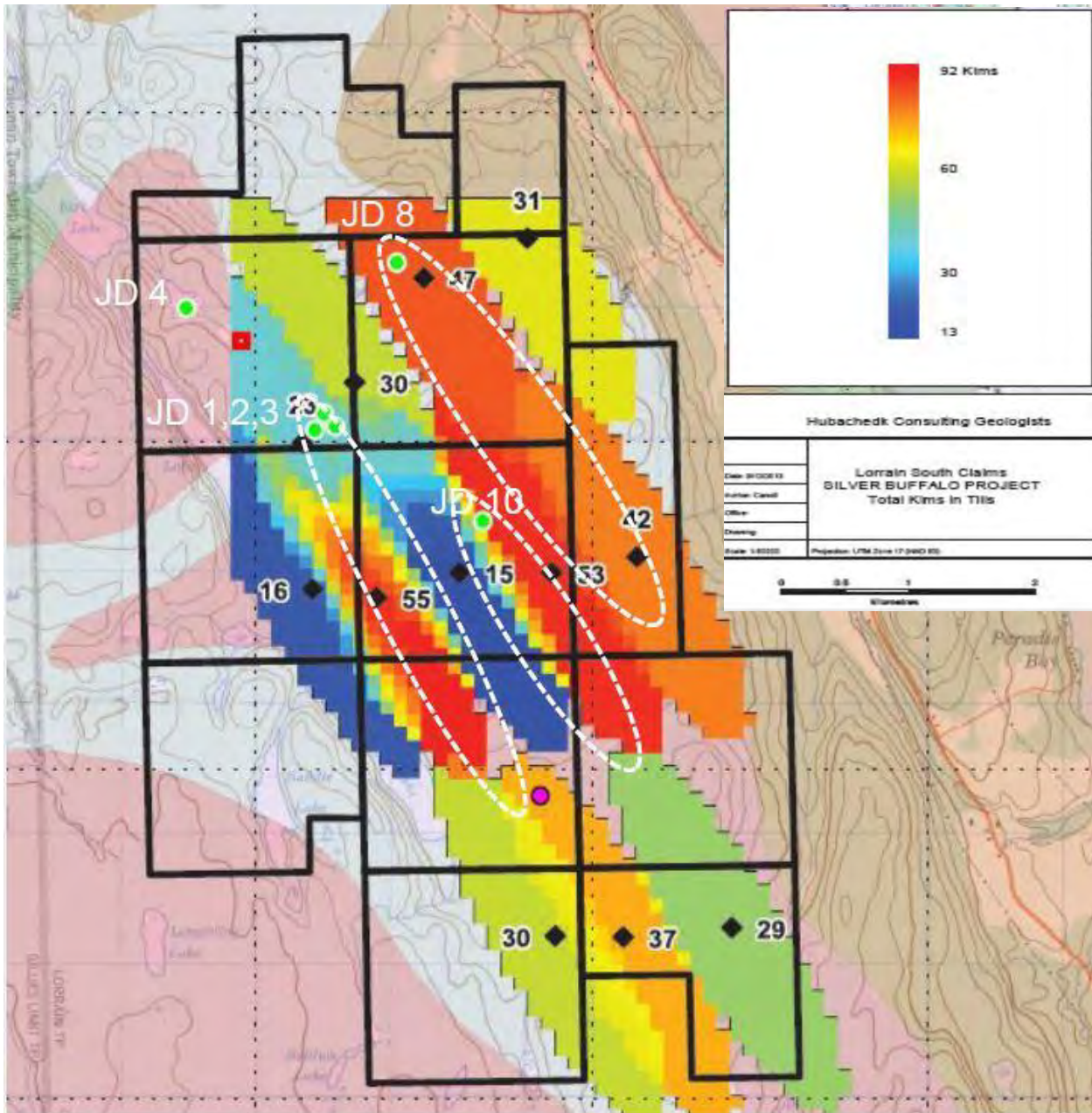


Figure 5.3f: Total KIMS in Tills showing Dispersion Trains in Nicol Lake Area – Silver Buffalo Project 2012

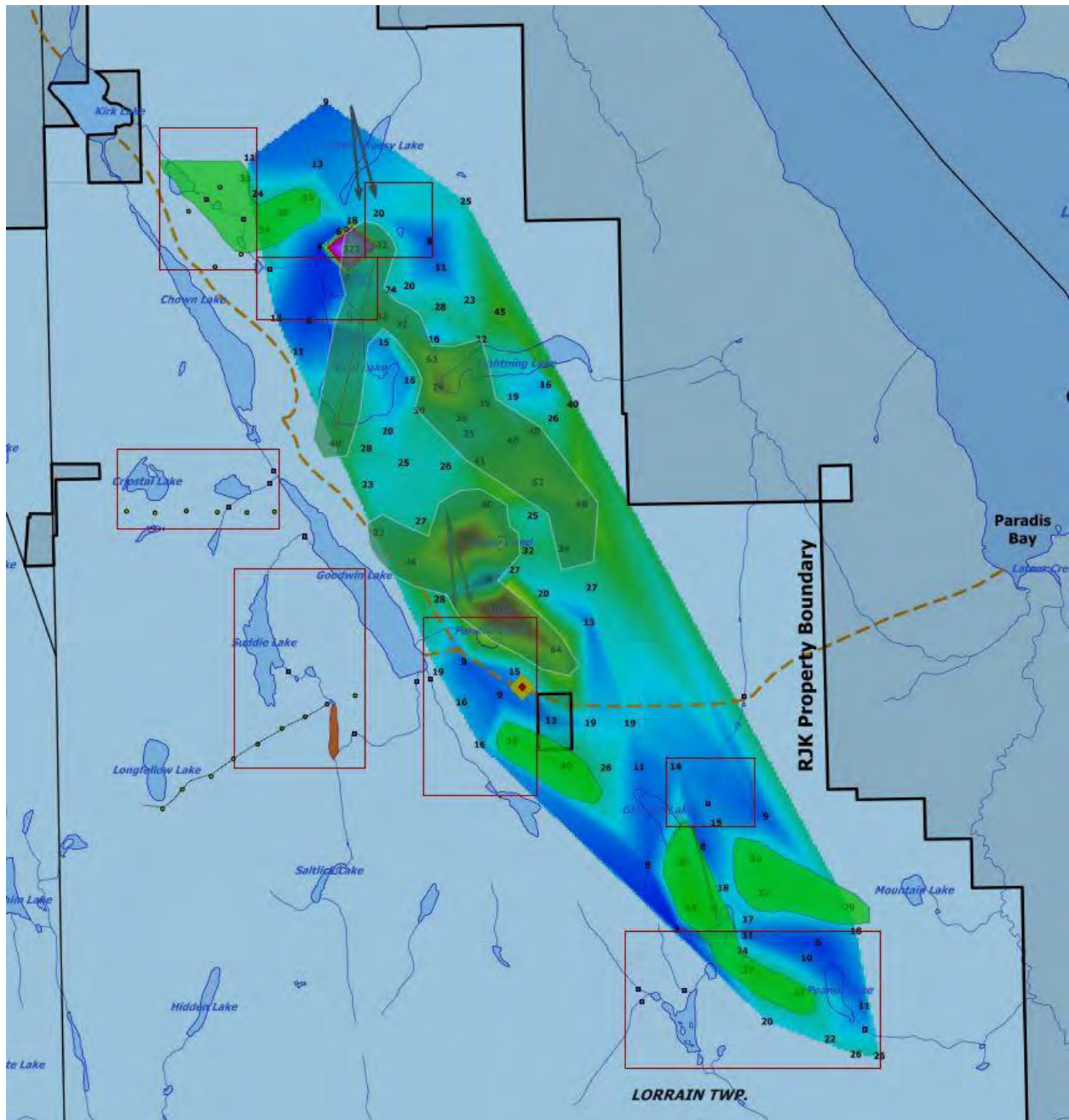


Figure 5.3g: Total KIMS in Tills showing Dispersion Trains in Lorrain Twp.– Bishop Till Sampling Project 2019

6.0 Type of Mineral Deposit / Commodity

The RJK Explorations Ltd. is exploring for diamondiferous kimberlite pipes by initially testing magnetic lows and magnetic highs identified by previous magnetometer survey work. The magnetic anomalies were selected up-ice of kimberlite mineral dispersion trains identified by independent till sampling programs conducted in 2012 and 2019 by Hubacheck Consulting Geologists and Tony and Graeme Bishop in 2019, see Figures 5.3f and 5.3g. The initial testing of magnetic anomalies was not effective. RJK initiated IP coverage bracketing the Paradis Pond area which was successful in identifying conductive shallow features to depths of 25 meters. In addition, government airborne conductance maps were highly effective in detecting the Lorrain Twp. Kimberlite Field which also overlapped the IP survey grid. Drone Magnetometer surveys in the Paradis Pond area was also an effective tool for identifying mafic dike trends possibly controlling the emplacement of kimberlite fissure eruptions exploiting the dike trends.

The reader is encouraged to refer to Sage (1996) for a discussion of the geophysical expression of kimberlite pipes in this region. In summary, within the Cobalt – New Liskeard area at least three kimberlite intrusions have a negative magnetic response including the diamondiferous 96-1 pipe. The geochronology suggests that kimberlite emplacement spanned approximately 30 Ma and straddled a magnetic polar reversal in the earth's magnetic field.^v The kimberlite intrusions commonly display oval to circular isomagnetic contour patterns, and some appear to be highly elongated.^v

7.0 Diamond Drilling Program

7.2 2020 Summer Drilling Program

The phase 1 drilling commenced March 6, 2020 and ended on March 30, 2020. Phase 2 drilling commenced on June 30, 2020 and ended on December 10, 2020. A total 1,961.4 meters in twenty-six diamond drill holes were drilled during the period by Huard Diamond Drilling of New Liskeard. The exploration permit numbers for the work performed on the property are:

PR-18-000247, effective January 24, 2019, to January 24, 2022,
 PR-19-000070 effective June 7, 2019, to June 7, 2022,
 PR-19-000071, effective May 27, 2019, to May 27, 2022,
 PR-20-000251, effective October 2, 2020, to October 1, 2023,
 PR-20-000292, effective November 11, 2020, to November 10, 2023,
 PR-20000293, effective November 11, 2020, to November 10, 2023, and
 PR-20-000297, effective November 25, 2020, to November 24, 2023.

All the holes in the Paradis Pond (PP) intersected kimberlite except for PP-20-20 and all fall within the EM conductance anomaly. Drilling of the Paradis Pond kimberlite now shows that the body extends for some 1.2 kilometers in length and a minimum of 400 meters wide with an average thickness of 11 meters. Approximately 55% of this conductance anomaly has been tested by wide spaced drill holes within a perimeter area of 87 hectares measuring approximately 2,000 m in length and by widths varying from 400 meters to 600 meters. Additional in-fill drilling is required to further define the boundaries of each of the conductance anomalies.

Near Paradis Pond, 8 holes have not intersected kimberlite while testing geophysical anomalies outside of the EM conductance anomalies (B-20-01,02,03,05; LG-20-01,02,03; and PP-20-20). All four kimberlite bodies discovered to date visually appear to have similar phase lithologies and deposited in similar geologic settings. Other untested conductance signatures are located within the company's land holdings.

Robin's Place and Gleeson kimberlites are located 200 meters south and 900 meters southeast of the Paradis Pond kimberlite. The HSM kimberlite is located 1 km southeast of the Robin's Place body. Kimberlite drill intercepts from Paradis, Robin's Place, Gleeson and HSM all lie within conductance anomalies of 87, 10, 40 and 46 hectares, respectively. To date, drill holes located outside these conductance zones have not intersected kimberlite.

Drilling resumed following a cease work period due to COVID-19 mandate. A total of 26 vertical and angled holes being drilled, resulting in the expansion of the Paradis Pond kimberlite, in addition to discovering 3 new kimberlites Robin's Place, Gleeson, and HSM which are all located in Lorrain Township. The total dimension of these kimberlites is still to be determined by drilling.

Little Grassy (LG) holes were testing magnetic lows and magnetic highs identified by previous magnetometer survey work. These holes were not successful in intersecting kimberlite while testing anomalies outside the EM conductance anomalies.

The Gleeson conductance anomaly was tested with two vertical drill holes aligned along a West to East fence and collared 600 meters apart within a larger conductance anomaly measuring approximately 1,400 meters in length by 600 meters in width representing a perimeter area of 40 hectares. Hole GL-20-1 and hole GL-20-2 intersected 5.8 meters and 14.1 meters of kimberlite under shallow overburden depths of 3 meters and metres, respectively.

The HSM conductance anomaly was tested with three vertical drill holes aligned along a SE fence and collared 200 meters apart within a larger conductance anomaly measuring approximately 1,500 meters in length by 300 meters in width representing a perimeter area of 46 hectares. Holes HSM-20-1, HSM-20-2 and HSM-20-03 intersected 14.85 meters, 48.2 meters and 18.1 meters of kimberlite under shallow overburden depths ranging from 4 meters to 12 metres, respectively.

Additional in-fill drilling is required to further define the boundaries of each of the conductance anomalies. All three kimberlite bodies discovered to date visually appear to have similar phase lithologies and deposited in similar geologic settings.

7.2.1 Technical Aspects of the Drill Program

In general, access to the drilling area was good via HWY 567 accessing a logging road system in Lorrain Twp, to the property areas such that the drilling equipment could be floated with tandem trailer. Huard Drilling of New Liskeard, Ontario used a hydraulic drill to drill BTW core diameter (42mm) to a maximum depth of 208 meters. The drill was aligned using GPS and compass at the drill site by an RJK Exploration Ltd. geologist. Drill hole inclination was surveyed at fifty-meter intervals and at the end of the hole with a Reflex single shot tool which utilized a magnetic compass to measure azimuth and dip.

7.2.3 Location of Drill Holes

All drill hole collars were positioned with a Garmin 78S GPS unit and verified with a Magellan 1000 unit. Elevations were determined from Google Earth WGS 84.

7.2.2 Drill Hole Information

Drill hole information is summarized in Table 7.2.3.1 with UTM co-ordinates in NAD 83 Zone 17. Geologist, Peter Hubacheck supervised diamond drilling in the field and logged the diamond drill core.

Table 7.2.3.1: Summary of Drill Hole Information sorted by drilling dates

| HOLE_ID | EASTING | NORTHING | ELEV (m) | Length (m) | Azimuth | Dip | DDH Started | DDH Completed |
|-----------|---------|----------|----------|------------|---------|-----|-------------|---------------|
| B-20-01 | 606660 | 5245147 | 335 | 130 | 180 | -50 | 06-Mar-20 | 13-Mar-20 |
| B-20-02 | 606175 | 5244052 | 311 | 158.5 | 340 | -50 | 14-Mar-20 | 17-Mar-20 |
| B-20-03 | 606583 | 5244409 | 302 | 81.5 | 120 | -50 | 19-Mar-20 | 21-Mar-20 |
| B-20-05 | 605727 | 5245870 | 316 | 157 | 60 | -50 | 27-Mar-20 | 30-Mar-20 |
| LG-20-01 | 605715 | 5245860 | 317 | 75 | 125 | -50 | 30-Jun-20 | 02-Jul-20 |
| LG-20-02 | 606200 | 5245380 | 333 | 100 | 325 | -50 | 03-Jul-20 | 14-Jul-20 |
| LG-20-03 | 606200 | 5245680 | 337 | 85 | 120 | -50 | 16-Jul-20 | 18-Jul-20 |
| PP-20-01 | 606607 | 5242377 | 337 | 121 | 255 | -50 | 22-Jul-20 | 24-Jul-20 |
| PP-20-02 | 606555 | 5242279 | 327 | 75 | 225 | -50 | 27-Jul-20 | 30-Jul-20 |
| PP-20-03 | 606440 | 5242410 | 324 | 72.4 | 360/180 | -90 | 31-Jul-20 | 05-Aug-20 |
| PP-20-04 | 606432 | 524209 | 324 | 231 | 245 | -50 | 06-Aug-20 | 21-Aug-20 |
| PP-20-05A | 606547 | 524399 | 334 | 30.5 | 360/180 | -90 | 22-Aug-20 | 27-Aug-20 |
| PP-20-06 | 606608 | 5242114 | 328 | 50 | 245 | -50 | 28-Aug-20 | 31-Aug-20 |
| PP-20-07 | 606654 | 5241984 | 322 | 17 | 360/180 | -90 | 05-Sep-20 | 10-Sep-20 |
| PP-20-08 | 606713 | 5241871 | 331 | 135 | 245 | -50 | 11-Sep-20 | 20-Sep-20 |
| PP-20-09 | 606728 | 5241790 | 325 | 160 | 238 | -50 | 21-Sep-20 | 27-Sep-20 |
| PP-20-10 | 606824 | 5241822 | 340 | 25.4 | 360/180 | -90 | 27-Sep-20 | 28-Sep-20 |
| PP-20-11 | 606944 | 5241900 | 350 | 11.15 | 360/180 | -90 | 28-Sep-20 | 28-Sep-20 |
| PP-20-12 | 607069 | 5241950 | 350 | 5.1 | 360/180 | -90 | 29-Sep-20 | 30-Sep-20 |
| PP-20-13 | 606800 | 5242134 | 346 | 18.75 | 360/180 | -90 | 01-Oct-20 | 02-Oct-20 |
| GL-20-01 | 610450 | 5236625 | 335 | 28.5 | 360/180 | -90 | 12-Nov-20 | 13-Nov-20 |
| GL-20-02 | 610295 | 5236885 | 320 | 22.4 | 360/180 | -90 | 13-Nov-20 | 14-Nov-20 |
| HSM-20-01 | 608462 | 5239425 | 319 | 31.5 | 360/180 | -90 | 29-Nov-20 | 30-Nov-20 |
| HSM-20-02 | 608247 | 5239670 | 340 | 52.25 | 360/180 | -90 | 01-Dec-20 | 01-Dec-20 |
| HSM-20-03 | 607952 | 5239834 | 338 | 25.45 | 360/180 | -90 | 02-Dec-20 | 02-Dec-20 |
| PP-20-20 | 609100 | 5239000 | 320 | 62 | 240 | -50 | 08-Dec-20 | 10-Dec-20 |

Note: Coordinates shown are UTM NAD 83 Zone 17

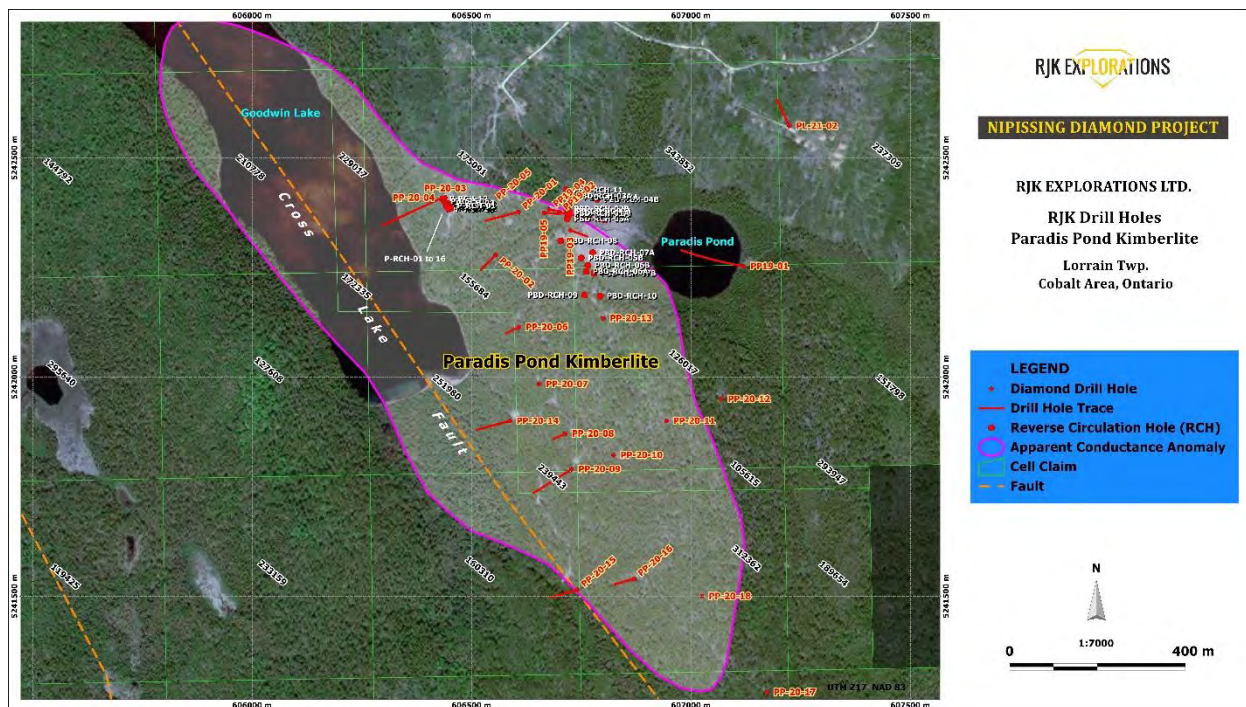


Figure 7.2.3.1: Paradis Pond Kimberlite Drill Location Map

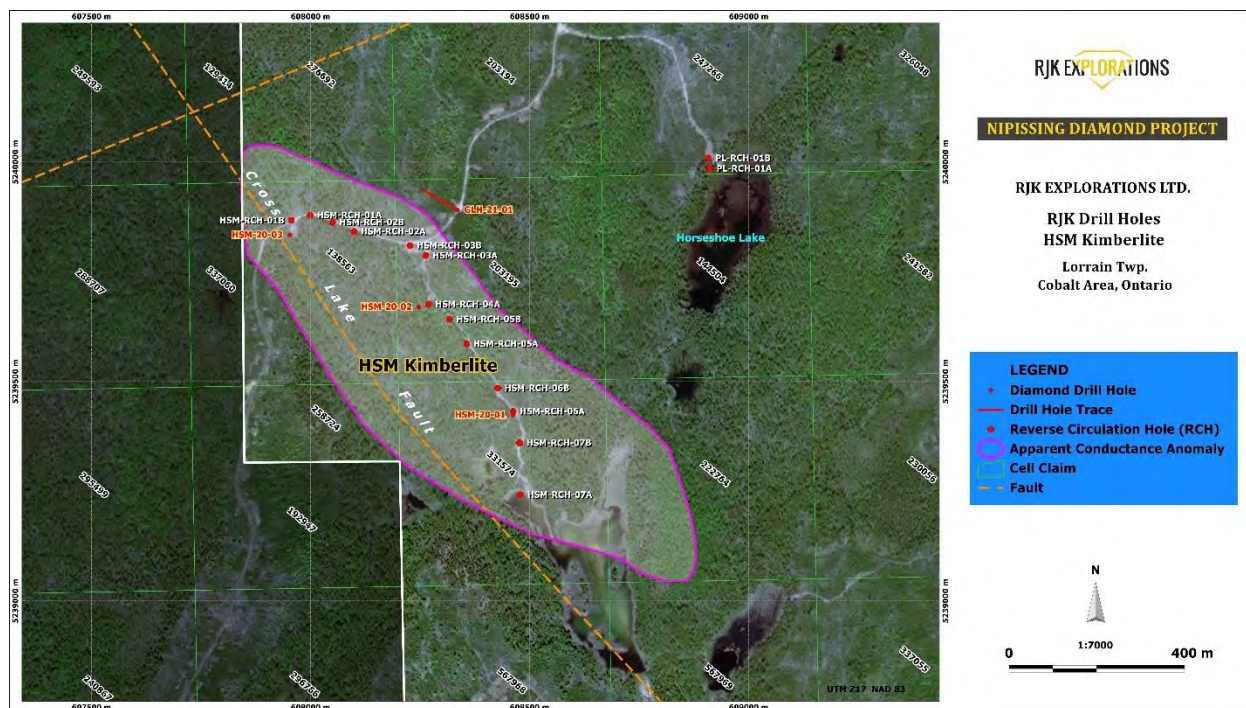


Figure 7.2.3.2: HSM Kimberlite Drill Location Map

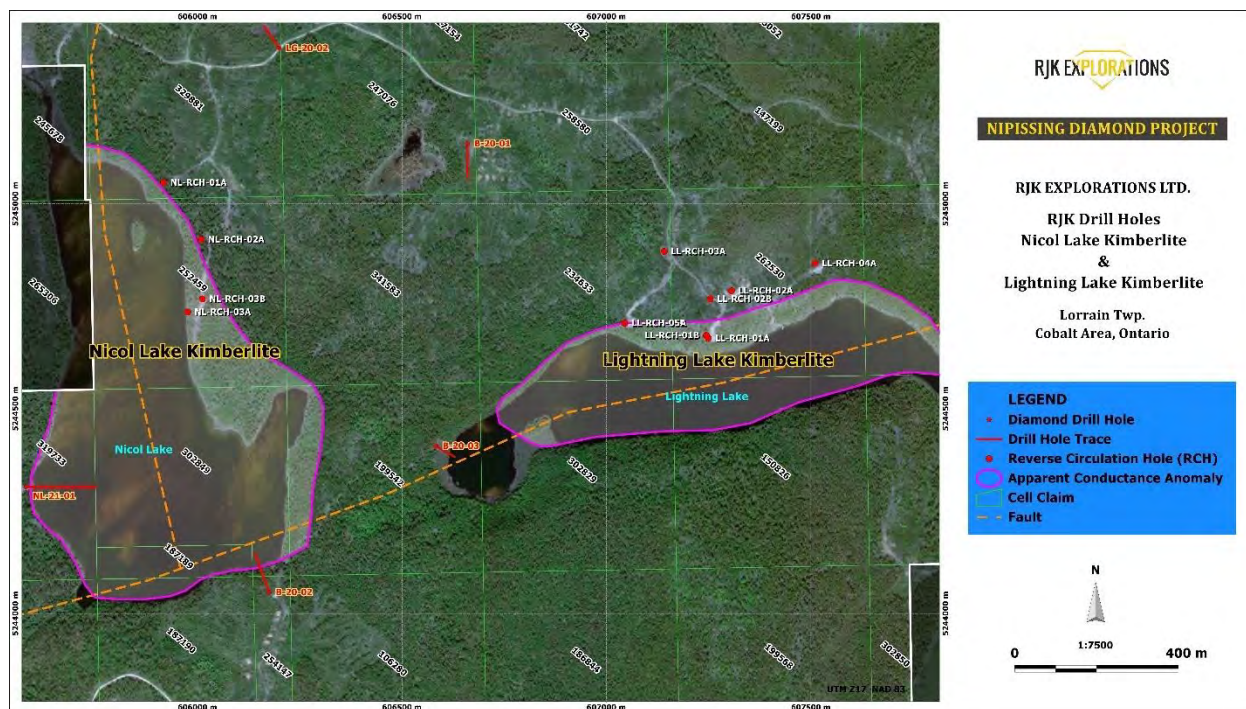


Figure 7.2.3.3: Nicol Lake and Lightning Lake Kimberlite Drill Location Map

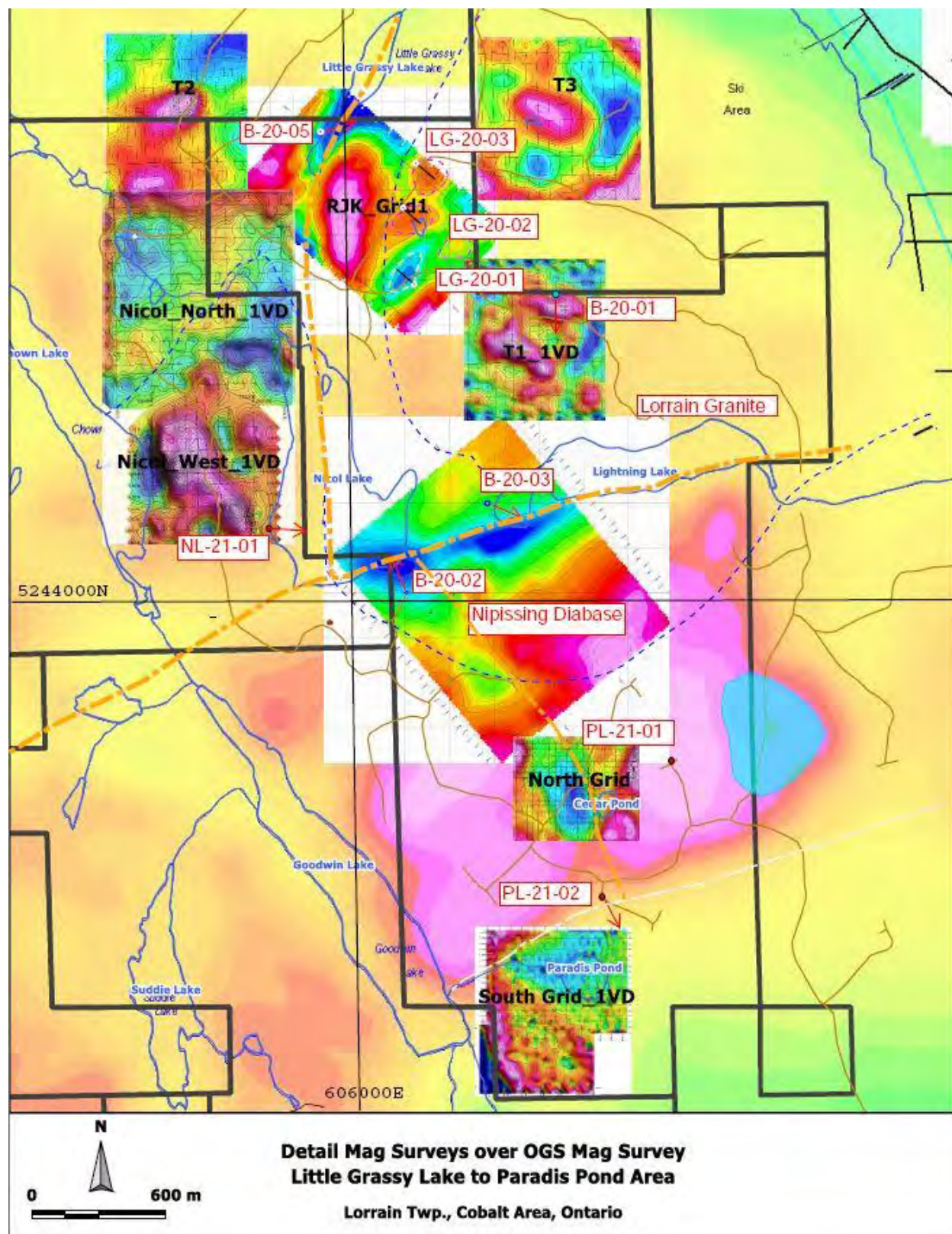


Figure 7.2.3.4: Nicol Lake North and Little Grassy Lake Drill Location Map

8.0 Results

8.1 Sampling and Description of Kimberlite Processing Results

Upon completion of a drill hole, geologists completed logs for geological observations. The drill logs can be found in Appendix B. Drill holes were selectively sampled by the logging geologist within prospective lithologies. A bulk sample was collected from the drill core of holes PP-20-03, PP-20-04, PP-20-08 and PP-20-09. See Appendix C for assay certificates. Holes PP-20-01, PP-20-02, PP-20-05 to PP-20-07, PP-20-10 to PP-20-13, PP-20-20, B-20-01 to B-20-05, GL-20-01, GL-20-02 and LG-20-01 to LG-20-03 and HSM-20-01 to HSM-20-03 were not sampled.

In September 2020, RJK excavated 3 batches of kimberlite material from trenches in the vicinity of drill holes PP-20-13, PP-20-12 and PP-20-07 where overburden depths were estimated to range from 3 meters to 4 meters.

8.2 Diamond Processing Results

From a 156 kg drill core samples selected from 4 drill holes (PP-20-03,04,08,09), a picking weight of 179 g from 341 g of heavy mineral concentrates, 1,914 grains were picked and 243 grains probed and classified into 6 diamond indicator minerals.

8.3 Micro-Probe Indicator Mineral Results

Paradis Pond

The micro-probe results from the 156 kg drill core samples are stated as follows: 18 were diamond inclusion olivine/forsterite; 2 were G9 eclogitic garnets believed to originate between 150 km to 200 km depths; 8 were diamond inclusion clinopyroxenes; 17 kimberlite chromites including 7 high titanium chromites, 10 were G10 peridotitic garnets; 2 were diamond inclusion G11 garnets. Of importance is that 18 olivine/forsterite grains classify in all diamond inclusion fields and 2 G9 eclogitic and 16 high pressure megacrystic garnets are associated with diamond formation at depths of about 200 km or more. A total of 5 microdiamonds were recovered and all stones are described as: natural, white, chip with adamantine lustre, very strong colour emission with no inclusions. One diamond from holes PP-20-03/04 is described as an irregular crystal with fractured surface, weakly yellow with adamantine lustre, very strong colour emission with no inclusions. Of particular significance is the diamond bearing Paradis kimberlite may have originated in the upper mantle passing through both group 1 and group 2 eclogitic magma fields and therefore can assimilate both group 1 and group 2 eclogitic clinopyroxenes and garnets.

Paradis Pond: 2020 Trench Excavation Sampling

In September 2020, RJK excavated 3 batches of kimberlite material from 3 trenches in the Paradis Pond area totalling 3,583 kg. The trenches were selected where overburden depths were drill indicated at 3 to 4 m. The reach of the excavator bucket was able to cut into the top layer of the kimberlite body approaching 4 meter depths but also encountered fluvial outwash mixed with kimberlite olivine matrix at

3m level. When the samples were processed by Microlithics Lab, it was determined that significant dilution of overburden (30%) was incorporated into the sample. No diamonds were recovered after processing the 3 batches and the samples were not representative of the main kimberlite body. RJK anticipates employing larger excavators to extend the depth reach up to 6m from surface.

9.0 Descriptions of Drill Holes

Drill Hole PP-20-01

Drill hole PP-20-01 was collared at 606,607.0 E, 5,242,377.0 N and drilled with a 255 degrees azimuth and a -50 degrees dip to a final depth of 121.0 meters.

PP-20-01 intersected 13 meters of overburden consisting of boulder till followed by a heterolithic matrix supported breccia with mixed angular and rounded blocks. The remainder of the hole was Lorrain Granite with equigranular pinkish feldspar phenocrysts. A fault zone cut the Lorrain Granite at 94.7-96.5m.

Two downhole surveys were measured from the hole. No samples were collected.

Drill Hole PP-20-02

Drill hole PP-20-02 was collared at 606,555.0 E, 5,242,279.0 N and drilled with a 225 degrees azimuth and a -50 degrees dip to a final depth of 75.0 meters.

PP-20-02 intersected 10 meters of overburden consisting of pebbles and cobbles in contact with kimberlite followed by heterolithic tuffisitic kimberlite breccia with mixed angular to rounded blocks ranging from 0.2cm to 40cm. The hole ended in Lorrain Granite, a massively bedded coarse grained unit with 45% equigranular pinkish phenocrysts.

Two downhole surveys were measured from the hole. No samples were collected.

Drill Hole PP-20-03

Drill hole PP-20-03 was collared at 606,440.0 E, 5,242,410.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 72.4 meters.

PP-20-03 intersected 4 meters of overburden consisting of pebbles and cobbles in contact with kimberlite followed by a heterolithic tuffisitic matrix supported breccia with mixed angular and rounded blocks. The remainder of the hole was Lorrain Granite with equigranular pinkish feldspar phenocrysts in a coarse grain groundmass. Several faults with gouge were noted. One downhole survey was measured from the hole. 44 kg of kimberlite from PP-20-03 and 04 were collected for diamond processing.

Drill Hole PP-20-04

Drill hole PP-20-04 was collared at 606,432.0 E, 5,242,409.0 N and drilled with a 245 degrees azimuth and a -50 degrees dip to a final depth of 231.0 meters.

PP-20-04 intersected 4.5 meters of overburden consisting of boulder till and angular diabase boulders in contact with kimberlite followed by a heterolithic tuffisitic matrix supported breccia with mixed angular and rounded blocks. Lorrain Granite massively bedded; equi-granular pinkish feldspar phenocrysts in a coarse grained groundmass were intersected at hole depths of 25.6-43.5m, 52.35-73.9m and 83.65-231.0m. A fault zone was observed 50.6-52.35m composed of 90% broken rubbly diabase at the lower contact of the fine-grained diabase dike logged from 42.5-50.6m. Another diabase dike was observed at 73.9-83.65m. The hole ended in Lorrain Granite.

Three downhole surveys were measured from the hole. 44 kg of kimberlite from PP-20-03 and 04 were collected for diamond processing. The hole was sampled for multi-trace element analysis using the Sodium Peroxide fusion ICP-MS method from 40.5m - 50.6m and from 72.9m – 84.65m.

Drill Hole PP-20-05A

Drill hole PP-20-05A was collared at 606,547.0 E, 5,242,399.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 30.5 meters.

PP-20-05A intersected 6 meters of overburden consisting of boulder till followed by a heterolithic tuffisitic matrix supported breccia with mixed angular and rounded blocks. Lorrain Granite breccia was intersected between 15.2-18.25m followed by a typical Lorrain Granite with equigranular pinkish feldspar phenocrysts in a coarse grain groundmass. The hole ended in Lorrain Granite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole PP-20-06

Drill hole PP-20-06 was collared at 606,608.0 E, 5,242,114.0 N and drilled with a 245 degrees azimuth and a -50 degrees dip to a final depth of 50 meters.

PP-20-06 intersected 4 meters of overburden consisting of boulder till followed by a heterolithic tuffisitic matrix supported breccia with mixed angular and rounded blocks. The hole ended in Lorrain Granite with equigranular pinkish feldspar phenocrysts in a coarse grain groundmass.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole PP-20-07

Drill hole PP-20-07 was collared at 606,654.0 E, 5,241,984.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 17.25 meters.

PP-20-07 intersected 3 meters of overburden consisting of cobbles followed by heterolithic tuffisitic kimberlite breccia with mixed angular to rounded blocks ranging from 0.1cm to 20cm. The hole ended in Lorrain Granite, a massively bedded coarse grained unit with 45% equigranular pinkish phenocrysts.

No downhole surveys were measured from the hole and no samples were collected. In September 2020, RJK excavated 3 batches of kimberlite material from trenches in the vicinity of drill holes PP-20-13, PP-20-12 and PP-20-07 where overburden depths were estimated to range from 3 meters to 4 meters.

Drill Hole PP-20-08

Drill hole PP-20-08 was collared at 606,713.0 E, 5,241,871.0 N and drilled with a 245 degrees azimuth and a -50 degrees dip to a final depth of 135.5 meters.

PP-20-08 intersected 7 meters of overburden consisting of diabase and granitoid boulder till followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The next lithologic unit downhole was Lorrain Granite with equigranular pinkish feldspar phenocrysts in a coarse grain groundmass intruded by a diabase dike between 70-95.55m. The hole ended in Lorrain Granite.

Two downhole surveys were measured from the hole. The hole was sampled for multi-trace element analysis using the Sodium Peroxide fusion ICP-MS method. from 69m - 96.55m and a bulk sample weighing 67 kg from 7.1m - 31.3m.

Drill Hole PP-20-09

Drill hole PP-20-09 was collared at 606,728.0 E, 5,241,790.0 N and drilled with a 238 degrees azimuth and a -50 degrees dip to a final depth of 160.0 meters.

PP-20-09 intersected 5 meters of overburden consisting of diabase and granitoid cobbles followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. Lorrain Granite a massively bedded; equi-granular pinkish feldspar phenocrysts in a coarse-grained groundmass were intersected at hole depths of 29.7-58.7m, and 82.25-131.6m. The Cross Lake Fault Zone was observed at the end of the hole within the Lorrain Granite. A diabase dike was observed at 58.7-82.25m. The hole ended in Lorrain Granite.

No downhole surveys were measured from the hole. A bulk sample weighing 54 kg from 5m - 29.7m was submitted for electron microprobe analysis.

Drill Hole PP-20-10

Drill hole PP-20-10 was collared at 606,824.0 E, 5,241,822.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 25.4 meters.

PP-20-10 intersected 7.1 meters of overburden consisting of diabase and granitoid boulder till followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The next lithologic unit downhole was Lorrain Granite with equi-granular pinkish feldspar phenocrysts in a coarse grain groundmass. The hole ended in Lorrain Granite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole PP-20-11

Drill hole PP-20-11 was collared at 606,944.0 E, 5,241,900.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 11.15 meters.

PP-10-11 intersected 5 meters of overburden consisting of 40cm granitoid and diabase cobbles followed by heterolithic volcanoclastic kimberlite breccia matrix supported with mixed angular to rounded blocks

ranging from 0.05cm to 30cm. The hole ended in Lorrain Granite, a massively bedded coarse grained unit with 45% equigranular pinkish phenocrysts.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole PP-20-12

Drill hole PP-20-12 was collared at 607,069.0 E, 5,241,950.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 5.1 meters.

PP-10-12 intersected 3 meters of overburden consisting of 40cm granitoid and diabase cobbles followed by heterolithic volcanoclastic kimberlite breccia matrix supported with mixed angular to rounded blocks ranging from 0.05cm to 30cm. The hole ended in Lorrain Granite, a massively bedded coarse grained unit with 45% equigranular pinkish phenocrysts.

No downhole surveys were measured from the hole and no samples were collected. In September 2020, RJK excavated 3 batches of kimberlite material from trenches in the vicinity of drill holes PP-20-13, PP-20-12 and PP-20-07 where overburden depths were estimated to range from 3 meters to 4 meters.

Drill Hole PP-20-13

Drill hole PP-20-13 was collared at 606,800.0 E, 5,242,134.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 18.75 meters.

PP-10-13 intersected 2.5 meters of overburden consisting of 20cm granitoid and diabase cobbles followed by heterolithic volcanoclastic kimberlite breccia matrix supported with mixed angular to rounded blocks ranging from 0.05cm to 30cm. The hole ended in Lorrain Granite, a massively bedded coarse grained unit with 45% equigranular pinkish phenocrysts.

No downhole surveys were measured from the hole and no samples were collected. In September 2020, RJK excavated 3 batches of kimberlite material from trenches in the vicinity of drill holes PP-20-13, PP-20-12 and PP-20-07 where overburden depths were estimated to range from 3 meters to 4 meters.

Drill Hole PP-20-20

Drill hole PP-20-20 was collared at 609,100.0 E, 5,239,000.0 N and drilled with a 240 degrees azimuth and a -50 degrees dip to a final depth of 62.0 meters. The hole targeted a magnetic low anomaly.

PP-20-01 intersected 3 meters of overburden followed by Lorrain Granite described as massively bedded; equigranular pinkish feldspar phenocrysts:65% fine grained groundmass with platy foliated hornblende matrix 15%. The hole ended in Lorrain Granite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole B-20-01

Drill hole B-20-01 was collared at 606,660.0 E, 5,245,147.0 N and drilled with a 180 degrees azimuth and a -50 degrees dip to a final depth of 130.0 meters.

B-20-01 intersected 5.7 meters of overburden followed by Lorrain Syenite. Lorrain Syenite is a coarse grain equigranular to phaneritic forming aggregates from 1cm-2cm. The hole ended in Lorrain Syenite.

Two downhole surveys were measured from the hole. No samples were collected.

Drill Hole B-20-02

Drill hole B-20-02 was collared at 609,100.0 E, 5,239,000.0 N and drilled with a 240 degrees azimuth and a -50 degrees dip to a final depth of 62.0 meters.

B-20-02 intersected 5.4 meters of overburden followed by quartz and chlorite rich Nipissing Diabase sills. Quartz Diabase Sills are fine grained equigranular with 35% reabsorbed quartz grains. The Chloritic Diabase is fine grain hornblende/chlorite groundmass with less than 15% reabsorbed quartz. A shear zone was noted between 130.4-137.5m broken and rubbly core comprised of diabase with chlorite and serpentine on fractures. The hole ended in a chloritic diabase.

Three downhole surveys were measured from the hole. No samples were collected.

Drill Hole B-20-03

Drill hole B-20-03 was collared at 606,583.0 E, 5,244,409.0 N and drilled with a 120 degrees azimuth and a -50 degrees dip to a final depth of 81.0 meters.

B-20-03 intersected 9.7 meters of overburden comprised mostly of glacial boulders followed by quartz rich Nipissing Diabase sills. Quartz Diabase Sills are fine grained equigranular with approximately 35% reabsorbed quartz grains. A shear zone of brecciated fault gouge was noted between 45.2-47m comprised of diabase. The hole ended in diabase.

Two downhole surveys were measured from the hole. No samples were collected.

Drill Hole B-20-05

Drill hole B-20-05 was collared at 605,727.0 E, 5,245,870.0 N and drilled with a 60 degrees azimuth and a -50 degrees dip to a final depth of 157.0 meters.

B-20-05 intersected 5.5 meters of overburden comprised of glacial till along with lake bottom silts or clays followed by quartz rich Nipissing Diabase sills. Quartz Diabase Sills are fine grained equigranular with approximately 35% reabsorbed quartz grains. The hole ended in diabase.

Three downhole surveys were measured from the hole. No samples were collected.

Drill Hole GL-20-01

Drill hole GL-20-01 was collared at 608,090.0 E, 5,241,320.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 28.5 meters.

GL-20-01 intersected 2.8 meters of overburden consisting of cobbles and pebbles followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The remainder of the hole alternated between Kaolinized Syenite and Syenite. Kaolinized Syenite is fine to medium grained equigranular texture with kaolinized and epidotized alteration. The Syenite unit is massive, fine to medium grained with a weak foliation and mafic accessory minerals. The hole ended in Syenite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole GL-20-02

Drill hole GL-20-02 was collared at 608,670.0 E, 5,241,371.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 22.4 meters.

GL-20-02 intersected 4.45 meters of overburden consisting of cobbles and pebbles followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The remainder of the hole was logged as Syenite. The Syenite unit is massive, fine to medium grained with a weak foliation and mafic accessory minerals. The hole ended in Syenite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole HSM-20-01

Drill hole HSM-20-01 was collared at 608,461.0 E, 5,239,424.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 31.5 meters.

HSM-20-01 intersected 12.6 meters of overburden consisting of cobbles and pebbles followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The remainder of the hole was logged as Lorrain Granite. Lorrain Granite is massive with equigranular pinkish feldspar phenocrysts. The hole ended in Lorrain Granite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole HSM-20-02

Drill hole HSM-20-02 was collared at 608,247.0 E, 5,239,670.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 82.85 meters.

HSM-20-02 intersected 4.05 meters of overburden consisting of cobbles and pebbles followed by a heterolithic tuffisitic kimberlite matrix supported breccia with mixed angular and rounded blocks. The hole ended in heterolithic tuffisitic kimberlite.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole HSM-20-03

Drill hole HSM-20-03 was collared at 607,952.0 E, 5,239,834.0 N and drilled with a 0 degrees azimuth and a -90 degrees dip to a final depth of 25.45 meters.

HSM-20-03 intersected 4.1 meters of overburden consisting of cobbles and pebbles followed by a heterolithic volcanoclastic kimberlite matrix supported breccia with mixed angular mafic and globular carbonate clasts. The hole ended in Nipissing Diabase.

No downhole surveys were measured from the hole and no samples were collected.

Drill Hole LG-20-01

Drill hole LG-20-01 was collared at 605,715.0 E, 5,245,860.0 N and drilled with a 125 degrees azimuth and -50 degrees dip to a final depth of 75.0 meters.

LS-20-01 intersected 6 meters of overburden followed by Nipissing Diabase. The Nipissing Diabase is fine grained to medium grained, medium to dark grey in colour. The hole ended in diabase.

One downhole survey was measured from the hole and no samples were collected.

Drill Hole LG-20-02

Drill hole LG-20-02 was collared at 605,200.0 E, 5,245,380.0 N and drilled with a 325 degrees azimuth and -50 degrees dip to a final depth of 100.0 meters.

LG-20-02 intersected 8.85 meters of overburden followed by Lorrain Granite. Lorrain Granite is massively bedded, coarse grained with equigranular texture. Following the Lorrain Granite was a Nipissing Diabase unit that is fine grained to medium grained, medium to dark grey in colour. The hole ended in diabase.

One downhole survey was measured from the hole and no samples were collected.

Drill Hole LG-20-03

Drill hole LG-20-03 was collared at 606,200.0 E, 5,245,680.0 N and drilled with a 120 degrees azimuth and -50 degrees dip to a final depth of 85.0 meters.

LS-20-03 intersected 1.3 meters of overburden consisting of diabase cobbles followed by Lorrain Granite with coarse grain equigranular texture. From 55.4-55.6 meters is a hornblende granite with sharp cooling contacts and 90% fine grain hornblende. The hole ended in Lorrain Granite.

One downhole survey was measured from the hole and no samples were collected.

9.1 Drill Hole Cross-Section Fences

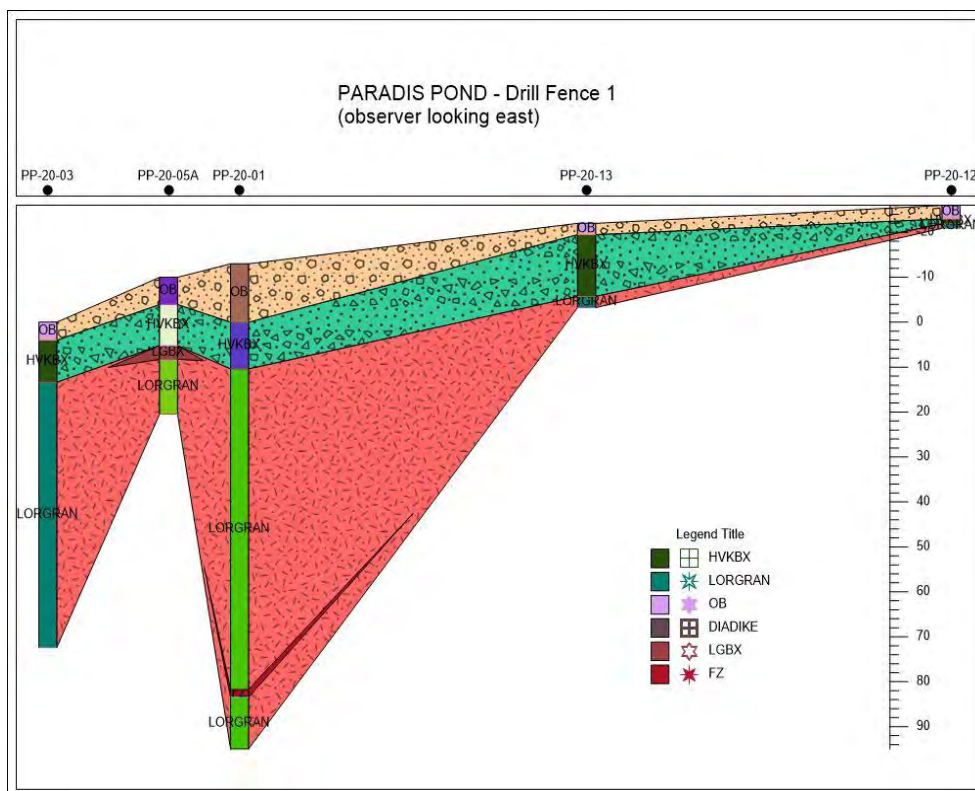


Figure 9.1: Paradis Pond Kimberlite – Drill Fence 1

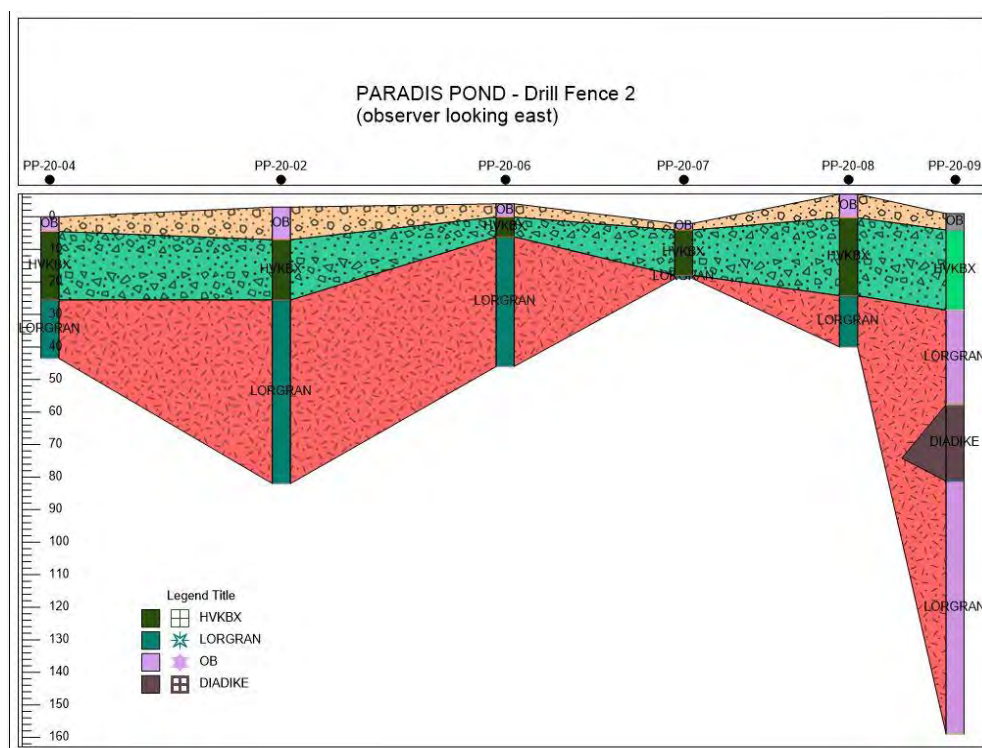


Figure 9.2: Paradis Pond Kimberlite – Drill Fence 2

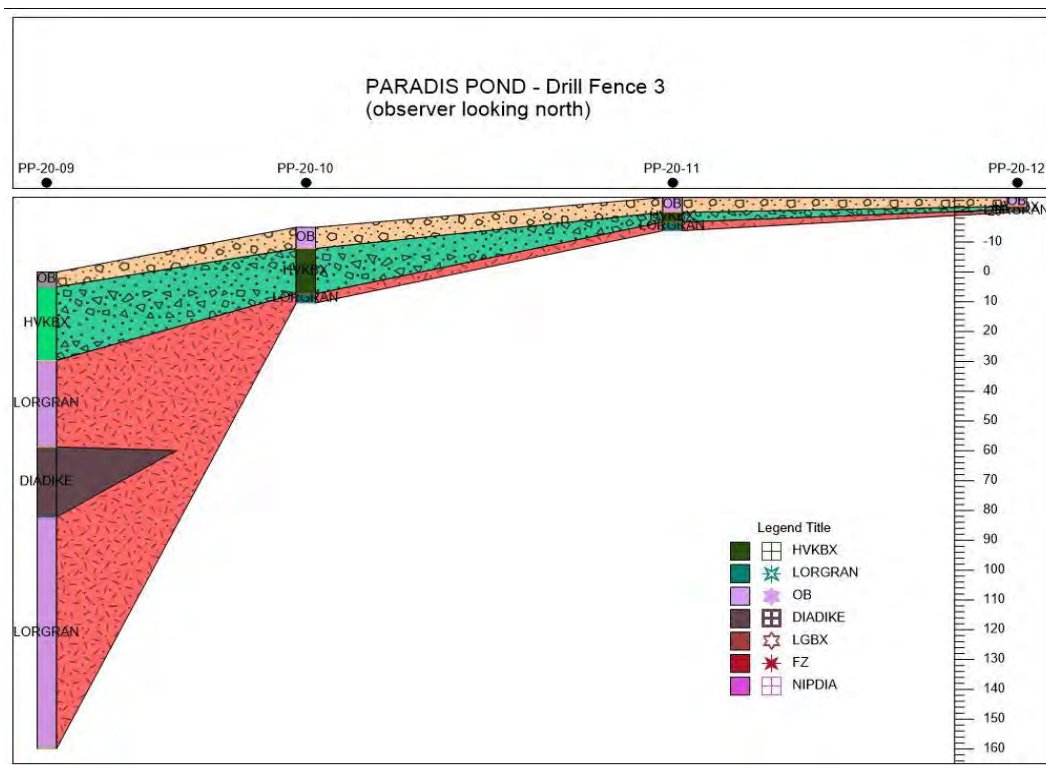


Figure 9.3: Paradis Pond Kimberlite – Drill Fence 3

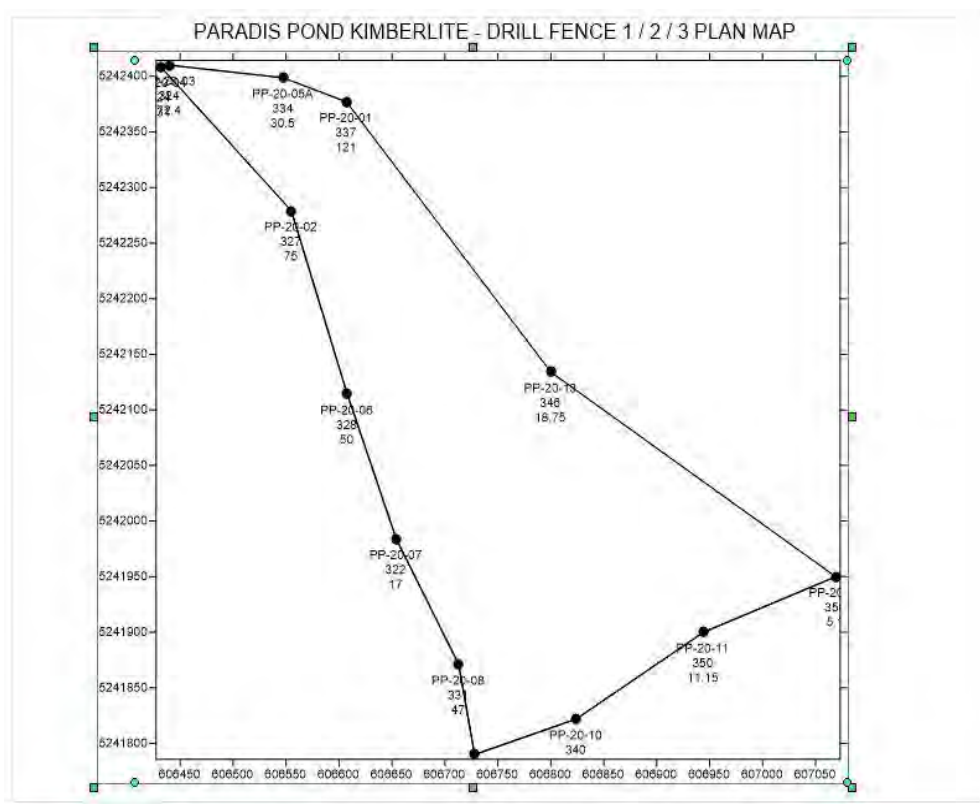


Figure 9.4: Paradis Pond Kimberlite Drill Fence 1 / 2 / 3 Plan Map

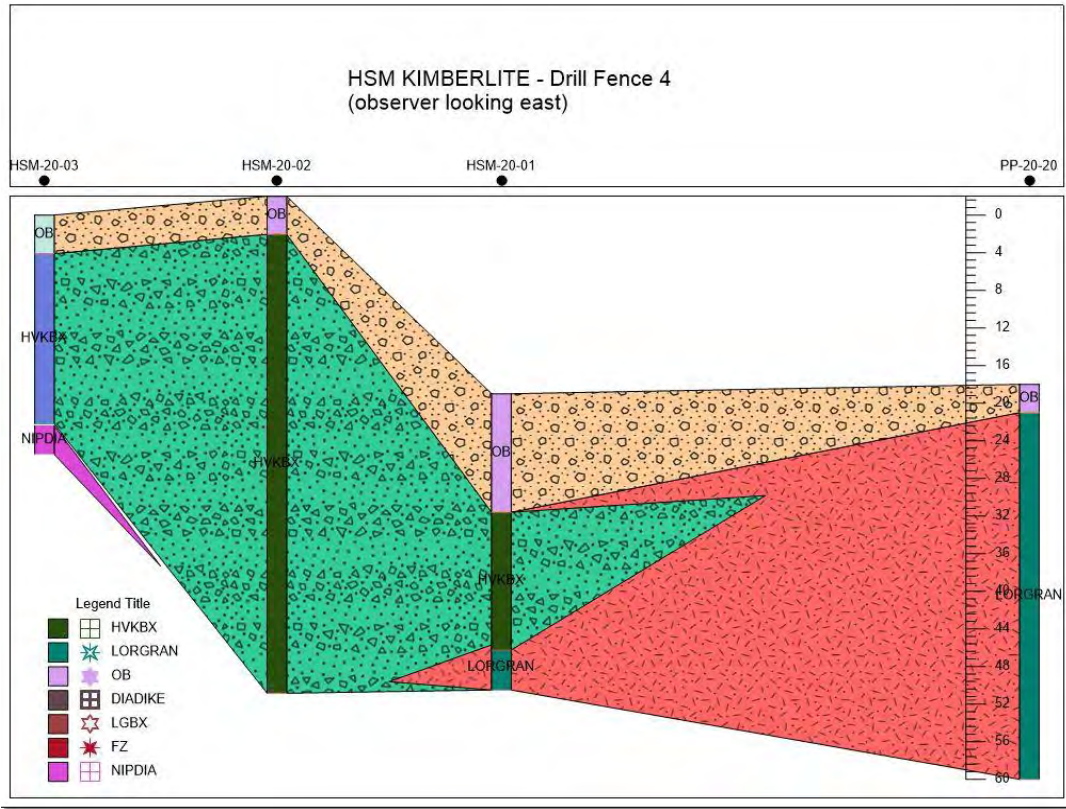


Figure 9.5: HSM Kimberlite Drill Fence 4

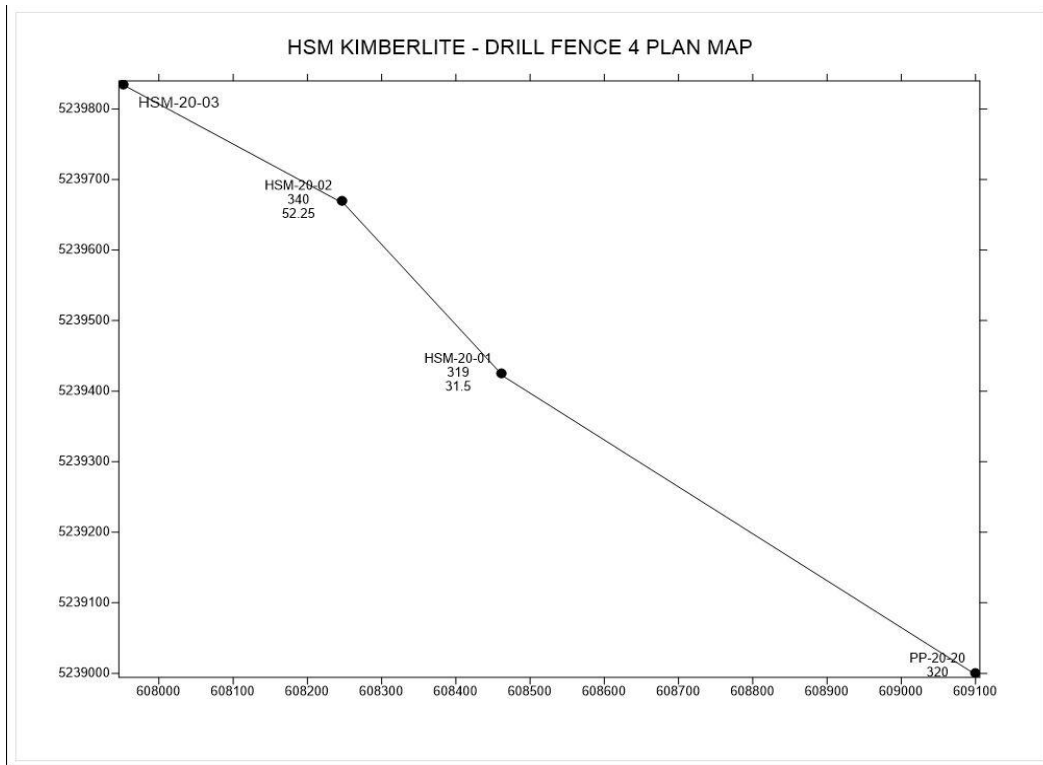


Figure 9.6: HSM Kimberlite Drill Fence 4 Plan Map

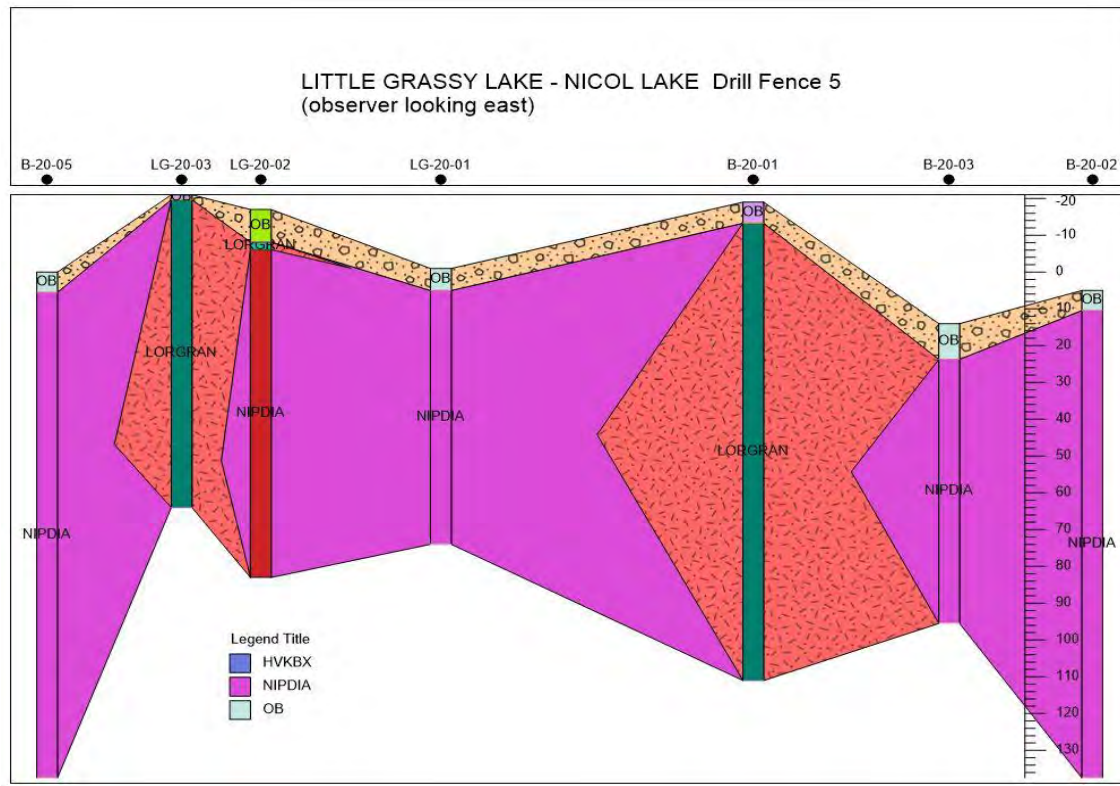


Figure 9.7: Little Grassy - Nicol Lake Drill Fence 5

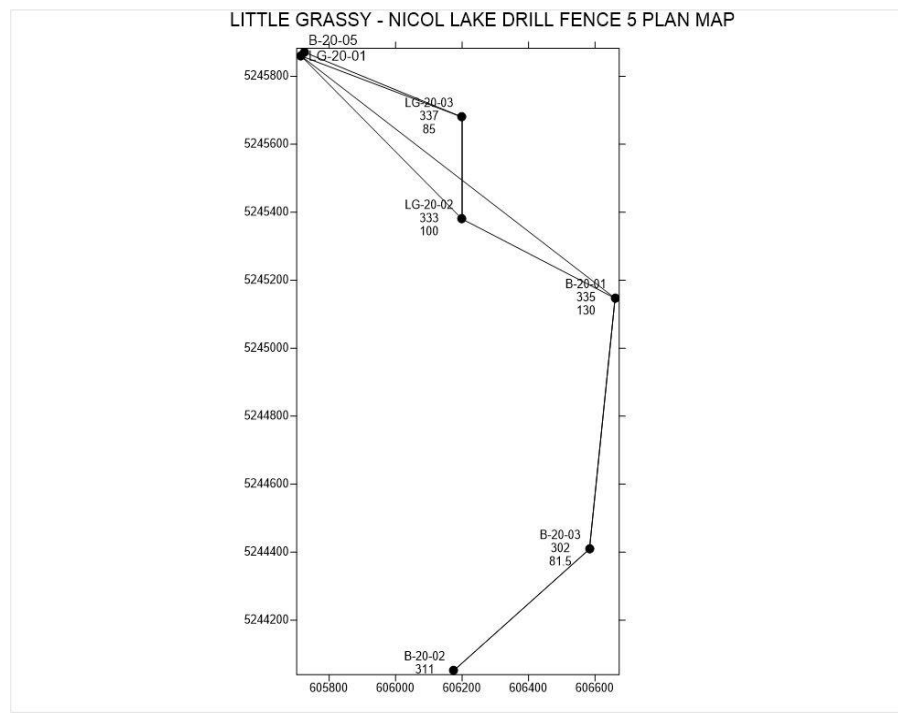


Figure 9.8: Little Grassy - Nicol Lake Drill Fence 5 Plan Map

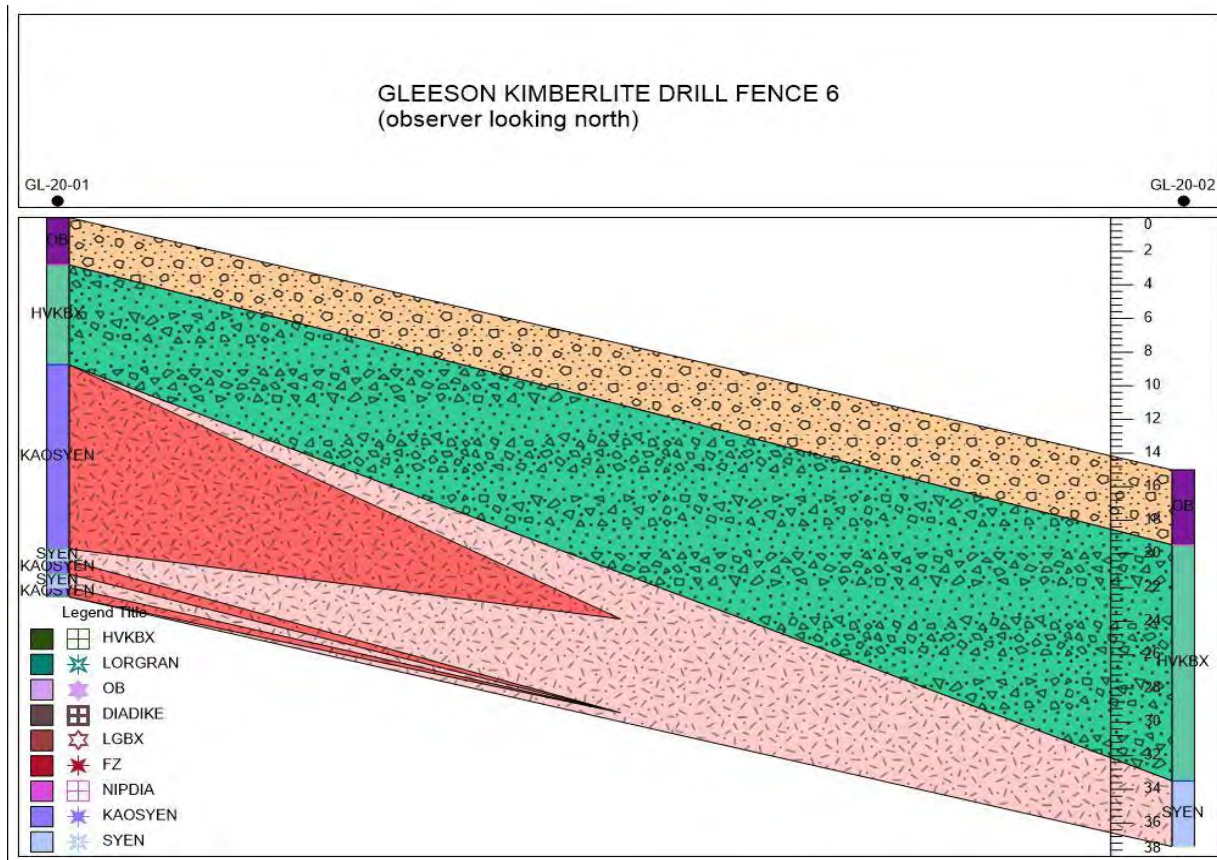


Figure 9.9: Gleeson Kimberlite - Drill Fence 6

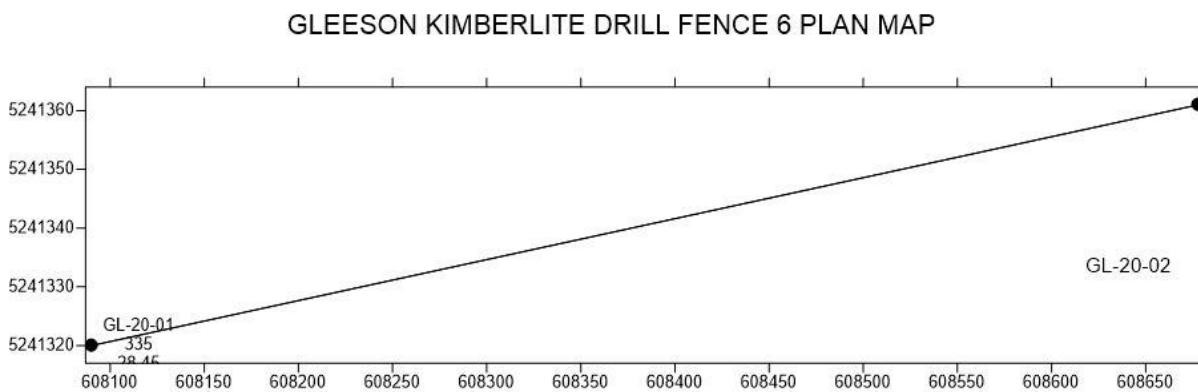


Figure 9.10: Gleeson Kimberlite - Drill Fence 6 Plan Map

10.0 Assessment Work Expenditure Allocation

Table 10.1 Assessment Work Expenditure Allocation by Hole – See Appendix D – Work Expenditure Invoices

| Hole ID | Claim | Description | Invoice Number/Identifier | Amount (CDN\$) |
|-----------|--------|------------------|---|----------------|
| B-20-01 | 247076 | Drilling | Huard Mar 15, 2020, 93142,92543,92681 | \$ 13,646.10 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | T. Bishop; P. Hubacheck; T. Link | \$ 3,728.96 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| B-20-02 | 276783 | Drilling | Huard Mar 15 & 28, 2020, 93142,92543,92681 | \$ 19,637.10 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | T. Bishop; P. Hubacheck; T. Link | \$ 3,728.96 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| B-20-03 | 199542 | Drilling | Huard Mar 28, 2020, 93142,92543,92681 | \$ 10,078.44 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | T. Bishop; P. Hubacheck; T. Link | \$ 3,728.96 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| B-20-05 | 277042 | Drilling | Huard Mar 28, 2020, 93142,92543,92681 | \$ 14,383.44 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | T. Bishop; P. Hubacheck; T. Link | \$ 3,728.96 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| GL-20-01 | 210724 | Drilling | Huard Drilling Dec 1-15, 2020 | \$ 3,611.40 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | A. Kon | \$ 1,295.12 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| GL-20-02 | 569259 | Drilling | Huard Drilling Dec 1-15, 2020 | \$ 3,227.10 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | A. Kon | \$ 1,295.12 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| HSM-20-01 | 331574 | Drilling | Huard Drilling Nov 16-30, 2020 | \$ 5,255.50 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | A. Kon; T. Link | \$ 1,558.76 |
| | | Assay Cost | | \$ - |

| | | | | |
|-----------|-------------------|------------------|--|--------------|
| | | Reporting | 21-204 | \$ 59.26 |
| HSM-20-02 | 203195 | Drilling | Huard Drilling Nov 16-30, 2020 | \$ 6,600.55 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | A. Kon; T. Link | \$ 1,558.76 |
| | | Reporting | 21-204 | \$ 59.26 |
| | | Assay Cost | | \$ - |
| HSM-20-03 | 138563 | Drilling | Huard Drilling Dec 1-15, 2020 | \$ 3,998.85 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | A. Kon | \$ 1,295.12 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| LG-20-01 | 131127 | Drilling | Huard Drilling Jun 27-Jul15, 2020 | \$ 6,532.33 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 3,268.45 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| LG-20-02 | 329881 | Drilling | Huard Drilling Jun 27-Jul15, 2020 | \$ 11,721.28 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | K. Charlton; P. Hubacheck; A. Kon; T. Link | \$ 4,033.45 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| LG-20-03 | 329881/ 247076 | Drilling | Huard Drilling Jun 27-Jul15, 2020, Jul 16-31, 2021 | \$ 10,411.83 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 4,768.45 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-01 | 175091 | Drilling | Huard Drilling Jul 16-31, 2021 | \$ 11,165.00 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | K. Charlton; P. Hubacheck; A. Kon; T. Link | \$ 3,057.45 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-02 | 175091 | Drilling | Huard Drilling Jul 16-31, 2021 | \$ 8,289.50 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | K. Charlton; P. Hubacheck; A. Kon; T. Link | \$ 2,870.45 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-03 | 175091 | Drilling | Huard Drilling Aug 1-15, 2020 | \$ 7,541.00 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | K. Charlton; P. Hubacheck; A. Kon; T. Link | \$ 2,397.04 |
| | | Assay Cost | CFM 9205900 | \$ 6,475.16 |

| | | | | |
|-----------|-------------------|------------------|--|--------------|
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-04 | 175091 | Drilling | Huard Drilling Aug 1-15, 2020, Aug 16-31, 2020 | \$ 20,963.33 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | K. Charlton; P. Hubacheck; A. Kon; T. Link | \$ 2,465.04 |
| | | Assay Cost | Invoice 593767 CFM 9205900 | \$ 7,096.36 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-05A | 175091 | Drilling | Huard Drilling Aug 16-31, 2020 | \$ 7,117.74 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 3,274.16 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-06 | 155684 | Drilling | Huard Drilling Aug 16-31, 2020 | \$ 6,554.88 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,329.04 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-07 | 155684 | Drilling | Huard Drilling Sept 1-15, 2020 | \$ 4,146.75 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,329.04 |
| | | Assay Cost | Microlithic 21-DMS-RJK-PP-RC | \$ 7,560.00 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-08 | 155684 | Drilling | Huard Drilling Sept 1-15, 2020, Sept 16-30, 2020 | \$ 14,376.00 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 3,529.04 |
| | | Assay Cost | Invoice 593767 CFM 9205900 | \$ 7,167.71 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-09 | 155684/ 239443 | Drilling | Huard Drilling Sept 16-30, 2020 | \$ 12,984.00 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,408.76 |
| | | Assay Cost | CFM 9205900 | \$ 6,475.16 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-10 | 126017 | Drilling | Huard Drilling Sept 16-30, 2020 | \$ 4,424.20 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,408.76 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-11 | 126017 | Drilling | Huard Drilling Sept 16-30, 2020 | \$ 5,862.28 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,408.76 |
| | | Assay Cost | | \$ - |

| | | | | |
|----------|--------|------------------|-----------------------------------|----------------------|
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-12 | 126017 | Drilling | | \$ 4,340.40 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 1,875.42 |
| | | Assay Cost | Microlithic 21-DMS-RJK-PP-RC | \$ 6,230.00 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-13 | 126017 | Drilling | | \$ 3,813.23 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 2,408.76 |
| | | Assay Cost | Microlithic 21-DMS-RJK-PP-RC | \$ 8,145.00 |
| | | Reporting | 21-204 | \$ 59.26 |
| PP-20-20 | 567969 | Drilling | Huard Drilling Dec 1-15, 2020 | \$ 6,301.50 |
| | | Logging Facility | Utilities, Couriers, Core Cutting | \$ 202.50 |
| | | Consultants | P. Hubacheck; A. Kon; T. Link | \$ 1,558.76 |
| | | Assay Cost | | \$ - |
| | | Reporting | 21-204 | \$ 59.26 |
| | | | | |
| | | Total | (Before Taxes) | \$ 352,248.56 |
| | | | | |
| | | HST 13% | | \$ 45,792.31 |

Note: Some expenditures have been pro-rated per hole, for example monthly rental costs, etc.

Table 10.2 Assessment Work Expenditure Allocation by Claim – See Appendix D

| Claim ID | Amount (CDN\$) (Before Tax) | HST 13% | Total (Taxes Incl.) |
|--------------|-----------------------------|---------------------|----------------------|
| 126017 | \$ 42,963.87 | \$ 5,585.30 | \$ 48,549.17 |
| 131127 | \$ 10,062.55 | \$ 1,308.13 | \$ 11,370.68 |
| 138563 | \$ 5,555.74 | \$ 722.25 | \$ 6,277.98 |
| 155684 | \$ 59,842.60 | \$ 7,779.54 | \$ 67,622.13 |
| 175091 | \$ 84,021.07 | \$ 10,922.74 | \$ 94,943.81 |
| 199542 | \$ 14,069.16 | \$ 1,828.99 | \$ 15,898.15 |
| 203195 | \$ 8,421.07 | \$ 1,094.74 | \$ 9,515.81 |
| 210724 | \$ 5,168.29 | \$ 671.88 | \$ 5,840.16 |
| 239443 | \$ 11,064.84 | \$ 1,438.43 | \$ 12,503.27 |
| 247076 | \$ 25,357.84 | \$ 3,296.52 | \$ 28,654.36 |
| 276783 | \$ 23,627.82 | \$ 3,071.62 | \$ 26,699.43 |
| 277042 | \$ 18,374.16 | \$ 2,388.64 | \$ 20,762.80 |
| 329881 | \$ 23,737.53 | \$ 3,085.88 | \$ 26,823.41 |
| 331574 | \$ 7,076.02 | \$ 919.88 | \$ 7,995.90 |
| 567969 | \$ 8,122.02 | \$ 1,055.86 | \$ 9,177.88 |
| 569259 | \$ 4,783.99 | \$ 621.92 | \$ 5,405.90 |
| Total | \$ 352,248.56 | \$ 45,792.31 | \$ 398,040.87 |

11.0 Conclusions

Descriptive Features

- 4 kimberlite bodies have been discovered in Lorrain Twp. In 2020, all spatially aligned with the NW/SE trending Cross Lake Fault and intersecting W/E cross-fault structures.
- The dimensions of the larger kimberlite bodies range in length from 1200m to 2000m and in width from 400m to 700m. The average thicknesses of the bodies are Paradis: 11m; Gleeson: 14m; Robin's Place: 39m; HSM: 32m;
- The average elevations of the basement bedrock interface before kimberlite deposition are Paradis Beaver Dam: 331m; Gleeson: 308m; Nicol Lake: 305m; HSM: 298m; Robin's Place: 278m;
- All 4 kimberlite bodies exhibit similar textures observed in drill core and consistent kimberlite emplacement geometry above the bedrock, but below the shallow overburden, suggesting one eruptive event.
- The major lithologic constituents of the kimberlite consist of 50% to 60% olivene, 25% to 30% peridotitic ash, 5% to 10% mantle nodules and xenocrysts and 5% country rock autoliths. Mantle xenocrysts are predominantly rhombohedral carbonate and ilmenite, chromite micro/macrocrysts. Magnetic susceptibility measurements in all kimberlite bodies range from -5 to 1 characterizing a consistent distribution of ilmenite clasts. Country rock autoliths are all locally derived consisting of Lorrain Granite, Lorrain Fm. Quartzite and a magnetic-rich gabbroic dyke based on bedrock mapping geology proximal to the Cross Lake Fault.
- The geothermometry of the constituent chromite grains show temperatures ranging from 900 °C to 1300 °C. These temperatures support the temperature-pressure solid solution phase diagrams for forsterite/monticellite along a solidus line at temperature of 1300 °C and pressure of ~9000 KBars. The parental kimberlite magma possibly originates from the upper mantle to the lower mantle transition zone between depths of 200km and 410km.
- All kimberlite bodies are unconsolidated and deposited unconformably on Archean and Proterozoic Age basement rocks. The upper contact of the kimberlite bodies is unconformably overlain by glaciofluvial outwash. The lower contact of the kimberlite bodies is sharp with no detritus or regolith developed at this contact.
- The unique constituent mineralogy of the unconsolidated volcanoclastic deposits is not reactive with the overlying glaciofluvial sediments due to the impermeable clay ash content, however, limonitic alteration has been observed within 1m - 2m above the basal contact with Lorrain granites.

12.0 Recommendations

A comprehensive reverse circulation program has been recommended to determine the geometry of the known kimberlite discoveries: Paradis Pond, Robin's Place, Gleeson and HSM.

RC drilling is also planned to test several EM conductance features aligned along the Cross Lake Fault structure.

A bulk sampling program is planned for diamond recovery and kimberlite indicator minerals using the RC drilling cuttings.

13.0 Certificates of Qualification

STATEMENT OF QUALIFICATIONS – ROCHELLE COLLINS

I, Rochelle Collins, of the City of Timmins, Province of Ontario, do hereby certify that:

I am a registered professional Geologist, residing at 287 Lois Crescent, Timmins Ontario, P4P 1G6, and a member in good standing with the Professional Geoscientists of Ontario (#1412).

I have been working continuously in the field of geology for over 20 years in Canada and Mexico.

I hold a B.Sc. Honours degree in Geology and Geography (1997) from McMaster University of Hamilton, Ontario and an EMBA from Queen's University of Kingston, Ontario (2020).

This report is based on my observations and interpretation of the geological and geophysical data as reviewed for this report. I have no personal interest in the property covered by this report.



Rochelle Collins, P. Geo., B.Sc., EMBA

Dated at Timmins, Ontario

This December 17, 2021.



STATEMENT OF QUALIFICATIONS – PETER HUBACHECK

I, Peter Hubacheck residing at 132 Moore St., Lion's Head, hereby certify that:

I hold a Mining Technologist (1974) diploma from the Haileybury School of Mines and Technology, Haileybury, Ontario and a B.A.Sc. (Geol. Eng. 1977) degree from the South Dakota School of Mines and Technology, Rapid City, South Dakota.

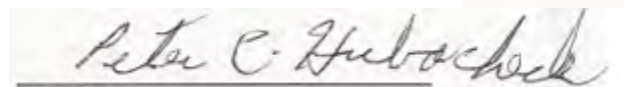
I have over 40 years of experience as a project geologist, exploration manager and Qualified Person for the purposes of NI 43-101, with experience in the exploration for gold, silver, base metals, uranium and diamonds in Canada and the USA.

I am a consulting geologist and President of W. A. Hubacheck Consultants Ltd. In January 2020, I joined RJK Explorations Ltd. as project manager and principal geologist on their Nipissing Diamond Project leading an exploration team in discovering 8 kimberlite deposits in the Historic Cobalt mining Camp.

I am a practicing member in good standing with the Association of Professional Geoscientists of Ontario (Member Number 1059).

Statements within this report are based on my personal observations made under direct supervision of the diamond drilling program and I have no interest either direct or indirect pertaining to the properties included in this report, nor do I expect any.

Dated this December 17, 2021



Peter Hubacheck



14.0 End Notes/References

Endnotes

- ⁱ Kon, A. 2019. Assessment Work Report on the Hound Chute Claims, Gillies Township, Larder Lake Mining Division
- ⁱⁱ Potter, E., and Rees, K., 2008: Temex Resources Corp., Report on the 2008 Diamond Drilling Program, Latchford Diamond Project.
- ⁱⁱⁱ Sage, R.P. 2000. Kimberlites of the Lake Timiskaming structural zone: supplement; Ontario Geological Survey, Open File Report 6018, 123p.
- ^{iv} Kon, A. 2012. Assessment Work Report on Claims 1140510 and 3007492 Gillies Township, Larder Lake Mining Division
- ^v Sage, R.P. 1996. Kimberlites of the Lake Timiskaming Structural Zone; Ontario Geological Survey, Open File Report 5937, 435p.

References

- Kon, A. 2019. Assessment Work Report On The Hound Chute Claims.
- Kon, A. 2015. Assessment Work Report Magnetometer Survey On The Hound Chute Road Claims (Phase 2).
- Kon, A. 2014. Assessment Report On The Hound Chutes Rd Kon Kimberlite Dike.
- Kon, A. 2014. Till Sampling and Prospecting Report On The Hound Chutes Road Claims
- Kon, A. 2012. Assessment Work Report On Claims 1140510 and 3007492 Gillies Township, Larder Lake Mining Division.
- Combined Helicopterborne Magnetic and Electromagnetic Survey of the Cobalt Area, Northern Ontario. High Sense Geophysics Limited., March 2019
- Crabtree, D., Minerology Report – Identification and Classification of Kimberlite: Geoscience Laboratories
- Ploeger, J., 2011. Magnetometer and VLF EM Surveys Over the Hound Chute Property Gillies Limit Township, Ontario.
- Burton, D., 1971. Report on the VLF and the Magnetic Geophysical surveys on the property of Lobo Mines and Exploration Limited in Blocks 58 and 59, and 67 and 68 Gillies Limit Township, Ontario.
- MERC Cobalt Seismic Transect-Field work 2019

Appendix A: Property History

| PROPERTY HISTORY | | | BISHOP NIPISSING DIAMOND PROJECT | | |
|-------------------------|----------------|-------------|---|--------------------|---------------|
| As at December 20, 2021 | | | | | |
| Claim # | Legacy Claim # | Date | Description | Performed Assigned | Transaction # |
| 126017 | 4273040 | 2014-OCT-03 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | \$11,524 | R1480.01844 |
| | | 2016-OCT-24 | WORK PERFORMED ASSAY, BENEF, PROSP, APPROVED: 2016-NOV-29 | | Q1680.01763 |
| | 4282142 | 2016-JUN-06 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01121 |
| | | 2018-SEP-16 | \$10224 Work Performed (Grass Roots Prospecting, Beneficiation, Microscopy, Assays) Approved: 2018-09-17 | \$10,224 | 360994 |
| | | 2018-SEP-26 | \$1522 Work Performed (Beneficiation, Assays) Approved: 2018-09-27 | \$1,522 | 390891 |
| | | 2019-JAN-24 | Exploration Permit No. PR-18-000247 Effective from 2019/01/24 to 2022/01/24 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 398829 |
| | | 2020-APR-16 | \$2562 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$2,562 | 967309 |
| | | 2020-SEP-16 | Exploration Permit No. PR-20-000297 Effective from 2020/11/25 to 2023/11/24 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1064385 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155036 |
| | | 2021-MAY-31 | \$1242 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$1,242 | 1201110 |
| 131127 | 4282444 | 2016-OCT-24 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.02189 |
| | 4282705 | 2016-NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | 4282707 | 2016-NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | | 2018-APR-09 | Converted from legacy claim(s) 4282444, 4282705, 4282707 | | 67891 |
| | | 2018-SEP-16 | \$3124 Work Performed (Grass Roots Prospecting, Beneficiation, Microscopy, | \$3,124 | 365449 |

| | | | | | |
|--------|---------|-------------|--|----------|-------------|
| | | | Electron Microprobe Study) Approved: 2018-09-17 | | |
| | | 2018-SEP-25 | \$516 Work Performed (Beneficiation, Assays) Approved: 2018-09-26 | \$516 | 390886 |
| | | 2019-JUN-06 | Exploration Permit No. PR-19-000070 Effective from 2019/06/07 to 2022/06/07 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571707 |
| | | 2020-APR-16 | \$1491 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | | 967309 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155034 |
| | | 2021-MAY-31 | \$973 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | | 1201110 |
| 138563 | 4282401 | 2017-JUL-05 | RECORDED BY HARRINGTON, PATRICK MICHAEL JR. (K23069) | | R1780.01774 |
| | | 2018-APR-10 | Converted to cell claim(s) | | MAM00.30480 |
| | | 2019-APR-03 | Exploration Permit No. PR-19-000071 Effective from 2019/05/27 to 2022/05/27 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571806 |
| | | 2019-JUL-03 | \$480 Work Performed (Airborne Magnetics) Approved: 2019-09-05 | \$480 | 684730 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155035 |
| 155684 | 4273040 | 2014-OCT-03 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | \$11,524 | R1480.01844 |
| | | 2016-OCT-24 | WORK PERFORMED ASSAY, BENEF, PROSP, APPROVED: 2016-NOV-29 | | Q1680.01763 |
| | 4282142 | 2016-JUN-06 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01121 |
| | 4282410 | 2016-OCT-21 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01839 |
| | | 2018-APR-09 | Converted from legacy claim(s) 4273040, 4282142, 4282410 | | 45448 |
| | | 2018-SEP-16 | \$1000 Work Performed (Grass Roots Prospecting, Beneficiation, Microscopy, Assays) Approved: 2018-09-17 | \$1,000 | 360994 |
| | | 2018-SEP-26 | \$285 Work Performed (Beneficiation, Assays) Approved: 2018-09-27 | \$285 | 390891 |
| | | 2019-JAN-24 | Exploration Permit No. PR-18-000247 Effective from 2019/01/24 to 2022/01/24 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 398829 |

| | | | | | |
|--------|---------|--------------|---|----------|-------------|
| | | 2020-APR-16 | \$912 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$912 | 967309 |
| | | 2020-SEP -16 | Exploration Permit No. PR-20-000297 Effective from 2020/11/25 to 2023/11/24 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1064385 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155036 |
| | | 2021-MAY-31 | \$458 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$458 | 1201110 |
| 175091 | 4273040 | 2014-OCT-03 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | \$11,524 | R1480.01844 |
| | | 2016-OCT-24 | WORK PERFORMED ASSAY, BENEF, PROSP, APPROVED: 2016-NOV-29 | | Q1680.01763 |
| | 4282187 | 2016-OCT-21 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01839 |
| | | 2017-DEC-01 | APPROVED: 2017-DEC-18 WORK PERFORMED BENEF, MICRO, PROSP | \$4,627 | Q1780.02154 |
| | 4282410 | 2016-OCT-21 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01839 |
| | | 2018-APR -09 | Converted from legacy claim(s) 4273040, 4282187, 4282410 | | 95405 |
| | | 2019-JAN-24 | Exploration Permit No. PR-18-000247 Effective from 2019/01/24 to 2022/01/24 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 398829 |
| | | 2020-APR -16 | \$492 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | | 967309 |
| | | 2020-SEP -16 | Exploration Permit No. PR-20-000297 Effective from 2020/11/25 to 2023/11/24 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1064385 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155036 |
| | | 2021-MAY-31 | \$365 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$365 | 1201110 |

| | | | | | |
|--------|---------|--------------|---|----------|-------------|
| 199542 | 4282409 | 2016-OCT-21 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01839 |
| | | 2017-DEC-01 | APPROVED: 2017-DEC-18 WORK PERFORMEDBENEF, MICRO, PROSP | \$4,627 | Q1780.02154 |
| | 4286187 | 2015-NOV-12 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1580.01779 |
| | | 2017-NOV-02 | WORK PERFORMEDBENEF, MICRO, PROSP APPROVED: 2017-DEC-04 | \$17,231 | Q1780.02043 |
| | | 2018-APR -09 | Converted from legacy claim(s) 4281431, 4282409, 4286187 | | 101996 |
| | | 2019-JUN -06 | Exploration Permit No. PR-19-000070 Effective from 2019/06/07 to 2022/06/07 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571707 |
| | | 2020-APR -16 | \$1031 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$1,031 | 967309 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155036 |
| | | 2021-MAY-31 | \$1829 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | | 1201110 |
| 203195 | 4282401 | 2017-JUL-05 | RECORDED BY HARRINGTON, PATRICK MICHAEL JR. (K23069) | | R1780.01774 |
| | | 2018-APR-10 | Converted to cell claim(s) | | MAM00.30480 |
| | | 2019-APR-03 | Exploration Permit No. PR-19-000071 Effective from 2019/05/27 to 2022/05/27 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571806 |
| | | 2019-SEP-04 | \$675 Work Performed (Airborne Magnetics) Approved: 2019-09-05 | \$675 | 684730 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155035 |
| | | 2021-MAY-31 | \$636 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$636 | 1201110 |
| 210724 | 4282401 | 2017-JUL-05 | RECORDED BY HARRINGTON, PATRICK MICHAEL JR. (K23069) | | R1780.01774 |
| | | 2018-APR-10 | Converted to cell claim(s) | | MAM00.30480 |
| | | 2019-APR-03 | Exploration Permit No. PR-19-000071 Effective from 2019/05/27 to 2022/05/27 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 5718006 |

| | | | | | |
|--------|---------|-------------|---|----------|-------------|
| | | 2020-SEP-10 | Exploration Permit No. PR-20-000292 Effective from 2020/11/11 to 2023/11/10 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1062217 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155035 |
| | | 2021-MAY-31 | \$753 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$753 | 1201110 |
| 239443 | | 2016-JUN-06 | RECORDED BY BARRETTE, MICHAEL JOSEPH (1007272) | | R1680.01120 |
| | | 2018-APR-10 | Converted to cell claim(s) 126017 and boundary claim(s) 105615, 151798, 155684, 239443, 293947. | | MAM00.17242 |
| | | 2020-SEP-16 | Exploration Permit No. PR-20-000297 Effective from 2020/11/25 to 2023/11/24 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1064385 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155036 |
| 247076 | 4282707 | 2016-NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | 4286186 | 2016-OCT-04 | VON CARDINAL, THOMAS (205724) RECORDS 100.0 % IN THE NAME OF CHITARONI, GINO PAUL (117874) | | R1680.01663 |
| | | 2016-DEC-01 | CHITARONI, GINO PAUL (117874) TRANSFERS 100.0 % TO COBALT POWER GROUP INC. (412467) | | T1680.00353 |
| | 4286187 | 2015-NOV-12 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1580.01779 |
| | | 2017-NOV-02 | WORK PERFORMED BENEF, MICRO, PROSP APPROVED: 2017-DEC-04 | \$17,231 | Q1780.02043 |
| | | 2018-APR-09 | Converted from legacy claim(s) 4282707, 4286186, 4286187 | | 175380 |
| | | 2019-JUN-06 | Exploration Permit No. PR-19-000070 Effective from 2019/06/07 to 2022/06/07 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571707 |

| | | | | | |
|--------|---------|------------------|---|---------|-------------|
| | | 2020- APR -16 | \$1091 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$1,091 | 967309 |
| | | 2021- MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155034 |
| | | 2021- MAY-31 | \$1450 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$1,450 | 1201110 |
| 276783 | | 2017- MAR-10 | RECORDED BY EDE, BRONSON JEFFERY (1011491) | | R1780.00762 |
| | | 2018- APR-10 | Converted to cell claim(s) | | MAM00.29145 |
| | | 2018- MAY-07 | JONATHAN CAMILLERI (411562) Transfers 100% to METEORIC RESOURCES SUB INC. (413563) | | 348301 |
| | | 2019- APR-24 | METEORIC RESOURCES SUB INC. (413563) Transfers 100% to JONATHAN CAMILLERI (411562) | | 302725 |
| | | 2020- AUG-09 | Exploration Permit No. PR-20-000251 Effective from 2020/10/02 to 2023/10/01 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 1035737 |
| | | 2020- DEC-02 | Exploration Permit No. PR-20-000348 Effective from 2021/02/09 to 2024/02/08 for the Following Activities: (Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1093432 |
| | | 2021- FEB-25 | JONATHAN CAMILLERI (411562) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1144909 |
| 277042 | 4282444 | 2016- OCT-24 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.02189 |
| | 4282706 | 2016- NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | 4282707 | 2016- NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | | 2018- APR -09 | Converted from legacy claim(s) 4282444, 4282706, 4282707 | | 205346 |
| | | 2018- SEP -16 | \$2664 Work Performed (Grass Roots Prospecting, Beneficiation, Microscopy, Electron Microprobe Study) Approved: 2018-09-17 | \$2,664 | 365449 |

| | | | | | |
|--------|---------|--------------|--|----------|-------------|
| | | 2018-SEP -25 | \$684 Work Performed (Beneficiation, Assays) Approved: 2018-09-26 | \$684 | 390886 |
| | | 2019-JUN -06 | Exploration Permit No. PR-19-000070 Effective from 2019/06/07 to 2022/06/07 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571707 |
| | | 2020-APR -16 | \$1777 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$1,777 | 967309 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155034 |
| | | 2021-MAY-31 | \$3069 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$3,069 | 1280186 |
| 329881 | 4282707 | 2016-NOV-14 | HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1680.01999 |
| | 4286187 | 2015-NOV-12 | BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621) | | R1580.01779 |
| | | 2017-NOV-02 | WORK PERFORMEDBENEF, MICRO, PROSP APPROVED: 2017-DEC-04 | \$17,231 | Q1780.02043 |
| | | 2018-APR -09 | Converted from legacy claim(s) 4282707, 4286187 | | 239385 |
| | | 2018-SEP -16 | \$14199 Work Performed (Grass Roots Prospecting, Beneficiation, Microscopy, Electron Microprobe Study) Approved: 2018-09-17 | \$14,199 | 365449 |
| | | 2018-SEP-25 | \$1959 Work Performed (Beneficiation, Assays) Approved: 2018-09-26 | \$1,959 | 390886 |
| | | 2019-JUN -06 | Exploration Permit No. PR-19-000070 Effective from 2019/06/07 to 2022/06/07 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571707 |
| | | 2020-APR -16 | \$550 Work Performed (Airborne Magnetics) Approved: 2020-07-10 | \$550 | 967309 |
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155034 |
| | | 2021-MAY-31 | \$1118 Work Performed (Overburden Heavy Mineral Processing) Approved: 2021-07-15 | \$1,118 | 1201110 |
| 331574 | | 2017-JUL-05 | RECORDED BY HARRINGTON, PATRICK MICHAEL JR. (K23069) | | R1780.01774 |
| | | 2019-APR-03 | Exploration Permit No. PR-19-000071 Effective from 2019/05/27 to 2022/05/27 for the Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS)) | | 571806 |
| | | 2019-JUL-03 | \$300 Work Performed (Airborne Magnetics) Approved: 2019-09-05 | \$300 | 684730 |

| | | | | | |
|--------|--|-------------|---|--|---------|
| | | 2021-MAR-14 | BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 1155035 |
| 567969 | | 2020-JAN-01 | Registered By DH EXPLORATION INC. (10001266) | | 878860 |
| | | 2020-JAN-16 | DH EXPLORATION INC. (10001266) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 893677 |
| 569259 | | 2020-JAN-13 | Registered By C Bishop (10002609) | | 891264 |
| | | 2020-JAN-16 | C Bishop (10002609) Transfers 100% to RJK EXPLORATIONS LTD. (187972) | | 893674 |
| | | 2020-SEP-10 | Exploration Permit No. PR-20-000293 Effective from 2020/11/11 to 2023/11/10 for the Following Activities: (Geophysical Survey Requiring Generator Type, Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Mechanized Stripping (>100m2 in 200 metre radius), Pitting and Trenching of Bedrock (>3m3 in 200 metre radius), Trails (TS)) | | 1062242 |

Appendix B: Drill Hole Logs

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **B-20-01**
AZM: **180**
DIP: **-50**
EOH: **130**

UTM NAD 83 ZONE 17
NORTHING **5,245,147.0**
EASTING **606,660.0**
ELEVATION **338.0**

DRILL COMPANY: **Huard Drilling**
START DATE: **March 6, 2020**
END DATE: **March 13, 2020**
CORE SIZE: **BQ**

TWP: **Lorrain**
CLAIM: **247076**
CASING **casing left in hole**
LOGGED BY: **Peter Hubacheck**

MAKING WATER: **N**
CORE LOCATION: **Kenogami Lake Core Facility**

LOGGING COMPLETED: **March 14, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-----|-----------------|------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 5.7 | OVERBURDEN | OB | Overburden | | | | | | |
| 5.7 | 73 | LORRAIN SYENITE | SYEN | LORRAIN SYENITE: cg equigranular to phaneritic textures with feldspar phenocrysts forming aggregates varying from 1cm to 2 cm, 65% of groundmass; pyroxene minerals are typically ,5cm in size: 35% of groundmass | | | | | | PK/BK |
| 73 | 82 | LORRAIN SYENITE | SYEN | LORRAIN SYENITE: cg equigranular to phaneritic textures with feldspar phenocrysts forming aggregates varying from 1cm to 2 cm, 85% of groundmass; pyroxene minerals are typically ,5cm in size: 15% of groundmass; core has bleached colouration on dry surface | | | | | | PK/BK |
| 82 | 130 | LORRAIN SYENITE | SYEN | LORRAIN SYENITE: cg phaneritic to porphyritic textures with feldspar phenocrysts forming aggregates varying from 1cm to 2 cm, 65% of groundmass; pyroxene minerals are typically ,5cm in size: 45% of groundmass[occasional chloritic fracture slips @ 30 TCA 94.4m cemented fault gouge 122.5m chloritic fracture slip | | | | | | PK/BK |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|---------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| B-20-01 | 52 | 192.7 | 11 | 181.7 | -44.2 | REFLEX | 5523 |
| B-20-01 | 130 | 194.5 | 11 | 183.5 | -39.8 | REFLEX | 5537 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **B-20-02** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **340** NORTHING **5,244,052.0** START DATE: **March 14, 2020** CLAIM: **276783** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **606,175.0** END DATE: **March 17, 2020** CASING **Unknown**
 EOH: **158.5m** ELEVATION **313.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **March 18, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR | AVG MS |
|-------|-------|----------------------------------|---------|--|-------------|------------|---------|-------------|-------------|--------|------------|
| 0 | 5.4 | OVERBURDEN | OB | OB: GLACIAL BOULDER ABLATION TILL | | | | | | | |
| 5.4 | 71 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: fg equigranular groundmass with mottled, resorbed qtz grains ~35%; speckled texture throughout; major groundmass is hornblende/augite ~65% as massive textured intergrowths; chloritic fracture slips are common; occasional calcite fracture fillings 5mm; tr fg pyrite grains 13.4-16.5m broken, rubbly core with high angle chloritic fracture slips 50.5-51m broken, rubbly core with high angle chloritic fracture slips | | | | | | DGY/BK | 1.6 - 4.41 |
| 71 | 100 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: strongly silicified; fg equigranular groundmass with mottled, resorbed qtz grains ~25%; speckled texture throughout; major groundmass is hornblende/augite as massive textured intergrowths; very competent with high RQD factor; tr fg pyrite grains; dark gray colour on dry core; 121.5-124.7 broken, rubbly core with high angle chloritic fracture slips | | | | | | DGY/BK | .6 - 1.8 |
| 100 | 130.4 | NIPISSING CHLORITIC DIABASE SILL | CHLDIAB | NIPISSING CHLORITIC DIABASE SILL: fg equigranular groundmass with mottled, resorbed qtz grains ~15%; speckled texture throughout; major groundmass is hornblende/chlorite as massive textured intergrowths ~85%; weakly competent with low RQD factor; light gray colour on dry core; | | | | | | DGY/BK | .25 - .42 |
| 130.4 | 137.5 | SHEAR ZONE | SHZ | SHEAR ZONE: ~85%; weakly competent with low RQD factor; light gray colour on dry core; strong shearing with black chlorite/septine on slickenside fractures: fg equigranular groundmass with mottled, resorbed qtz grains ~15%; speckled texture throughout; major groundmass is hornblende/chlorite as massive textured intergrowths 130.4-137.5m shear zone with broken, rubbly core with high angle chlorite/septine on fracture slips | | | | | | DGY/BK | .05 - .25 |
| 137.5 | 158.5 | NIPISSING CHLORITIC DIABASE SILL | CHLDIAB | NIPISSING CHLORITIC DIABASE SILL: fg equigranular groundmass with mottled, resorbed qtz grains ~15%; speckled texture throughout; major groundmass is hornblende/chlorite as massive textured intergrowths ~85%; weakly competent with low RQD factor; light gray colour on dry core; higher MS with intervals ranging from 9 to 16; | | | | | | DGY/BK | 9 - 16 |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|---------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| B-20-02 | 52 | 350.2 | 11 | 339.2 | -48.4 | REFLEX | 5511 |
| B-20-02 | 100 | 352.2 | 11 | 341.2 | -46.1 | REFLEX | 5509 |
| B-20-02 | 157 | 353.4 | 11 | 342.4 | -45 | REFLEX | 5531 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **B-20-03** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **120** NORTHING **5,244,409.0** START DATE: **March 19, 2020** CLAIM: **199542** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **606,583.0** END DATE: **March 21, 2020** CASING **Unknown**
 EOH: **81** ELEVATION **301.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **March 22, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR | AVG MS |
|------|------|-------------------------------|---------|---|-------------|------------|---------|-------------|-------------|--------|-----------|
| 0 | 9.7 | OVERBURDEN | OB | OB: GLACIAL BOULDER ABLATION TILL | | | | | | | |
| 9.7 | 45.2 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: fg equigranular groundmass with mottled, resorbed qtz grains ~35%; speckled texture throughout; major groundmass is hornblende/augite ~65% as massive textured intergrowths; chloritic fracture slips are common; occasional calcite fracture fillings .5mm; tr fg pyrite grains | | | | | | | 1.5 - 4.5 |
| 45.2 | 47 | SHEAR ZONE | SHZ | SHEAR ZONE: weakly competent with low RQD factor; light gray colour on dry core; brecciated fault gouge fragments in clayey matrix] | | | | | | | .05 - .15 |
| 47 | 51.8 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: fg equigranular groundmass with mottled, resorbed qtz grains ~35%; speckled texture throughout; major groundmass is hornblende/augite ~65% as massive textured intergrowths; chloritic fracture slips are common; occasional calcite fracture fillings .5mm; tr fg pyrite grains | | | | | | | .15 - .35 |
| 51.8 | 67.3 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: aphanitic to fg equigranular groundmass with mottled, resorbed qtz grains ~15%; speckled texture throughout; major groundmass is hornblende/augite ~85% as massive textured intergrowths; weakly epidotized; gradational contact with overlying unit; very competent core; irregular calcite/serpentinized fractures 64.3m fuchsitic/calcite fracture slip | | | | | | | .15 - .35 |
| 67.3 | 81 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | NIPISSING QUARTZ DIABASE SILL: medium to coarse grained equigranular groundmass with mottled, resorbed qtz grains ~35%; speckled texture throughout; major groundmass is hornblende/augite ~65% as massive textured intergrowths; chloritic fracture slips are common; occasional calcite fracture fillings .5mm; tr fg pyrite grains 68.8m fuchsitic/calcite fracture slip | | | | | | | .15 - .35 |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|---------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| B-20-03 | 55 | 152.9 | 11 | 141.9 | -49 | REFLEX | 5523 |
| B-20-03 | 81 | 155 | 11 | 144 | -48.8 | REFLEX | 5521 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: B-20-05
 AZM: 60
 DIP: -50
 EOH: 157m

UTM NAD 83 ZONE 17
 NORTHING 5,245,870.0
 EASTING 605,727.0
 ELEVATION 316.0

DRILL COMPANY: Huard Drilling
 START DATE: March 27, 2020
 END DATE: March 30, 2020
 CORE SIZE: BQ

TWP: Lorrain
 CLAIM: 277042
 CASING: Unknown
 LOGGED BY: Peter Hubacheck/ Alan Kon

MAKING WATER: N
 CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: April 5, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR | AVG MS |
|------|-----|-------------------------------|---------|--|-------------|------------|---------|-------------|-------------|---------------------|---------|
| 0 | 5.5 | OVERBURDEN | OB | Possible glacial till along with lake bottom silts or clays | | | | | | | |
| 5.5 | 23 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | Nip Qu Db sill: Granular grnd mass, 25%-35%, Hornblende matrix with mottled Qu grains of varies size , minor to med speckled texture with some possible Epi(?) or other grnish/yllw min. abundant fractrs at varies angles toTCA minor Cc fracture fills or slips' less than tract to~ 1%Py with some blebs. 6-56m Some broken core with various angle chloritic fracture slips or breaks | | | | | | Md/drck/Blk Grn Gry | 2.7-5.5 |
| 23 | 56 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | Nip Qu Db sill, Grnlar grnd mass, med to course grained, 25% to 35%, Hornblende matrix with mottled Qu grains, speckled tetr, abundant fractrs and slips, no Cc vns but some Epi(?) Qu veins or veinlettes with Py and other Unkwn silvery/Blk metallic | | | | | | Md/drck/Blk Grn Gry | 0-5 |
| 56 | 106 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | Nip Qu Db sill; Very similar to previous. Grnlar grnd mass, med to course grained, 25% to 35% mottled Qu grains, speckled tetr, abundant fractrs and slips. Small section at ~ 72.5m to 73m Qugrains appears to be far more abundant with nearly equal to Hornblend matrix. Some minor Serpentine slickenside fracture breaks or slips. Very little Cc veins ir veinlettes. 2 notable sections, at ~57.5m small Qu/Epi veinlette with Py/Sph(?) and at ~72m small Qu/Apl(?) veinlette with <trace Py. Some fractures or breaks have 1% or better blebby Py 56-106m Mosly blocky core but no rubble, fractures or breaks at various angles TCA | | | | | | Md/drck/Blk Grn Gry | 0-4 |
| 106 | 157 | NIPISSING QUARTZ DIABASE SILL | QTZDIAB | Nip Qu/Db sill, Silmilar to previous, granular groundmas, medium to course grained, 25% to 35% mottled & speckled texture, somewhat more silicified. Considerable amount of fractures, breaks or slips, very little rubble most likely from drill. Some minor slickensides on slips. Minimal amount of veining or veinlettes except for one small Qu/Carb vein at ~126.80 with a 1cm x 3cm Pyrite bleb. Pyrite specks throughout most of section. EOH at 157m 106-157m Mostly blocky broken.Fractures, breaks and slips at various angles TCA. | | | | | | Md/drck/Blk Grn Gry | 0-4 |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|---------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| B-20-05 | 52 | 68 | 11 | 57 | -53 | REFLEX | 5517 |
| B-20-05 | 106 | 71 | 11 | 60 | -51.8 | REFLEX | 5523 |
| B-20-05 | 157 | 75 | 11 | 64 | -50.4 | REFLEX | 5439 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **LG-20-01** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **125** NORTHING **5,245,860.0** START DATE: **June 30, 2020** CLAIM: **131127** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **605,715.0** END DATE: **July 2, 2020** CASING **Unknown**
 EOH: **75m** ELEVATION **333.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **July 3, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|----|-------------------|--------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 6 | OVERBURDEN | OB | OVERBURDEN | | | | | | |
| 6 | 75 | NIPISSING DIABASE | NIPDIA | NIPDIA: Nipissing Diabase sill: fine grained to medium grained; med to dark gray; 19.3m to 49.5m: med grained fabric with massive equigranular texture; aphanitic chloritic groundmass with 20% altered feldspar lathes; At 17.5m possible epidote(?) alteration. Core appears to have a light greenish yellow tinge. From 19m to 19.70m, core is very light colored. 1 cm wide qtz vein at 25° TCA at 19.45m; contact with fine-grained intrusive structure at 32m and qtz/calcite vein, pink in color with small amount of pyrite along edge of vein at 32.11m at 55° to TCA. Core becomes more siliceous at 32.55m with qtz/calcite crackle veinlets; At 45.55m is a 1cm wide reddish aplite vein 20° TCA; Core continues to alternate between fg to med-grained texture throughout entire section until 57.0m; increasing silicification from 69.60m to 70m; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| LG-20-01 | 52 | 120.4 | 11 | 109.4 | -41.2 | REFLEX | 5525 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **LG-20-02** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **325** NORTHING **5,245,380.0** START DATE: **July 3, 2020** CLAIM: **329881** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **606,200.0** END DATE: **July 14, 2020** CASING **Unknown**
 EOH: **100m** ELEVATION **333.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **July 16, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|------|-------------------|---------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 8.85 | OVERBURDEN | OVB | OVERBURDEN | | | | | | |
| 8.85 | 10.9 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; Cg equigranular texture pervasive; 25% quartz-2-4mm / 50% ochrous feldspar3-5mm / 25% hornblende2-4mm; minor chloritic fractures | | | | | | |
| 10.9 | 100 | NIPISSING DIABASE | NIPDIA | NIPDIA: Nipissing Diabase sill: fine grained to medium grained; med to dark gray; med grained fabric with massive equigranular texture; aphanitic chloritic groundmass with 20% altered feldspar lathes | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| LG-20-02 | 52 | 328.8 | 11 | 317.8 | -51.5 | REFLEX | 5503 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **LG-20-03** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **120** NORTHING **5,245,680.0** START DATE: **July 16, 2020** CLAIM: **329881/247076** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **606,200.0** END DATE: **July 18, 2020** CASING **casing removed**
 EOH: **85m** ELEVATION **337.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **July 20, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|------|---------------------|---------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 1.3 | OVERBURDEN | OB | OVERBURDEN: rounded diabase cobble in box @ 1.3m | | | | | | |
| 1.3 | 22.5 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; Cg equigranular texture pervasive; 25% quartz-2-4mm / 50% ochrous feldspar 3-5mm / 25% hornblende 2-4mm; minor chloritic fractures | | | | | | |
| 22.5 | 27 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; high angle joint fractures with limonite coating slip planes; Cg equigranular texture pervasive; 25% quartz / 50% ochrous feldspar / 25% hornblende; | | | | | | |
| 27 | 55.4 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; Cg equigranular texture pervasive; 25% quartz / 50% ochrous feldspar / 25% hornblende; minor chloritic fractures | | | | | | |
| 55.4 | 55.6 | HORNBLLENDE GRANITE | HBGRAN | HORNBLLENDE GRANITE: differentiated phase; sharp cooling contacts; 5% quartz / 5% red feldspar / 90% fg hornblende | | | | | | |
| 55.6 | 85 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; Cg equigranular texture pervasive; 25% quartz / 50% ochrous feldspar / 25% hornblende; minor chloritic fractures; reduction in RQD competency from 58m to 70m; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| LG-20-03 | 50 | 134 | 11 | 123 | -40.3 | REFLEX | 5537 |
| | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-01
AZM: 255
DIP: -50
EOH: 121m

UTM NAD 83 ZONE 17
NORTHING 5,242,377.0
EASTING 606,607.0
ELEVATION 337.0

DRILL COMPANY: Huard Drilling
START DATE: July 22, 2020
END DATE: July 24, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 175091
CASING: Unknown
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility
LOGGING COMPLETED: July 26, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|------|-----------|---------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 13 | OB | OB | BOULDER TILL | | | | | | |
| 13 | 23.4 | HFBX | HFBX | HETEROLITHIC FLUIDIZATION BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .7m; fine grained tuffisitic, sandy homogenous matrix is greenish gray to dark tan brown colour with moderate calcite cement; relict honeycomb texture microlitic lapilli matrix; larger autoliths are assorted mafic volcanic and variable limestone compositions with barium present due to high specific gravity; vuggy, open space porosity 5%; carbonate-rich clasts may be zoned with angular to sub-rounded honeycomb textured phenocrysts contained within amorphous groundmass | | | 75 | 25 | | |
| 23.4 | 94.7 | LORGRAN | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; choritic fracture fillings 1%; | | | | | | |
| 94.7 | 96.5 | FZ | FZ | FAULT ZONE: 50% fault gouge; limonite staining on fractures | | | | | | |
| 96.5 | 121 | LORGRAN | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; choritic fracture fillings 1%; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| PP-20-01 | 50 | 274.2 | 11 | 263.2 | -49.5 | REFLEX | 5583 |
| PP-20-01 | 121 | 274.9 | 11 | 263.9 | -46 | REFLEX | 5545 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **PP-20-02** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **225** NORTHING **5,242,279.0** START DATE: **July 27, 2020** CLAIM: **175091** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-50** EASTING **606,555.0** END DATE: **July 30, 2020** CASING **Unknown**
 EOH: **75m** ELEVATION **327.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **August 1, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | MIN TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|------|--|---------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 10 | OB | OB | BOULDER TILL: pebbles and cobbles in contact with kimberlite | | | | | | |
| 7 | 28.6 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .4m; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 5%; chromite frosting on lapilli and xenoclasts/clasts; also fg irregular ilmenite/chromite grains; are 85% of tan-coloured, clayey, sandy matrix; larger autoliths are assorted mafic volcanic and variable carbonate compositions 5%; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; tr phlogopite micro-phenocrysts | | | | | | |
| 28.6 | 75 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; 23.8m to 28.9m: intense shearing with chloritic goethite fracture fillings 35%; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| PP-20-02 | 42 | 233.5 | 11 | 222.5 | -52.9 | REFLEX | 5524 |
| PP-20-02 | 85 | 234.2 | 11 | 223.2 | -51.3 | REFLEX | 5521 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDHR: PP-20-03
AZM: 0
DIP: -90
EOH: 72.4

UTM NAD 83 ZONE 17
NORTHING 5,242,410.0
EASTING 606,440.0
ELEVATION 324.0

DRILL COMPANY: Huard Drilling
START DATE: July 31, 2020
END DATE: August 5, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 175091
CASING: Unknown
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: August 7, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 4 | OB | OB | BOULDER TILL: pebbles and cobbles in contact with kimberlite | | | | | | |
| 4 | 13.4 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .4m; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 5%; chromite frosting on lapilli and xenoclasts; also fg irregular ilmenite/chromite grains; are 85% of tan-coloured, clayey, sandy matrix; larger autoliths are assorted mafic volcanic and variable carbonate compositions 5%; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; tr phlogopite micro-phenocrysts 6.5-6.6m relict microlitic texture; honeycomb textured xenocryst 9.7-10m 0.3m diabase autoclast with very fine grain disseminated pyrite 10% 10.2-10.2 relict microlitic texture; 2.5mm to 7mm honeycomb textured xenocryst 10.7-11m 0.3m granitoid autoclast 23.8-24.8m brecciated, sheared granite with 50% fault gouge with goethite oxidation 25.3-25.8m brecciated, sheared granite with 50% fault gouge with goethite oxidation 28.4-28.9m brecciated, sheared granite with 50% fault gouge with goethite oxidation 33.7-34m brecciated, sheared granite with 50% fault gouge with goethite oxidation 36.2-37m brecciated, sheared granite with 50% fault gouge with goethite oxidation 40.3-41m brecciated, sheared granite with 50% fault gouge with goethite oxidation | | | 85 | 10 | 5 | |
| 13.4 | 72.4 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; 23.8m to 28.9m: intense shearing with choritic goethite fracture fillings 35%; | | | | | | |
| | | | | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| PP-20-03 | 73 | 148.2 | 11 | 135.2 | -88.4 | REFLEX | 5552 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | CERTIFICATE |
|------------------------|----|--------------|------|-------------|
| Combined with PP-20-04 | | | | |

RJK EXPLORATIONS LTD
NIPissing DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-04
AZM: 245
DIP: -50
EOH: 231m

UTM NAD 83 ZONE 17
NORTHING 5,242,409.0
EASTING 606,432.0
ELEVATION 322.0

DRILL COMPANY: Huard Drilling
START DATE: August 6, 2020
END DATE: August 21, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 175091
CASING: Unknown
LOGGED BY: Peter Hubackcheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: August 27, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 4.5 | OB | OB | BOULDER TILL: .3m angular diabase boulder in contact with kimberlite | | | | | | |
| 4.4 | 25.6 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HITKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .3m; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-2mm) in matrix 7%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 23% of tan-coloured amorphous matrix; larger autoliths are assorted mafic volcanic and variable granitic compositions; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; tr phlogopite micro-phenocrysts 13-13.2m 0.25m granitic autoclast (Lorrain Granite) 13.7-14m 0.25m diabase autoclast with very fine grain disseminated pyrite 10% 16-16.25m pelletal lapilli with chromite/ilmenite frosting 18-18.2m 0.25m granitic autoclast 40.65-41m granitic breccia with chloritic fault gouge 46-46.5m brecciated diabase with 50% fault gouge with calcite in-filling breccia 75-76m red stained fractures; niccolite staining 77.25-77.75m Brecciated diabase with 25% fault with crystalline calcite in-filling open space fractures and brecciated veinlets 83.25-83.75m granite raft in dike | | | 75 | 20 | 5 | |
| 25.6 | 43.5 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; chortitic fracture fillings 15%; | | | | | | |
| 42.5 | 50.6 | DIABASE DIKE | DIADIKE | DIABASE DIKE: fine grained, aphanitic to mottled textured groundmass; sharp upper contact with .4m chill zone; calcite crackle veinlets @ 70 TCA ~5% increasing downhole; metallic lustre mineral with acicular crystal habit; 10% niccolite? | | | | | | |
| 50.6 | 52.35 | FAULT ZONE | FZ | FAULT ZONE: 90% broken rubby diabase core with calcite stringers ; vfg dissem crypto-crystalline magnetite 10% | | | | | | |
| 52.35 | 73.9 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; chortitic fracture fillings 15%; | | | | | | |
| 73.9 | 83.65 | DIABASE DIKE | DIADIKE | DIABASE DIKE: fine grained, aphanitic to sucrosic textured groundmass; sharp upper contact; calcite crackle veinlets @ 70 TCA ~5% increasing to 25% in breccia veining interval from 77.25m to 77.75m | | | | | | |
| 83.65 | 231 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; chortitic fracture fillings 15%; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| PP-20-04 | 100 | 257.2 | 11 | 246.2 | -47.4 | REFLEX | 5490 |
| PP-20-04 | 150 | 261.3 | 11 | 250.3 | -44.3 | REFLEX | 5512 |
| PP-20-04 | 220 | 266.3 | 11 | 255.3 | -41.3 | REFLEX | 5483 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BATCH # | WEIGHT (Kg) | CERTIFICATE |
|-------|-------|--------------|---------|-------------|---------------|
| 16.25 | 25.6 | 9.35 | 1 | 11.8 | CFM - PRB9548 |
| 10.15 | 16.25 | 6.1 | 2 | 10.9 | CFM - PRB9548 |
| 7 | 10.15 | 3.15 | 3 | 10.9 | CFM - PRB9548 |
| 4 | 13.4 | 9.4 | 4 | 9.1 | CFM - PRB9548 |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **PP-20-04** UTM NAD 83 ZONE 17
 AZM: **245** NORTHING **5,242,409.0** DRILL COMPANY: **Huard Drilling**
 DIP: **-50** EASTING **606,432.0** START DATE: **August 6, 2020**
 EOH: **231m** ELEVATION **322.0** END DATE: **August 21, 2020**
 CORE SIZE: **BQ**

TWP: **Lorrain**
 CLAIM: **175091**
 CASING: **Unknown**
 LOGGED BY: **Peter Hubacheck**

MAKING WATER: **N**
 CORE LOCATION: **Kenogami Lake Core Facility**
 LOGGING COMPLETED: **August 27, 2020**

SAMPLING

| FROM | TO | INTERVAL (m) | SAMPLE # | WEIGHT (Kg) | CERTIFICATE |
|----------|-------|--------------|----------|-------------|-------------------|
| PP-20-04 | 41.5 | 42.5 | 1 | P679101 | SGS - YCN20-00067 |
| PP-20-04 | 42.5 | 43 | 0.5 | P679102 | SGS - YCN20-00067 |
| PP-20-04 | 43 | 44 | 1 | P679103 | SGS - YCN20-00067 |
| PP-20-04 | 44 | 45 | 1 | P679104 | SGS - YCN20-00067 |
| PP-20-04 | 45 | 46 | 1 | P679105 | SGS - YCN20-00067 |
| PP-20-04 | 46 | 47 | 1 | P679106 | SGS - YCN20-00067 |
| PP-20-04 | 47 | 48 | 1 | P679107 | SGS - YCN20-00067 |
| PP-20-04 | 48 | 49 | 1 | P679108 | SGS - YCN20-00067 |
| PP-20-04 | 49 | 50 | 1 | P679109 | SGS - YCN20-00067 |
| PP-20-04 | 50 | 50.6 | 0.6 | P679110 | SGS - YCN20-00067 |
| PP-20-04 | 50.6 | 51.6 | 1 | P679111 | SGS - YCN20-00067 |
| PP-20-04 | 72.9 | 73.9 | 1 | P679112 | SGS - YCN20-00067 |
| PP-20-04 | 73.9 | 75 | 1.1 | P679113 | SGS - YCN20-00067 |
| PP-20-04 | 75 | 76 | 1 | P679114 | SGS - YCN20-00067 |
| PP-20-04 | 76 | 77 | 1 | P679115 | SGS - YCN20-00067 |
| PP-20-04 | 77 | 78 | 1 | P679116 | SGS - YCN20-00067 |
| PP-20-04 | 78 | 79 | 1 | P679117 | SGS - YCN20-00067 |
| PP-20-04 | 79 | 80 | 1 | P679118 | SGS - YCN20-00067 |
| PP-20-04 | 80 | 81 | 1 | P679119 | SGS - YCN20-00067 |
| PP-20-04 | 81 | 82 | 1 | P679120 | SGS - YCN20-00067 |
| PP-20-04 | 82 | 83 | 1 | P679121 | SGS - YCN20-00067 |
| PP-20-04 | 83 | 83.65 | 0.65 | P679122 | SGS - YCN20-00067 |
| PP-20-04 | 83.65 | 84.65 | 1 | P679123 | SGS - YCN20-00067 |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **PP-20-05A**
 AZM: **0**
 DIP: **-90**
 EOH: **30.5m**

UTM NAD 83 ZONE 17
 NORTHING **5,242,399.0**
 EASTING **606,547.0**
 ELEVATION **335.0**

DRILL COMPANY: **Huard Drilling**
 START DATE: **August 22, 2020**
 END DATE: **August 27, 2020**
 CORE SIZE: **BQ**

TWP: **Lorrain**
 CLAIM: **175091**
 CASING: **Unknown**
 LOGGED BY: **Peter Hubacheck**

MAKING WATER: **N**
 CORE LOCATION: **Kenogami Lake Core Facility**

LOGGING COMPLETED: **August 28, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 6.05 | OB | OB | BOULDER TILL | | | | | | |
| 6.05 | 15.2 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .4m; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 5%; chromite frosting on lapilli and xenoclasts; also fine irregular ilmenite/chromite grains; are 85% of tan-coloured, clayey, sandy matrix; larger autoliths are assorted mafic volcanic and variable carbonate compositions 5%; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; tr phlogopite micro-phenocrysts | | | | | | |
| 15.2 | 18.25 | LORRAIN GRANITE BRECCIA | LGBX | BRECCIATED LORRAIN GRANITE: Angular to sub-angular breccia fragment pieces; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; coarse feldspar phenocrysts up to 3cm; choritic fracture fillings 15%; | | | | | | |
| 18.25 | 30.5 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; coarse feldspar phenocrysts up to 3cm; choritic fracture fillings 15%; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-06
AZM: 245
DIP: -50
EOH: 50m

UTM NAD 83 ZONE 17
NORTHING 5,242,114.0
EASTING 606,608.0
ELEVATION 328.0

DRILL COMPANY: Huard Drilling
START DATE: August 28, 2020
END DATE: August 31, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 155684
CASING: Unknown
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: September 1, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | CIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 4.05 | OB | OB | BOULDER TILL | | | | | | |
| 4.05 | 10.15 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .4m; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 5%; chromite frosting on lapilli and xenoclasts; also fg irregular ilmenite/chromite grains; are 85% of tan-coloured, clayey, sandy matrix; larger autoliths are assorted mafic volcanic and variable carbonate compositions 5%; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; tr phlogopite micro-phenocrysts | | | | | | |
| 10.15 | 50 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate to strong silicification; cg feldspar phenocrysts up to 3cm; choritic fracture fillings 15%; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-07
AZM: 0
DIP: -90
E0H: 17m

UTM NAD 83 ZONE 17
NORTHING 5,241,984.0
EASTING 606,654.0
ELEVATION 330.0

DRILL COMPANY: Huard Drilling
START DATE: September 5, 2020
END DATE: September 10, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 155684
CASING: Unknown
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: September 11, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|---------|--|-------------|-------------|---------|-------------|-------------|--------|
| 0 | 3 | OB | OB | OVERBURDEN: cobbles- casing set to 4.05m | | | | | | |
| 3 | 16.1 | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA | HVKBX | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .1cm to .2m - 10% magmaclasts; fine grained tuffisitic, sandy homogenous matrix (75%) is dark tan brown colour with moderate calcite cement; microlitic. pelletal lapilli (.1mm-.2mm) in matrix 7%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 15% of tan-coloured amorphous matrix; larger autoliths are assorted mafic volcanic and variable granitic compositions; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts | Massive | Crater fill | 75 | | 15 | |
| 16.1 | 17.25 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz;31.3m to 33.45m: moderate to strong silicification; cg feldspar phenocrysts up to 3cm; 65.05m to 66.35m: choritic fracture fillings 15% with ohre-red staining; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | CERTIFICATE |
|----------------|----|--------------|------|------------------|
| DSM Processing | | | | Microlithics Lab |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-08
AZM: 245
DIP: -50
EOH: 135.5

UTM NAD 83 ZONE 17
NORTHING 5,241,871.0
EASTING 606,713.0
ELEVATION 331.0

DRILL COMPANY: Huard Drilling
START DATE: September 11, 2020
END DATE: September 20, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 155684
CASING: casing left in hole
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: September 23, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 7.1 | OB | OB | BOULDER TILL: diabase/granitoid boulders in contact with kimberlite | | | | | | |
| 7.1 | 31.3 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .3m - 5% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 7%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 23% of tan-coloured amorphous matrix; larger autoliths are assorted mafic volcanic and variable granitic compositions; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts 10.15-10.25m rhombohedral calcite globule 19.3-19.5m glassy monticellite microcrysts? with pelletal lapilli microcrysts 26.4-26.5m glassy monticellite macrocrysts 28.65-28.95m carbonate globular autoclast 30-30.2m glassy 2mm conchoidal macrocryst with ilmenite frosting 30.9-31.1m tan coloured, laminated sediment autoclast (varved periglacial lake sed) 31.3m kimberlite/granite contact | | | 65 | 20 | 15 | |
| 31.3 | 70 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz;31.3m to 33.45m: moderate to strong silicification; cg feldspar phenocrysts up to 3cm; 65.05m to 66.35m: chloritic fracture fillings 15% with ohre-red staining; 58.65-58.95m chlorite-filled high angle fracture zone 65.05-66.35m highly fractured, silicified granite, limonite stained fractures | | | | | | |
| 70 | 95.55 | DIABASE DIKE | DIADIKE | DIABASE DIKE: fine grained, aphanitic to dark gray sugrosic textured siliceous groundmass up to 60% silica; sharp upper contact; calcite crackle veinlets @ 45 TCA over .1m at contact; fg diabase textured chill zone ~5% from 70m to 71.15m; cg gabbroic texture from 73m to 88m; aphanitic chloritic chill zone from 92.5m to 95.55m; metallic lustre mineral with acicular crystal habit; 5-10% millerite(magnetic if formed at high temperatures)? soft, metallic subconchoidal mineral in aggregates disseminated in siliceous groundmass 5-8% - possibly argentite; HIGH SG. 70-71.15m Chill zone at upper contact, fine grain diabase texture 0.1m fault gouge at contact. 93.5-95.55m calcite crackle brecciated chill zone - 10% veinlets | | | | | | |
| 95.55 | 135.5 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz; moderate silicification; cg feldspar phenocrysts up to 3cm; chloritic fracture fillings 15%; 125.3-127.3m highly fractured chloritic slips at 0 and 20 degrees to core axis. | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|----------|-------|-------------|----------------------|--------------|-------|-------------|----------------|
| PP-20-08 | 67 | 276.4 | 11 | 265.4 | -47.4 | REFLEX | 5491 |
| PP-20-08 | 134 | 275.6 | 11 | 264.6 | -44.8 | REFLEX | 5498 |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-08 UTM NAD 83 ZONE 17
AZM: 245 NORTHING 5,241,871.0
DIP: -50 EASTING 606,713.0
EOH: 135.5 ELEVATION 331.0

DRILL COMPANY: Huard Drilling
START DATE: September 11, 2020
END DATE: September 20, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 155684
CASING: casing left in hole
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility
LOGGING COMPLETED: September 23, 2020

SAMPLING

| FROM | TO | INTERVAL (m) | SAMPLE # | CERTIFICATE |
|-------|-------|--------------|----------|-------------------|
| 69 | 70 | 1 | P679124 | SGS - YCN20-00066 |
| 70 | 71 | 1 | P679125 | SGS - YCN20-00066 |
| 71 | 72 | 1 | P679126 | SGS - YCN20-00066 |
| 72 | 73 | 1 | P679127 | SGS - YCN20-00066 |
| 73 | 74 | 1 | P679128 | SGS - YCN20-00066 |
| 74 | 75 | 1 | P679129 | SGS - YCN20-00066 |
| 75 | 76 | 1 | P679130 | SGS - YCN20-00066 |
| 76 | 77 | 1 | P679131 | SGS - YCN20-00066 |
| 77 | 78 | 1 | P679132 | SGS - YCN20-00066 |
| 78 | 79 | 1 | P679133 | SGS - YCN20-00066 |
| 79 | 80 | 1 | P679134 | SGS - YCN20-00066 |
| 80 | 81 | 1 | P679135 | SGS - YCN20-00066 |
| 81 | 82 | 1 | P679136 | SGS - YCN20-00066 |
| 82 | 83 | 1 | P679137 | SGS - YCN20-00066 |
| 83 | 84 | 1 | P679138 | SGS - YCN20-00066 |
| 84 | 85 | 1 | P679139 | SGS - YCN20-00066 |
| 85 | 86 | 1 | P679140 | SGS - YCN20-00066 |
| 86 | 87 | 1 | P679141 | SGS - YCN20-00066 |
| 87 | 88 | 1 | P679142 | SGS - YCN20-00066 |
| 88 | 89 | 1 | P679143 | SGS - YCN20-00066 |
| 89 | 90 | 1 | P679144 | SGS - YCN20-00066 |
| 90 | 91 | 1 | P679145 | SGS - YCN20-00066 |
| 91 | 92 | 1 | P679146 | SGS - YCN20-00066 |
| 92 | 93 | 1 | P679147 | SGS - YCN20-00066 |
| 93 | 94 | 1 | P679148 | SGS - YCN20-00066 |
| 94 | 95.55 | 1.55 | P679149 | SGS - YCN20-00066 |
| 95.55 | 96.55 | 1 | P679150 | SGS - YCN20-00066 |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BATCH # | WEIGHT (Kg) | CERTIFICATE |
|------|------|--------------|---------|-------------|---------------|
| 7.1 | 13.2 | 6.1 | 4 | 16.4 | CFM - PRB9547 |
| 13.2 | 19.3 | 6.1 | 3 | 18.2 | CFM - PRB9547 |
| 19.3 | 25.4 | 6.1 | 2 | 14.1 | CFM - PRB9547 |
| 25.4 | 31.3 | 5.9 | 1 | 15.9 | CFM - PRB9547 |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-09
AZM: 238
DIP: -50
EOH: 160m

UTM NAD 83 ZONE 17
NORTHING 5,241,790.0
EASTING 606,728.0
ELEVATION 325.0

DRILL COMPANY: Huard Drilling
START DATE: September 21, 2020
END DATE: September 27, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 155684/239443
CASING: casing left in hole
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: September 30, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 5 | OB | OB | BOULDER TILL: .4m diabase/granitoid cobbles with sand(washed out) | | | | | | |
| 5 | 29.7 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .3m - 5% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark tan brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 7%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 23% of tan-coloured amorphous matrix; larger autoliths are assorted mafic volcanic and variable granitic compositions; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts | | | | 3 | | |
| 29.7 | 58.7 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz;31.3m to 33.45m: moderate to strong silicification; cg feldspar phenocrysts up to 3cm; 65.05m to 66.35m: chortitic fracture fillings 15% with ohre-red staining; | | | | | | |
| 58.7 | 82.25 | DIABASE DIKE | DIADIKE | DIABASE DIKE: fine grained, aphanitic to dark gray sugrosic textured siliceous groundmass up to 60% silica; sharp upper contact; calcite crackle veinlets @ 45 TCA over .1m at contact; fg diabase textured chloritic phase ~5% from 58.7m to 60.7m; 60.7m to 80.5m: cg gabbroic texture with chloritic spotting; 80.5m to 82.25m: aphanitic, chloritic dike wall lower boundary zone, 5% calcite crackle veinlets ; metallic lustre mineral with acicular crystal habit; 5-10% millerite(magnetic if formed at high temperatures)? soft, metallic subconchoidal mineral in aggregates disseminated in siliceous groundmass 5-8% - possibly argentite; HIGH SG | | | | | | |
| 82.25 | 131.6 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:45% coarse grained groundmass with euhedral hornblende-rich matrix 35%; 20% amorphous quartz;31.3m to 33.45m: moderate to strong silicification from 107.1m to m;; cg feldspar phenocrysts up to 3cm; 99.3m to 100.5m: chortitic, hematitic fracture fillings 15% with ohre-red staining; | | | | | | |
| 131.6 | 160 | CROSS LAKE FAULT ZONE | CLFZ | CLFZ: Cross Lake Fault Zone: intensely brecciated fault zone in Lorrain Granite; rubbly broken core; highly weathered' some crackle brecciated core intervals scattered throughout the intersection' MS = 0; RQD = 0 | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BATCH # | WEIGHT (Kg) | CERTIFICATE |
|-------|-------|--------------|---------|-------------|---------------|
| 22.35 | 29.7 | 7.35 | 1 | 10.0 | CFM - PRB9546 |
| 16.25 | 22.35 | 6.1 | 2 | 15.5 | CFM - PRB9546 |
| 10.15 | 16.25 | 6.1 | 3 | 18.2 | CFM - PRB9546 |
| 5 | 10.15 | 5.15 | 4 | 9.1 | CFM - PRB9546 |

RJK EXPLORATIONS LTD
NIPissing DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-10
AZM: 360/0
DIP: -90
EOH: 25.4

UTM NAD 83 ZONE 17
NORTHING 5,241,822.0
EASTING 606,824.0
ELEVATION 340.0

DRILL COMPANY: Huard Drilling
START DATE: September 27, 2020
END DATE: September 28, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 126017
CASING: casing left in hole
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: September 29, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 7.1 | OB | OB | BOULDER TILL: .4m diabase/granitoid cobbles with sand(washed out) | | | | | | |
| 7.1 | 22.35 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular to rounded blocks ranging from .2cm to .35m - 5% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 7%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 15% of tan-coloured amorphous matrix; larger autoliths are assorted mafic volcanic compositions; vuggy, open space porosity 5%; carbonate-rich tan-coloured clasts are mainly globular; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts and pyrope macrocrysts 7.1-7.2m glassy monticellite microcrysts with pelletal ilmenite lapillis; pyropes 10.15-10.35m pyrope macrocryst 5mm | | | | | | |
| 22.35 | 25.4 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz;31.3m to 33.45m: moderate to strong silicification; mg feldspar phenocrysts up to .5cm; 25.3-25.4m glassy monticellite microcrysts with pelletal ilmenite lapillis; pyropes | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-11 UTM NAD 83 ZONE 17 DRILL COMPANY: Huard Drilling TWP: Lorrain
 AZM: 0 NORTHING 5,241,900.0 START DATE: September 28, 2020 CLAIM: 126017 MAKING WATER: N
 DIP: -90 EASTING 606,944.0 END DATE: September 28, 2020 CASING casing left in hole CORE LOCATION: Kenogami Lake Core Facility
 EOH: 11.15m ELEVATION 350.0 CORE SIZE: BQ LOGGED BY: Peter Hubacheck LOGGING COMPLETED: September 29, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|---------|---|-------------|----------------|---------|-------------|-------------|---------------|
| 0 | 5 | OB | OB | BOULDER TILL: .4m diabase/granitoid cobbles with sand(washed out) | | | | | | |
| 5 | 8.3 | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA | HVKBX | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA: matrix supported with mixed angular diabase/lorrain granite blocks ranging from .05cm to .3m - 25% magmaclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli ilmenite xenoclasts(.1mm-.3mm) in matrix 75%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 10% of tan-coloured amorphous matrix; larger xenoliths are dominant; vuggy, open space porosity 1% with monticellite infillings; carbonate-rich tan-coloured xenoclasts are mainly globular with monticellite microcrysts; 1% phlogopite microcrysts with 5% translucent tabular monticellite microcrysts; sharp lower contact with smooth, polished surface of Lorrain granite | Massive | Volcaniclastic | 75 | | 10 | Tan Green |
| 8.3 | 11.15 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz; moderate to strong silicification; mg feldspar phenocrysts up to .5cm; | | | | | | Reddish brown |
| | | | | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **PP-20-12** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **0** NORTHING **5,241,950.0** START DATE: **September 29, 2020** CLAIM: **126017** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-90** EASTING **607,069.0** END DATE: **September 30, 2020** CASING **casing left in hole**
 EOH: **5.1** ELEVATION **350.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **October 2, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-----|--|---------|--|-------------|----------------|---------|-------------|-------------|-----------|
| 0 | 3 | OB | OB | BOULDER TILL: .5m cobbles with no sand | | | | | | |
| 3 | 4.3 | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA | HVKBX | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA: matrix supported with mixed angular diabase/lorrain granite blocks ranging from .05cm to .3m - 25% magmaclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic. pelletal lapilli ilmenite xenoclasts(.1mm-.3mm) in matrix 75%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 10% of tan-coloured amorphous matrix;larger xenoliths are dominant; vuggy, open space porosity 1% with monticellite infillings; carbonate-rich tan-coloured xenoclasts are mainly globular with monticellite microcrysts; 1% phlogopite microcrysts with 5% translucent tabular monticellite microcrysts; sharp lower contact with smooth, polished surface of Lorrain granite | Massive | Volcaniclastic | 75 | | 10 | Tan Green |
| 4.3 | 5.1 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz; moderate to strong silicification; mg feldspar phenocrysts up to .5cm; | | | | | | |
| | | | | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | CERTIFICATE |
|----------------|----|--------------|------|-------------------|
| DSM Processing | | | | Microolithics Lab |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-13
 AZM: 360/0
 DIP: -90
 EOH: 18.75m

UTM NAD 83 ZONE 17
 NORTHING 5,242,134.0
 EASTING 606,800.0
 ELEVATION 345.0

DRILL COMPANY: Huard Drilling
 START DATE: October 1, 2020
 END DATE: October 2, 2020
 CORE SIZE: BQ

TWP: Lorrain
 CLAIM: 126017
 CASING: casing left in hole
 LOGGED BY: Peter Hubacheck

MAKING WATER: N
 CORE LOCATION: Kenogami Lake Core Facility

LOGGING COMPLETED: October 3, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|-------|-------|--|---------|---|-------------|----------------|---------|-------------|-------------|-----------|
| 0 | 2.5 | OB | OB | BOULDER TILL: .2m cobbles with no sand | | | | | | |
| 2.5 | 16.25 | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA | HVKBX | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA: matrix supported with mixed angular diabase/Lorrain granite blocks ranging from .05cm to .3m - 8% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli ilmenite zencoclasts (.1mm-.3mm) in matrix 77%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 15% of tan-coloured amorphous matrix; larger zenoliths are dominant; vuggy, open space porosity 1% with monticellite infillings; carbonate-rich tan-coloured zencoclasts are mainly globular with monticellite microcrysts; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts; sharp lower contact with smooth, polished surface of Lorrain granite | Massive | Volcaniclastic | 77 | | 15 | Tan Green |
| 16.25 | 18.75 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz; moderate to strong silicification; mg feldspar phenocrysts up to .5cm; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | CERTIFICATE |
|----------------|----|--------------|------|-------------------|
| DSM Processing | | | | Microliothics Lab |

RIK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: PP-20-20
AZM: 240
DIP: -50
EOH: 62m

UTM NAD 83 ZONE 17
NORTHING 5,239,000.0
EASTING 609,100.0
ELEVATION 320.0

DRILL COMPANY: Huard Drilling
START DATE: December 8, 2020
END DATE: December 10, 2020
CORE SIZE: BQ

TWP: Lorrain
CLAIM: 567969
CASING: Unknown
LOGGED BY: Peter Hubacheck

MAKING WATER: N
CORE LOCATION: Kenogami Lake Core Facility
LOGGING COMPLETED: December 11, 2020

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|----|-----------------|---------|--|-------------|------------|---------|-------------|-------------|----------|
| 0 | 3 | OVERBURDEN | OB | OVERBURDEN: 1m cobbles , pebbles with no sand | | | | | | |
| 3 | 62 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts:65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz; moderate to strong silicification; mg feldspar phenocrysts up to .5cm; 21.5m joint/fracture 25 tca and 60.6m joint/fracture 10 tca 13.2-13.4m and 43.25-46.25m broken core; moderate bleaching | | | | | | Pink/Red |
| | | | | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **GL-20-01**
AZM: **360**
DIP: **-90**
EOH: **28.5**

UTM NAD 83 ZONE 17
NORTHING **5,241,320.0**
EASTING **608,090.0**
ELEVATION **335.0**

DRILL COMPANY: **Huard Drilling**
START DATE: **November 12, 2020**
END DATE: **November 13, 2020**
CORE SIZE: **BQ**

TWP: **Lorrain**
CLAIM: **210724**
CASING **Unknown**
LOGGED BY: **Peter Hubacheck**

MAKING WATER: **N**
CORE LOCATION: **Kenogami Lake Core Facility**

LOGGING COMPLETED: **November 13, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR | AVG MS |
|-------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|--------|
| 0 | 2.8 | OVERBURDEN | OB | OVERBURDEN: .3m cobbles , pebbles with no sand | | | | | | | |
| 2.8 | 8.75 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular mafic /granitoid blocks ranging from .5 cm to .15m - 15% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 75%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 5% of tan-coloured amorphous matrix; larger autoliths are ot dominant; vuggy, open space porosity 5%; carbonate-rich tan-coloured zenoclasts are mainly globular with monticellite microcrysts 5%; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts; sharp lower contact with broken surface of kaolinized syenite 2.8M KIM upper contact 75 dca kim matrix stuck to 0.2m granitic autoclast 8.75m KIM lower contact 50 dca | | | 75 | 15 | 10 | | |
| 8.75 | 19.7 | KAOLINIZED SYENITE | KAOSYEN | KAOSYEN: kaolinized and epidotized syenite: fine to med grained equigranular texture; moderate kaolinization of feldspars; 12.6m to 13.2m: high angle strongly kaolinized granular fault gouge zone; 17.05m to 18.15m: high angle strongly kaolinized granular fault gouge zone; 19.3m to 19.7m: lateral alteration from perpendicular to drill hole axis with relict syenite groundmass preserved in alteration zone 13.2m brecciated fracture 5cm fault gouge kaolinized breccia | | | | | | | |
| 19.7 | 20.4 | SYENITE | SYEN | SYEN; massive bedded, pink coloured, fg to med gr groundmass with weak foliation in mafic accessory minerals=15% | | | | | | | |
| 20.4 | 21.2 | KAOLINIZED SYENITE | KAOSYEN | KAOSYEN: kaolinized and epidotized syenite: fine to med grained equigranular texture; moderate kaolinization of feldspars; gradational with bounding units | | | | | | | |
| 21.2 | 22 | SYENITE | SYEN | SYEN; massive bedded, pink coloured, fg to med gr groundmass with weak foliation in mafic accessory minerals=15% | | | | | | | |
| 22 | 22.55 | KAOLINIZED SYENITE | KAOSYEN | KAOSYEN: kaolinized and epidotized syenite: fine to med grained equigranular texture; moderate kaolinization of feldspars; high angle fault gouge with bounding units | | | | | | | |
| 22.55 | 28.45 | SYENITE | SYEN | SYEN; massive bedded, pink coloured, fg to med gr groundmass with weak foliation in mafic accessory minerals=15% weak epidotized fracture shears present 23.85m brecciated fracture 5cm fault gouge kaolinized breccia | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **GL-20-02** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **360** NORTHING **5,241,371.0** START DATE: **November 13, 2020** CLAIM: **569259** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-90** EASTING **608,670.0** END DATE: **November 14, 2020** CASING: **Unknown**
 ECH: **22.4** ELEVATION **320.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **November 15, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|-------|---|-------------|------------|---------|-------------|-------------|--------|
| 0 | 4.45 | OVERBURDEN | OB | OVERBURDEN: .6m cobbles , pebbles with no sand | | | | | | |
| 4.45 | 18.5 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with mixed angular mafic /granitoid, globular blocks ranging from .5 cm to .15m - 10% autoclasts; fine grained tuffisitic, sandy homogenous matrix is dark greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 80%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 5% of tan-coloured amorphous matrix;larger autoliths are of dominant; vuggy, open space porosity 5%; carbonate-rich tan-coloured zenoclasts are mainly globular with monticellite microcrysts 5%; 1% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts; sharp lower contact with broken surface of kaolinized, fractured syenite 4.45m KIM upper contact tan carbonate zenoclast at contact 18.5m KIM lower contact kaolinized fractured syenite at contact | | | | | | |
| 18.5 | 22.35 | SYENITE | SYEN | SYEN; massive bedded, pink coloured, fg to med gr groundmass with weak foliation in mafic accessory minerals=15% weak epidotized fracture shears present 18.5-19.7m high angle fracture at 0 dca with epidotized gouge material | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **HSM-20-01**
 AZM: **360**
 DIP: **-90**
 EOH: **31.5**

UTM NAD 83 ZONE 17
 NORTHING **5,239,424.0**
 EASTING **608,461.0**
 ELEVATION **320.0**

DRILL COMPANY: **Huard Drilling**
 START DATE: **November 29, 2020**
 END DATE: **November 30, 2020**
 CORE SIZE: **BQ**

TWP: **Lorrain**
 CLAIM: **331574**
 CASING: **Unknown**
 LOGGED BY: **Peter Hubacheck**

MAKING WATER: **N**
 CORE LOCATION: **Kenogami Lake Core Facility**

LOGGING COMPLETED: **December 1, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|---------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 12.6 | OVERBURDEN | OB | OVERBURDEN: 3.3m boulders, cobbles , pebbles with no sand | | | | | | |
| 12.6 | 27.25 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with 23 % mixed angular Lorrain quartzite / globular carbonate clasts ranging from 2 cm to .3m - 8% autoclasts; few scattered granite autoclasts: 1%; fine grained tuffisitic, sandy homogenous matrix is light greenish brown colour with moderate calcite cement; microlitic. pelletal lapilli (.1mm-.2mm) in matrix 62%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 8% of tan-coloured amorphous matrix; larger xenoliths are of dominant; vuggy, open space porosity 5%; carbonate-rich tan-coloured xenoclasts are mainly globular with monticellite microcrysts 8%; sandy matrix composed of 1% phlogopite microcrysts with 69% translucent tabular monticellite microcrysts; 12.8m KIM upper contact tan carbonate xenoclast at contact 16.25m KIM lower contact 60 dca high angle fracture in granite at contact | | | 50 | 20 | 30 | |
| 26.7 | 31.5 | LORRAIN GRANITE | LORGRAN | LORRAIN GRANITE: massively bedded; equigranular pinkish feldspar phenocrysts: 65% fine grained groundmass with platy foliated hornblende matrix 15%; 20% amorphous quartz; moderate to strong silicification; mg feldspar phenocrysts up to .5cm; | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
 NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **HSM-20-02** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **360** NORTHING **5,239,670.0** START DATE: **December 1, 2020** CLAIM: **203195** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-90** EASTING **608,247.0** END DATE: **December 1, 2020** CASING **Unknown**
 EOH: **52.85** ELEVATION **339.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck** LOGGING COMPLETED: **December 1, 2020**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|-------|--|-------------|------------|---------|-------------|-------------|--------|
| 0 | 4.05 | OVERBURDEN | OB | OVERBURDEN: 5m , cobbles , pebbles with no sand | | | | | | |
| 4.05 | 52.85 | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA | HTKBX | HETEROLITHIC TUFFISITIC KIMBERLITE BRECCIA: matrix supported with 8 % mixed angular mafic / globular carbonate clasts ranging from 2 cm to .15m - 8% autoclasts; few scattered granite autoclasts: 2%; fine grained tuffisitic, sandy homogenous matrix is light greenish brown colour with moderate calcite cement; microlitic, pelletal lapilli (.1mm-.2mm) in matrix 62%; chromite frosting on lapilli clasts; also fg irregular ilmenite/chromite grains are 8% of tan-coloured amorphous matrix; larger xenoliths are ot dominant; vuggy, open space porosity 5%; carbonate-rich tan-coloured zenoclasts are mainly globular with monticellite microcrysts 10%; tr% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts; | | | 62 | 8 | 26 | |
| | | | | | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

RJK EXPLORATIONS LTD
NIPISSING DIAMOND PROJECT - LORRAIN PROPERTY

DDH#: **HSM-20-03** UTM NAD 83 ZONE 17 DRILL COMPANY: **Huard Drilling** TWP: **Lorrain** MAKING WATER: **N**
 AZM: **360** NORTHING **5,239,834.0** START DATE: **December 2, 2020** CLAIM: **138563** CORE LOCATION: **Kenogami Lake Core Facility**
 DIP: **-90** EASTING **607,952.0** END DATE: **December 2, 2020** CASING **Unknown** LOGGING COMPLETED: **December 3, 2020**
 EOH: **25.45m** ELEVATION **338.0** CORE SIZE: **BQ** LOGGED BY: **Peter Hubacheck**

| FROM | TO | ROCK TYPE | CODE | DESCRIPTION | KIM TEXTURE | CLAST TYPE | MATRIX% | AUTO CLAST% | ZENO CLAST% | COLOUR |
|------|-------|--|--------|--|-----------------|-------------|---------|-------------|-------------|--------|
| 0 | 4.1 | OVERBURDEN | OB | OVERBURDEN: 2m cobbles , pebbles with no sand | | | | | | |
| 4.1 | 22.2 | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA | HVKBX | HETEROLITHIC VOLCANICLASTIC KIMBERLITE BRECCIA: matrix supported with 8 % mixed angular mafic / globular carbonate clasts ranging from 2 cm to .15m - 10% magmaclasts; few scattered mafic autoliths: 2%; fine grained tuffisitic, sandy homogenous matrix is light greenish brown colour with moderate calcite cement; microlitic. pelletal lapilli (.1mm-.2mm) in matrix 70%; chromite frosting on lapilli clasts; also fg nodular ilmenite/chromite grains are 15% of tan-coloured amorphous matrix; vuggy, open space porosity 5%; carbonate-rich tan-coloured xenoclasts are mainly globular with monticellite microcrysts 10%; tr% phlogopite microcrysts with 10% translucent tabular monticellite microcrysts; | Massive/Uniform | Crater Fill | 75 | | 15 | |
| 22.4 | 25.45 | NIPISSING DIABASE | NIPDIA | NIPDIA: Nipissing Diabase sill: fine grained to medium grained; med to dark gray; med grained fabric with massive equigranular texture; 35% aphanitic chloritic groundmass with 20% altered feldspar lathes; chloritic fracture slips from 22.7m to 22.9m | | | | | | |

DOWNHOLE SURVEY

| HOLE-ID | DEPTH | MAG AZIMUTH | MAGNETIC DECLINATION | AZIMUTH (TN) | DIP | SURVEY TYPE | MAGNETIC FIELD |
|--------------------|-------|-------------|----------------------|--------------|-----|-------------|----------------|
| No downhole survey | | | | | | | |

SAMPLING - Bulk Sample

| FROM | TO | INTERVAL (m) | BAG# | WEIGHT (Kg) |
|------|----|--------------|------|-------------|
| None | | | | |

Appendix C: Analytical Certificates



ANALYSIS REPORT YCN20-00066

To RJK EXPLORATIONS LTD
GLENN KASNER
4 AI WENDE AVE BOX 546
KIRKLAND LAKE P2N 3J5
ON
CANADA

| | | | |
|-------------------|-------------------------------------|------------------|---------------------------|
| Order Number | PO# Nipissing Shipment 3 | Date Received | 24-Sep-2020 |
| Submission Number | *BBY* Nipissing Shipment 3/ 27 Core | Date Analysed | 15-Oct-2020 - 27-Oct-2020 |
| Number of Samples | 27 | Date Completed | 27-Oct-2020 |
| | | SGS Order Number | YCN20-00066 |

Methods Summary

| <u>Number of Sample</u> | <u>Method Code</u> | <u>Description</u> |
|-------------------------|--------------------|---------------------------------------|
| 27 | GE_IMS90A50 | Na2O2 Fusion, HNO3, ICP-MS, 0.1g-50ml |

Authorised Signatory

John Chiang
Laboratory Operations
Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

27-Oct-2020 3:58PM BBM_U0004343570

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MIN-M_COA_ROW-Last Modified Date: 05-Nov-2019



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method | Ag GE_IMS90A50 1 200 ppm m / m | Al GE_IMS90A50 0.01 25 % | As GE_IMS90A50 3 10,000 ppm m / m | Ba GE_IMS90A50 10 10,000 ppm m / m | Be GE_IMS90A50 1 2,500 ppm m / m | Bi GE_IMS90A50 0.1 1,000 ppm m / m |
|----------------|--|--------------------------------------|---|--|--|--|
| P679124 | 2 | 6.56 | <3 | 747 | 3 | <0.1 |
| P679125 | 5 | 6.90 | <3 | 993 | 1 | <0.1 |
| P679126 | <1 | 7.32 | <3 | 912 | 1 | <0.1 |
| P679127 | 1 | 7.47 | <3 | 943 | 1 | <0.1 |
| P679128 | 2 | 7.26 | <3 | 968 | 1 | <0.1 |
| P679129 | 2 | 7.05 | <3 | 987 | 1 | <0.1 |
| P679130 | <1 | 7.09 | <3 | 1029 | 1 | <0.1 |
| P679131 | <1 | 7.07 | <3 | 1071 | 1 | <0.1 |
| P679132 | <1 | 7.10 | <3 | 1066 | 1 | <0.1 |
| P679133 | <1 | 6.99 | <3 | 798 | 1 | <0.1 |
| P679134 | <1 | 7.29 | <3 | 1010 | 1 | <0.1 |
| P679135 | <1 | 7.47 | <3 | 1025 | 1 | <0.1 |
| P679136 | <1 | 7.35 | <3 | 944 | 1 | <0.1 |
| P679137 | <1 | 7.43 | <3 | 985 | 1 | <0.1 |
| P679138 | <1 | 7.15 | <3 | 1008 | 1 | <0.1 |
| P679139 | <1 | 7.15 | <3 | 1011 | 1 | <0.1 |
| P679140 | <1 | 7.50 | <3 | 944 | 2 | <0.1 |
| P679141 | <1 | 7.14 | <3 | 984 | 2 | <0.1 |
| P679142 | <1 | 7.14 | <3 | 919 | 2 | <0.1 |
| P679143 | <1 | 7.43 | <3 | 1005 | 1 | <0.1 |
| P679144 | <1 | 7.04 | <3 | 1021 | 1 | <0.1 |
| P679145 | <1 | 7.51 | <3 | 1017 | 1 | <0.1 |
| P679146 | <1 | 6.73 | <3 | 1021 | 2 | <0.1 |
| P679147 | <1 | 7.17 | <3 | 919 | 2 | <0.1 |
| P679148 | <1 | 7.25 | <3 | 872 | 2 | <0.1 |
| P679149 | <1 | 6.08 | 8 | 565 | 3 | 2.7 |
| P679150 | <1 | 7.28 | <3 | 735 | 4 | 0.6 |
| *Bik BLANK | 2 | 0.02 | <3 | <10 | <1 | <0.1 |
| *Std OREAS 624 | 41 | 4.11 | 107 | 998 | <1 | 21.3 |
| *Std OREAS 520 | 8 | 5.64 | 146 | 7621 | 1 | 3.1 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method | Ag GE_IMS90A50 | Al GE_IMS90A50 | As GE_IMS90A50 | Ba GE_IMS90A50 | Be GE_IMS90A50 | Bi GE_IMS90A50 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 1 | 0.01 | 3 | 10 | 1 | 0.1 |
| Upper Limit | 200 | 25 | 10,000 | 10,000 | 2,500 | 1,000 |
| Unit | ppm m / m | % | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| *Blk BLANK | 2 | <0.01 | <3 | <10 | <1 | <0.1 |
| *Rep P679133 | <1 | 7.12 | <3 | 818 | 1 | <0.1 |

| Element Method | Ca GE_IMS90A50 | Cd GE_IMS90A50 | Co GE_IMS90A50 | Cr GE_IMS90A50 | Cs GE_IMS90A50 | Cu GE_IMS90A50 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.1 | 0.2 | 0.5 | 5 | 0.1 | 2 |
| Upper Limit | 25 | 10,000 | 10,000 | 10,000 | 10,000 | 50,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679124 | 0.2 | <0.2 | 2.8 | 13 | 3.7 | 31 |
| P679125 | 5.6 | <0.2 | 50.7 | 27 | 8.2 | 134 |
| P679126 | 5.6 | <0.2 | 51.7 | 19 | 11.8 | 126 |
| P679127 | 5.4 | <0.2 | 53.2 | 36 | 5.5 | 119 |
| P679128 | 5.5 | <0.2 | 54.6 | 42 | 4.1 | 126 |
| P679129 | 5.3 | <0.2 | 52.4 | 37 | 4.8 | 121 |
| P679130 | 5.6 | <0.2 | 50.5 | 35 | 3.3 | 128 |
| P679131 | 5.6 | <0.2 | 50.5 | 29 | 3.3 | 137 |
| P679132 | 5.5 | 0.2 | 45.9 | 22 | 7.0 | 127 |
| P679133 | 5.4 | 0.6 | 50.0 | 28 | 5.9 | 137 |
| P679134 | 5.6 | <0.2 | 50.4 | 33 | 3.7 | 127 |
| P679135 | 5.8 | <0.2 | 48.5 | 30 | 3.9 | 128 |
| P679136 | 5.4 | <0.2 | 46.6 | 34 | 3.6 | 117 |
| P679137 | 5.6 | <0.2 | 53.0 | 41 | 12.6 | 125 |
| P679138 | 5.5 | <0.2 | 51.8 | 38 | 4.5 | 126 |
| P679139 | 5.6 | <0.2 | 51.7 | 39 | 11.3 | 126 |
| P679140 | 5.7 | 0.2 | 53.7 | 41 | 38.7 | 129 |
| P679141 | 5.5 | 0.2 | 56.2 | 42 | 19.7 | 129 |
| P679142 | 5.9 | 0.3 | 53.3 | 38 | 25.7 | 130 |
| P679143 | 5.5 | <0.2 | 56.2 | 43 | 4.0 | 126 |
| P679144 | 5.4 | <0.2 | 54.4 | 39 | 11.0 | 131 |
| P679145 | 5.5 | <0.2 | 52.7 | 40 | 9.2 | 130 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method | Ca GE_IMS90A50 | Cd GE_IMS90A50 | Co GE_IMS90A50 | Cr GE_IMS90A50 | Cs GE_IMS90A50 | Cu GE_IMS90A50 |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.1 | 0.2 | 0.5 | 5 | 0.1 | 2 |
| Upper Limit | 25 | 10,000 | 10,000 | 10,000 | 10,000 | 50,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679146 | 7.9 | 0.5 | 48.0 | 37 | 23.6 | 126 |
| P679147 | 6.6 | 0.4 | 49.8 | 32 | 16.0 | 124 |
| P679148 | 6.9 | 0.4 | 46.3 | 27 | 18.5 | 120 |
| P679149 | 10.5 | 1.3 | 36.3 | 28 | 24.5 | 116 |
| P679150 | 0.6 | 0.2 | 2.5 | 15 | 6.9 | 8 |
| *Blk BLANK | <0.1 | <0.2 | <0.5 | <5 | <0.1 | <2 |
| *Std OREAS 624 | 1.5 | 126 | 268 | 28 | 1.1 | 29641 |
| *Std OREAS 520 | 4.5 | <0.2 | 198 | 41 | 0.7 | 2978 |
| *Blk BLANK | <0.1 | <0.2 | <0.5 | <5 | <0.1 | <2 |
| *Rep P679133 | 5.6 | 0.5 | 50.7 | 28 | 5.9 | 138 |

| Element Method | Fe GE_IMS90A50 | K GE_IMS90A50 | La GE_IMS90A50 | Li GE_IMS90A50 | Mg GE_IMS90A50 | Mn GE_IMS90A50 |
|--------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.01 | 0.1 | 0.1 | 5 | 0.01 | 10 |
| Upper Limit | 25 | 30 | 10,000 | 10,000 | 30 | 10,000 |
| Unit | % | % | ppm m / m | ppm m / m | % | ppm m / m |
| P679124 | 1.12 | 4.1 | 33.3 | 26 | 0.30 | 82 |
| P679125 | 12.32 | 1.1 | 30.9 | 27 | 2.72 | 1547 |
| P679126 | 13.11 | 1.2 | 28.4 | 40 | 2.98 | 1742 |
| P679127 | 12.83 | 1.1 | 26.3 | 27 | 3.13 | 1652 |
| P679128 | 13.21 | 1.0 | 27.4 | 15 | 3.19 | 1722 |
| P679129 | 12.76 | 1.0 | 29.1 | 13 | 3.12 | 1666 |
| P679130 | 13.03 | 1.1 | 30.5 | 18 | 2.95 | 1728 |
| P679131 | 13.19 | 1.2 | 33.4 | 25 | 2.90 | 1768 |
| P679132 | 12.51 | 1.2 | 33.9 | 42 | 2.70 | 1693 |
| P679133 | 13.37 | 1.0 | 31.3 | 49 | 3.11 | 1842 |
| P679134 | 12.83 | 1.2 | 30.3 | 30 | 2.90 | 1714 |
| P679135 | 12.59 | 1.2 | 31.0 | 28 | 2.88 | 1685 |
| P679136 | 11.93 | 1.2 | 28.6 | 18 | 2.91 | 1570 |
| P679137 | 13.23 | 1.0 | 27.5 | 10 | 3.16 | 1702 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method | Fe GE_IMS90A50 | K GE_IMS90A50 | La GE_IMS90A50 | Li GE_IMS90A50 | Mg GE_IMS90A50 | Mn GE_IMS90A50 |
|----------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.01 | 0.1 | 0.1 | 5 | 0.01 | 10 |
| Upper Limit | 25 | 30 | 10,000 | 10,000 | 30 | 10,000 |
| Unit | % | % | ppm m / m | ppm m / m | % | ppm m / m |
| P679138 | 12.43 | 1.1 | 29.0 | 18 | 3.01 | 1632 |
| P679139 | 12.79 | 1.2 | 29.3 | 37 | 2.82 | 1677 |
| P679140 | 11.80 | 1.5 | 28.6 | 57 | 2.93 | 1677 |
| P679141 | 12.38 | 1.3 | 29.6 | 48 | 2.89 | 1685 |
| P679142 | 12.25 | 1.2 | 30.5 | 67 | 3.12 | 1860 |
| P679143 | 13.46 | 1.2 | 28.5 | 30 | 3.14 | 1700 |
| P679144 | 12.93 | 1.2 | 30.5 | 40 | 3.02 | 1722 |
| P679145 | 13.18 | 1.2 | 30.3 | 38 | 3.09 | 1708 |
| P679146 | 12.02 | 1.2 | 29.2 | 63 | 2.98 | 2299 |
| P679147 | 12.16 | 1.2 | 30.3 | 68 | 2.73 | 1970 |
| P679148 | 12.08 | 1.2 | 29.2 | 60 | 2.43 | 2479 |
| P679149 | 9.98 | 1.0 | 28.3 | 84 | 2.09 | 3225 |
| P679150 | 1.28 | 4.0 | 38.7 | 30 | 0.36 | 176 |
| *Blk BLANK | 0.02 | <0.1 | <0.1 | <5 | <0.01 | <10 |
| *Std OREAS 624 | 16.23 | 0.8 | 16.6 | 9 | 1.29 | 672 |
| *Std OREAS 520 | 16.87 | 3.2 | 88.9 | 27 | 1.24 | 2386 |
| *Blk BLANK | <0.01 | <0.1 | <0.1 | <5 | <0.01 | <10 |
| *Rep P679133 | 13.65 | 1.0 | 31.4 | 50 | 3.18 | 1890 |

| Element Method | Mo GE_IMS90A50 | Ni GE_IMS90A50 | P GE_IMS90A50 | Pb GE_IMS90A50 | S GE_IMS90A50 | Sb GE_IMS90A50 |
|----------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|
| Lower Limit | 2 | 5 | 0.01 | 2 | 1 | 1 |
| Upper Limit | 10,000 | 50,000 | 25 | 50,000 | 25 | 10,000 |
| Unit | ppm m / m | ppm m / m | % | ppm m / m | % | ppm m / m |
| P679124 | <2 | <5 | 0.02 | 17 | <1 | <1 |
| P679125 | <2 | 45 | 0.48 | 8 | <1 | <1 |
| P679126 | <2 | 44 | 0.50 | 4 | <1 | <1 |
| P679127 | <2 | 57 | 0.44 | 4 | <1 | <1 |
| P679128 | <2 | 58 | 0.45 | 11 | <1 | <1 |
| P679129 | <2 | 55 | 0.46 | 4 | <1 | <1 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method Lower Limit Upper Limit Unit | Mo GE_IMS90A50 2 10,000 ppm m / m | Ni GE_IMS90A50 5 50,000 ppm m / m | P GE_IMS90A50 0.01 25 % | Pb GE_IMS90A50 2 50,000 ppm m / m | S GE_IMS90A50 1 25 % | Sb GE_IMS90A50 1 10,000 ppm m / m |
|---|---|---|-------------------------------------|---|----------------------------------|---|
| P679130 | <2 | 49 | 0.50 | 6 | <1 | <1 |
| P679131 | <2 | 44 | 0.56 | 6 | <1 | <1 |
| P679132 | <2 | 43 | 0.53 | 5 | <1 | <1 |
| P679133 | <2 | 46 | 0.52 | 5 | <1 | <1 |
| P679134 | <2 | 47 | 0.51 | 8 | <1 | <1 |
| P679135 | <2 | 45 | 0.54 | 14 | <1 | <1 |
| P679136 | <2 | 52 | 0.47 | 10 | <1 | <1 |
| P679137 | <2 | 57 | 0.47 | 5 | <1 | <1 |
| P679138 | <2 | 55 | 0.47 | 5 | <1 | <1 |
| P679139 | <2 | 53 | 0.48 | 10 | <1 | <1 |
| P679140 | <2 | 56 | 0.50 | 17 | <1 | <1 |
| P679141 | <2 | 58 | 0.49 | 12 | <1 | <1 |
| P679142 | <2 | 55 | 0.51 | 43 | <1 | <1 |
| P679143 | <2 | 60 | 0.47 | 3 | <1 | <1 |
| P679144 | <2 | 57 | 0.50 | 3 | <1 | <1 |
| P679145 | <2 | 53 | 0.49 | 3 | <1 | <1 |
| P679146 | <2 | 63 | 0.44 | 62 | <1 | <1 |
| P679147 | <2 | 53 | 0.48 | 44 | <1 | <1 |
| P679148 | <2 | 46 | 0.48 | 134 | <1 | <1 |
| P679149 | <2 | 40 | 0.42 | 269 | <1 | <1 |
| P679150 | <2 | <5 | 0.02 | 90 | <1 | <1 |
| *Blk BLANK | <2 | <5 | <0.01 | 3 | <1 | <1 |
| *Std OREAS 624 | 16 | 17 | 0.05 | 6011 | 13 | 69 |
| *Std OREAS 520 | 63 | 72 | 0.07 | 9 | <1 | 3 |
| *Blk BLANK | <2 | <5 | <0.01 | 4 | <1 | <1 |
| *Rep P679133 | <2 | 46 | 0.53 | 5 | <1 | <1 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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MIN-M_COA_ROW-Last Modified Date: 05-Nov-2019



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element Method | Si GE_IMS90A50 | Sn GE_IMS90A50 | Sr GE_IMS90A50 | Te GE_IMS90A50 | Ti GE_IMS90A50 | V GE_IMS90A50 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Lower Limit | 0.1 | 1 | 10 | 1 | 0.01 | 5 |
| Upper Limit | 40 | 10,000 | 10,000 | 1,000 | 30 | 10,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | % | ppm m / m |
| P679124 | 30.8 | 1 | 92 | <1 | 0.10 | 11 |
| P679125 | 20.0 | 1 | 456 | <1 | 2.50 | 319 |
| P679126 | 21.0 | 1 | 473 | <1 | 2.54 | 321 |
| P679127 | 21.2 | <1 | 511 | <1 | 2.42 | 340 |
| P679128 | 20.9 | 1 | 482 | <1 | 2.53 | 340 |
| P679129 | 19.9 | 1 | 458 | <1 | 2.46 | 323 |
| P679130 | 20.9 | 1 | 469 | <1 | 2.50 | 306 |
| P679131 | 21.5 | 1 | 463 | <1 | 2.59 | 285 |
| P679132 | 20.8 | 1 | 467 | <1 | 2.48 | 254 |
| P679133 | 20.6 | 1 | 424 | <1 | 2.61 | 283 |
| P679134 | 21.2 | 1 | 502 | <1 | 2.53 | 295 |
| P679135 | 21.7 | 1 | 510 | <1 | 2.47 | 284 |
| P679136 | 21.7 | <1 | 472 | <1 | 2.28 | 275 |
| P679137 | 21.0 | <1 | 493 | <1 | 2.58 | 329 |
| P679138 | 20.6 | 2 | 486 | <1 | 2.42 | 305 |
| P679139 | 20.9 | 1 | 507 | <1 | 2.52 | 303 |
| P679140 | 21.0 | 1 | 483 | <1 | 2.57 | 322 |
| P679141 | 20.4 | 1 | 475 | <1 | 2.52 | 328 |
| P679142 | 20.0 | 1 | 468 | <1 | 2.46 | 310 |
| P679143 | 21.3 | <1 | 485 | <1 | 2.52 | 335 |
| P679144 | 21.1 | 1 | 498 | <1 | 2.57 | 323 |
| P679145 | 21.3 | 1 | 507 | <1 | 2.56 | 314 |
| P679146 | 19.0 | <1 | 449 | <1 | 2.26 | 283 |
| P679147 | 20.3 | 1 | 442 | <1 | 2.42 | 289 |
| P679148 | 20.2 | 1 | 432 | <1 | 2.47 | 299 |
| P679149 | 16.8 | <1 | 295 | <1 | 2.11 | 265 |
| P679150 | 35.4 | 1 | 124 | <1 | 0.12 | 13 |
| *Blk BLANK | <0.1 | <1 | <10 | <1 | <0.01 | <5 |
| *Std OREAS 624 | 20.4 | 15 | 38 | <1 | 0.16 | 33 |
| *Std OREAS 520 | 20.5 | 5 | 104 | <1 | 0.58 | 281 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

27-Oct-2020 3:58PM BBM_U0004343570

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MIN-M_COA_ROW-Last Modified Date: 05-Nov-2019



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element | Si | Sn | Sr | Te | Ti | V |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Method | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 |
| Lower Limit | 0.1 | 1 | 10 | 1 | 0.01 | 5 |
| Upper Limit | 40 | 10,000 | 10,000 | 1,000 | 30 | 10,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | % | ppm m / m |
| *Blk BLANK | <0.1 | <1 | <10 | <1 | <0.01 | <5 |
| *Rep P679133 | 21.1 | 1 | 435 | <1 | 2.74 | 296 |

| Element | W | Y | Yb | Zn |
|-------------|-------------|-------------|-------------|-------------|
| Method | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 |
| Lower Limit | 5 | 0.5 | 0.1 | 5 |
| Upper Limit | 10,000 | 10,000 | 1,000 | 50,000 |
| Unit | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679124 | <5 | 8.9 | 0.8 | 9 |
| P679125 | <5 | 35.7 | 3.1 | 275 |
| P679126 | <5 | 35.6 | 2.9 | 269 |
| P679127 | <5 | 31.6 | 2.6 | 239 |
| P679128 | <5 | 32.7 | 2.8 | 245 |
| P679129 | <5 | 33.1 | 2.9 | 247 |
| P679130 | <5 | 35.9 | 3.1 | 255 |
| P679131 | <5 | 39.8 | 3.2 | 264 |
| P679132 | <5 | 39.5 | 3.4 | 255 |
| P679133 | <5 | 37.6 | 3.1 | 409 |
| P679134 | <5 | 36.9 | 3.0 | 256 |
| P679135 | <5 | 37.9 | 2.9 | 246 |
| P679136 | <5 | 35.1 | 2.9 | 228 |
| P679137 | <5 | 32.4 | 2.8 | 250 |
| P679138 | <5 | 34.5 | 2.8 | 244 |
| P679139 | <5 | 35.2 | 2.9 | 244 |
| P679140 | <5 | 34.0 | 2.7 | 250 |
| P679141 | <5 | 33.9 | 2.9 | 256 |
| P679142 | <5 | 35.0 | 2.9 | 276 |
| P679143 | <5 | 34.1 | 3.0 | 248 |
| P679144 | <5 | 36.5 | 3.0 | 261 |
| P679145 | <5 | 35.3 | 2.9 | 255 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Number of Samples

PO# Nipissing Shipment 3
BBY Nipissing Shipment 3/ 27 Core
27

ANALYSIS REPORT YCN20-00066

| Element | W | Y | Yb | Zn |
|----------------|-------------|-------------|-------------|-------------|
| Method | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 |
| Lower Limit | 5 | 0.5 | 0.1 | 5 |
| Upper Limit | 10,000 | 10,000 | 1,000 | 50,000 |
| Unit | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679146 | <5 | 32.9 | 2.8 | 363 |
| P679147 | <5 | 34.4 | 2.8 | 298 |
| P679148 | <5 | 35.5 | 2.8 | 305 |
| P679149 | <5 | 32.6 | 2.7 | 700 |
| P679150 | <5 | 9.7 | 0.8 | 97 |
| *Blk BLANK | <5 | <0.5 | <0.1 | <5 |
| *Std OREAS 624 | <5 | 16.7 | 1.9 | 23012 |
| *Std OREAS 520 | 44 | 22.2 | 2.2 | 50 |
| *Blk BLANK | <5 | <0.5 | <0.1 | <5 |
| *Rep P679133 | <5 | 37.9 | 3.4 | 426 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



ANALYSIS REPORT YCN20-00067

To RJK EXPLORATIONS LTD
GLENN KASNER
4 AI WENDE AVE BOX 546
KIRKLAND LAKE P2N 3J5
ON
CANADA

| | | | |
|-------------------|--------------------------------------|------------------|---------------------------|
| Order Number | PO:Nipissing Shipment #2 | Date Received | 02-Sep-2020 |
| Submission Number | *BBY* Nipissing Shipment 2/ 24 Pulps | Date Analysed | 03-Oct-2020 - 08-Oct-2020 |
| Number of Samples | 24 | Date Completed | 08-Oct-2020 |
| | | SGS Order Number | YCN20-00067 |

Methods Summary

| <u>Number of Sample</u> | <u>Method Code</u> | <u>Description</u> |
|-------------------------|--------------------|---------------------------------------|
| 24 | GE_IMS90A50 | Na2O2 Fusion, HNO3, ICP-MS, 0.1g-50ml |

Authorised Signatory

John Chiang
Laboratory Operations
Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

8-Oct-2020 12:26PM BBM_U0004021853

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MIN-M_COA_ROW-Last Modified Date: 05-Nov-2019



Order Number PO:Nipissing Shipment #2
 Submission Number *BBY* Nipissing Shipment 2/ 24
 Pulps
 Number of Samples 24

ANALYSIS REPORT YCN20-00067

| Element | Ag | Al | As | Ba | Be | Bi |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Method | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 |
| Lower Limit | 1 | 0.01 | 3 | 10 | 1 | 0.1 |
| Upper Limit | 200 | 25 | 10,000 | 10,000 | 2,500 | 1,000 |
| Unit | ppm m / m | % | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679101 | <1 | 7.15 | <3 | 328 | 3 | 0.5 |
| P679102 | <1 | 6.83 | 14 | 343 | 2 | 0.6 |
| P679103 | <1 | 7.00 | 4 | 282 | 1 | 0.2 |
| P679104 | <1 | 6.39 | 3 | 217 | 1 | 0.1 |
| P679105 | 1 | 5.80 | <3 | 82 | 1 | 0.2 |
| P679106 | <1 | 6.74 | <3 | 308 | <1 | 0.1 |
| P679107 | <1 | 6.77 | <3 | 300 | <1 | 0.2 |
| P679108 | <1 | 7.09 | <3 | 320 | <1 | 0.1 |
| P679109 | <1 | 6.98 | <3 | 376 | 1 | 0.1 |
| P679110 | <1 | 7.28 | 5 | 352 | 2 | 0.2 |
| P679111 | <1 | 7.33 | 7 | 341 | 2 | 0.7 |
| P679112 | <1 | 7.44 | 4 | 410 | 3 | 0.4 |
| P679113 | <1 | 7.32 | <3 | 535 | 3 | 0.2 |
| P679114 | <1 | 7.63 | <3 | 932 | 2 | <0.1 |
| P679115 | <1 | 7.35 | <3 | 920 | 1 | <0.1 |
| P679116 | <1 | 7.52 | <3 | 836 | 1 | 0.3 |
| P679117 | <1 | 6.65 | <3 | 721 | 2 | <0.1 |
| P679118 | <1 | 7.13 | <3 | 895 | 2 | 0.1 |
| P679119 | <1 | 7.83 | <3 | 911 | 1 | <0.1 |
| P679120 | <1 | 7.58 | <3 | 878 | 1 | <0.1 |
| P679121 | <1 | 7.28 | <3 | 837 | 3 | <0.1 |
| P679122 | <1 | 3.39 | 20 | 254 | 10 | 0.7 |
| P679123 | <1 | 7.58 | <3 | 723 | 3 | 0.1 |
| DDH PP-20-04 | <1 | 7.53 | <3 | 415 | 3 | 0.1 |
| *Bik BLANK | 1 | <0.01 | <3 | <10 | <1 | <0.1 |
| *Rep P679107 | <1 | 6.94 | 3 | 307 | <1 | 0.2 |
| *Std OREAS 624 | 44 | 4.31 | 111 | 996 | <1 | 20.6 |
| *Std OREAS 520 | <1 | 5.90 | 152 | 7948 | 1 | 2.9 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Pulps
Number of Samples

PO:Nipissing Shipment #2
BBY Nipissing Shipment 2/ 24
24

ANALYSIS REPORT YCN20-00067

| Element Method | Ca GE_IMS90A50 | Cd GE_IMS90A50 | Co GE_IMS90A50 | Cr GE_IMS90A50 | Cs GE_IMS90A50 | Cu GE_IMS90A50 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.1 | 0.2 | 0.5 | 5 | 0.1 | 2 |
| Upper Limit | 25 | 10,000 | 10,000 | 10,000 | 10,000 | 50,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679101 | 1.3 | <0.2 | 13.3 | 33 | 2.2 | 67 |
| P679102 | 4.1 | <0.2 | 62.2 | 99 | 11.8 | 144 |
| P679103 | 4.2 | <0.2 | 56.1 | 104 | 6.8 | 150 |
| P679104 | 5.2 | 0.3 | 50.8 | 86 | 3.9 | 122 |
| P679105 | 4.7 | 30.5 | 69.2 | 109 | 3.6 | 457 |
| P679106 | 5.8 | 1.4 | 54.2 | 111 | 5.4 | 129 |
| P679107 | 5.2 | <0.2 | 56.1 | 111 | 6.0 | 134 |
| P679108 | 4.8 | <0.2 | 57.9 | 105 | 6.0 | 135 |
| P679109 | 4.2 | 0.2 | 54.2 | 132 | 6.3 | 143 |
| P679110 | 3.5 | <0.2 | 57.8 | 101 | 9.1 | 148 |
| P679111 | 3.0 | 0.2 | 35.7 | 76 | 7.0 | 100 |
| P679112 | 0.4 | <0.2 | 6.0 | 20 | 1.8 | 92 |
| P679113 | 0.4 | <0.2 | 7.2 | 33 | 1.7 | 175 |
| P679114 | 4.4 | 1.1 | 57.9 | 37 | 6.9 | 157 |
| P679115 | 5.1 | 0.4 | 52.8 | 28 | 9.4 | 159 |
| P679116 | 4.8 | 0.3 | 57.6 | 32 | 8.1 | 151 |
| P679117 | 9.2 | 0.4 | 50.3 | 44 | 7.2 | 141 |
| P679118 | 7.3 | 0.3 | 50.9 | 40 | 5.0 | 147 |
| P679119 | 5.8 | 0.4 | 52.8 | 37 | 5.9 | 152 |
| P679120 | 5.8 | 0.3 | 58.2 | 48 | 6.1 | 155 |
| P679121 | 7.4 | 0.3 | 57.7 | 62 | 6.4 | 147 |
| P679122 | 21.6 | 0.4 | 22.3 | 28 | 6.3 | 89 |
| P679123 | 0.5 | <0.2 | 5.5 | 30 | 1.9 | 40 |
| DDH PP-20-04 | 0.4 | <0.2 | 4.2 | 45 | 1.7 | 27 |
| *Blk BLANK | <0.1 | 0.3 | <0.5 | <5 | <0.1 | 4 |
| *Rep P679107 | 5.4 | <0.2 | 57.4 | 108 | 6.1 | 134 |
| *Std OREAS 624 | 1.3 | 130 | 270 | 40 | 1.1 | 32700 |
| *Std OREAS 520 | 3.9 | <0.2 | 210 | 46 | 0.7 | 3046 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Pulps
Number of Samples

PO:Nipissing Shipment #2
BBY Nipissing Shipment 2/ 24
24

ANALYSIS REPORT YCN20-00067

| Element Method | Fe GE_IMS90A50 | K GE_IMS90A50 | La GE_IMS90A50 | Li GE_IMS90A50 | Mg GE_IMS90A50 | Mn GE_IMS90A50 |
|----------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| Lower Limit | 0.01 | 0.1 | 0.1 | 5 | 0.01 | 10 |
| Upper Limit | 25 | 30 | 10,000 | 10,000 | 30 | 10,000 |
| Unit | % | % | ppm m / m | ppm m / m | % | ppm m / m |
| P679101 | 3.17 | 2.9 | 38.2 | 20 | 1.24 | 625 |
| P679102 | 9.91 | 1.6 | 24.0 | 57 | 3.27 | 1606 |
| P679103 | 10.33 | 1.2 | 22.3 | 29 | 2.98 | 1706 |
| P679104 | 10.35 | 0.7 | 22.5 | 23 | 3.43 | 2018 |
| P679105 | 11.49 | 0.2 | 29.9 | 45 | 4.92 | 2186 |
| P679106 | 10.18 | 1.1 | 20.7 | 25 | 3.20 | 1980 |
| P679107 | 10.59 | 1.1 | 21.8 | 22 | 3.02 | 1886 |
| P679108 | 10.98 | 1.3 | 24.0 | 32 | 3.34 | 1787 |
| P679109 | 10.23 | 1.5 | 22.2 | 34 | 3.15 | 1615 |
| P679110 | 9.85 | 2.0 | 25.6 | 56 | 3.63 | 1481 |
| P679111 | 6.47 | 2.2 | 26.0 | 35 | 2.23 | 1345 |
| P679112 | 1.82 | 3.8 | 39.1 | 15 | 0.74 | 278 |
| P679113 | 1.71 | 3.8 | 32.9 | 15 | 0.58 | 173 |
| P679114 | 11.43 | 1.7 | 30.9 | 32 | 2.76 | 1424 |
| P679115 | 12.91 | 1.3 | 28.9 | 24 | 2.85 | 1708 |
| P679116 | 12.90 | 1.3 | 27.9 | 23 | 2.93 | 1722 |
| P679117 | 11.29 | 1.1 | 28.2 | 18 | 2.10 | 2038 |
| P679118 | 11.85 | 1.3 | 32.8 | 18 | 2.28 | 1945 |
| P679119 | 12.52 | 1.3 | 28.1 | 19 | 2.49 | 1771 |
| P679120 | 12.95 | 1.2 | 26.6 | 16 | 2.69 | 1760 |
| P679121 | 10.88 | 1.2 | 29.3 | 22 | 1.69 | 2040 |
| P679122 | 6.46 | 0.5 | 29.5 | 12 | 0.62 | 2256 |
| P679123 | 1.83 | 4.6 | 46.8 | 16 | 0.70 | 257 |
| DDH PP-20-04 | 1.59 | 3.6 | 49.4 | 15 | 0.56 | 184 |
| *Bik BLANK | <0.01 | <0.1 | <0.1 | <5 | <0.01 | <10 |
| *Rep P679107 | 10.62 | 1.1 | 22.1 | 22 | 3.04 | 1922 |
| *Std OREAS 624 | 16.37 | 0.9 | 16.1 | 9 | 1.29 | 634 |
| *Std OREAS 520 | 17.37 | 3.3 | 85.4 | 16 | 1.25 | 2445 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Pulps
Number of Samples

PO:Nipissing Shipment #2
BBY Nipissing Shipment 2/ 24
24

ANALYSIS REPORT YCN20-00067

| Element Method | Mo GE_IMS90A50 | Ni GE_IMS90A50 | P GE_IMS90A50 | Pb GE_IMS90A50 | S GE_IMS90A50 | Sb GE_IMS90A50 |
|----------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|
| Lower Limit | 2 | 5 | 0.01 | 2 | 1 | 1 |
| Upper Limit | 10,000 | 50,000 | 25 | 50,000 | 25 | 10,000 |
| Unit | ppm m / m | ppm m / m | % | ppm m / m | % | ppm m / m |
| P679101 | <2 | 13 | 0.04 | 133 | <1 | <1 |
| P679102 | <2 | 51 | 0.09 | 13 | <1 | <1 |
| P679103 | <2 | 52 | 0.08 | 10 | <1 | <1 |
| P679104 | <2 | 54 | 0.07 | 126 | <1 | <1 |
| P679105 | <2 | 135 | 0.06 | 404 | <1 | <1 |
| P679106 | <2 | 55 | 0.07 | 103 | <1 | <1 |
| P679107 | <2 | 53 | 0.08 | 15 | <1 | <1 |
| P679108 | <2 | 54 | 0.09 | 9 | <1 | <1 |
| P679109 | <2 | 61 | 0.08 | 8 | <1 | <1 |
| P679110 | <2 | 55 | 0.09 | 32 | <1 | <1 |
| P679111 | <2 | 42 | 0.06 | 79 | <1 | <1 |
| P679112 | <2 | 5 | 0.04 | 16 | <1 | <1 |
| P679113 | <2 | <5 | 0.04 | 19 | <1 | <1 |
| P679114 | <2 | 58 | 0.43 | 6 | <1 | <1 |
| P679115 | <2 | 48 | 0.43 | 6 | <1 | <1 |
| P679116 | <2 | 56 | 0.42 | 6 | <1 | <1 |
| P679117 | <2 | 54 | 0.36 | 7 | <1 | <1 |
| P679118 | <2 | 53 | 0.39 | 21 | <1 | <1 |
| P679119 | <2 | 51 | 0.42 | 5 | <1 | <1 |
| P679120 | <2 | 61 | 0.40 | 6 | <1 | <1 |
| P679121 | <2 | 79 | 0.40 | 8 | <1 | <1 |
| P679122 | <2 | 34 | 0.19 | 23 | <1 | <1 |
| P679123 | <2 | 9 | 0.03 | 13 | <1 | <1 |
| DDH PP-20-04 | <2 | <5 | 0.03 | 7 | <1 | <1 |
| *Blk BLANK | <2 | <5 | <0.01 | <2 | <1 | <1 |
| *Rep P679107 | <2 | 55 | 0.08 | 18 | <1 | <1 |
| *Std OREAS 624 | 16 | 22 | 0.04 | 5856 | 11 | 67 |
| *Std OREAS 520 | 61 | 72 | 0.06 | 8 | <1 | 3 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number
Submission Number
Pulps
Number of Samples

PO:Nipissing Shipment #2
BBY Nipissing Shipment 2/ 24
24

ANALYSIS REPORT YCN20-00067

| Element Method | Si GE_IMS90A50 | Sn GE_IMS90A50 | Sr GE_IMS90A50 | Te GE_IMS90A50 | Ti GE_IMS90A50 | V GE_IMS90A50 |
|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Lower Limit | 0.1 | 1 | 10 | 1 | 0.01 | 5 |
| Upper Limit | 40 | 10,000 | 10,000 | 1,000 | 30 | 10,000 |
| Unit | % | ppm m / m | ppm m / m | ppm m / m | % | ppm m / m |
| P679101 | 33.9 | 1 | 58 | <1 | 0.26 | 68 |
| P679102 | 23.5 | 1 | 196 | <1 | 0.99 | 353 |
| P679103 | 23.6 | <1 | 191 | <1 | 0.97 | 348 |
| P679104 | 22.2 | <1 | 157 | <1 | 0.95 | 348 |
| P679105 | 20.5 | <1 | 65 | <1 | 0.86 | 457 |
| P679106 | 22.2 | <1 | 213 | <1 | 0.88 | 324 |
| P679107 | 22.9 | <1 | 217 | <1 | 0.94 | 337 |
| P679108 | 24.3 | <1 | 223 | <1 | 0.96 | 346 |
| P679109 | 23.3 | <1 | 229 | <1 | 0.96 | 344 |
| P679110 | 23.6 | 1 | 169 | <1 | 1.05 | 365 |
| P679111 | 28.7 | 1 | 116 | <1 | 0.64 | 215 |
| P679112 | 34.5 | 1 | 73 | <1 | 0.15 | 27 |
| P679113 | 35.1 | <1 | 91 | <1 | 0.14 | 21 |
| P679114 | 22.2 | 1 | 404 | <1 | 2.26 | 329 |
| P679115 | 21.0 | 1 | 450 | <1 | 2.27 | 335 |
| P679116 | 21.1 | 1 | 412 | <1 | 2.20 | 322 |
| P679117 | 18.4 | <1 | 404 | <1 | 2.01 | 316 |
| P679118 | 20.0 | <1 | 446 | <1 | 2.07 | 312 |
| P679119 | 20.9 | 1 | 470 | <1 | 2.25 | 319 |
| P679120 | 21.1 | 1 | 467 | <1 | 2.25 | 343 |
| P679121 | 18.0 | <1 | 442 | <1 | 2.15 | 330 |
| P679122 | 8.2 | <1 | 219 | <1 | 1.00 | 147 |
| P679123 | 34.7 | 1 | 82 | <1 | 0.14 | 22 |
| DDH PP-20-04 | 33.5 | 1 | 80 | <1 | 0.13 | 19 |
| *Blk BLANK | <0.1 | <1 | <10 | <1 | <0.01 | <5 |
| *Rep P679107 | 23.1 | <1 | 221 | <1 | 0.96 | 340 |
| *Std OREAS 624 | 20.6 | 15 | 33 | <1 | 0.14 | 33 |
| *Std OREAS 520 | 21.1 | 5 | 92 | <1 | 0.50 | 294 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number PO:Nipissing Shipment #2
 Submission Number *BBY* Nipissing Shipment 2/ 24
 Pulps
 Number of Samples 24

ANALYSIS REPORT YCN20-00067

| Element | W | Y | Yb | Zn |
|----------------|-------------|-------------|-------------|-------------|
| Method | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 | GE_IMS90A50 |
| Lower Limit | 5 | 0.5 | 0.1 | 5 |
| Upper Limit | 10,000 | 10,000 | 1,000 | 50,000 |
| Unit | ppm m / m | ppm m / m | ppm m / m | ppm m / m |
| P679101 | <5 | 16.0 | 1.4 | 94 |
| P679102 | <5 | 28.1 | 2.8 | 159 |
| P679103 | <5 | 28.9 | 2.8 | 154 |
| P679104 | <5 | 30.0 | 3.0 | 269 |
| P679105 | <5 | 35.0 | 3.8 | 8438 |
| P679106 | <5 | 28.1 | 2.7 | 446 |
| P679107 | <5 | 29.4 | 2.8 | 171 |
| P679108 | <5 | 31.2 | 2.9 | 172 |
| P679109 | <5 | 28.7 | 2.5 | 162 |
| P679110 | <5 | 29.9 | 2.8 | 181 |
| P679111 | <5 | 23.7 | 2.3 | 153 |
| P679112 | <5 | 12.4 | 1.2 | 38 |
| P679113 | <5 | 11.8 | 0.9 | 29 |
| P679114 | <5 | 35.4 | 2.8 | 353 |
| P679115 | <5 | 36.4 | 3.0 | 251 |
| P679116 | <5 | 34.7 | 2.9 | 230 |
| P679117 | <5 | 33.0 | 2.7 | 264 |
| P679118 | <5 | 34.6 | 2.8 | 229 |
| P679119 | <5 | 34.7 | 2.9 | 250 |
| P679120 | <5 | 33.2 | 2.6 | 237 |
| P679121 | <5 | 34.2 | 2.8 | 238 |
| P679122 | <5 | 31.9 | 2.2 | 107 |
| P679123 | <5 | 12.7 | 1.1 | 31 |
| DDH PP-20-04 | <5 | 11.7 | 1.2 | 24 |
| *Blk BLANK | <5 | 0.6 | <0.1 | <5 |
| *Rep P679107 | <5 | 30.0 | 2.9 | 177 |
| *Std OREAS 624 | <5 | 17.0 | 1.8 | 23284 |
| *Std OREAS 520 | 44 | 22.2 | 2.2 | 51 |

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



ISO 9001:2015
ISO 17025:2005



C.F. MINERAL RESEARCH LIMITED

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C.F. Mineral Research Ltd.'s Diamond Classifications of Submitted Electron Microprobe Analyses

Source : C.F. Mineral Research Ltd. EPMA
Status : BASE: AD87
Project : DD16

File Name : PRB9547
Analyses: 89
Date : 3 December 2020

Caveats and explanations:

- Any '#' symbol identifies analyses where the total is outside the range of 98.5 and 101.0 despite repeated analyses. This may affect the quality and reliability of the classifications.
- Any '*' symbol identifies samples where no grains were found (by picking/scanning) worthy of analysing from the whole sample. No asterisk is shown if at least one (or more) grain(s) from the sample was analysed.
- Any 'D' symbol identifies duplicate analytical descriptions.
- Any 'i' symbol identifies a grain with an intergrowth.
- The Mars/Cart rock classification (using chromite analysis) assumes the presence of, and good quality analyte values of MnO, NiO and ZnO values.
- The Mars/Cart 'n' symbol identifies analyses that cannot classify due to
 - (i) lacking all required analytes
 - or (ii) possessing any analyte with a value <0.0001
- The Mars/Cart T(Zn) can include extreme, but useful, values outside the calibrated ranges
- The Mars/Cart '+' symbol identifies T(Zn) within the diamond stability range of -950-1250°C
- The results of any geothermobarometry obtained from suitable CPXs are reported at the end of the DI field.
- Please see document titled "Legend of Electron Microprobe Compositional Classifications (Version 4.812)" for further explanations.

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:15 pm

File: Prb9547.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----------|-----------|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|--------|--------|------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T(Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total | |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-08 | -32+80HPY | 7607 | 21 | 403 | OLV | | | | 40.89 | .03 | 0.00 | | .00 | | 9.80 | 48.44 | .03 | .14 | .34 | | | | | 0.00 | | 0.00 | 99.66 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 504 | OLV | | | | 40.15 | .01 | .01 | | 0.00 | | 12.25 | 47.09 | .03 | .19 | .24 | | | | | .02 | | .00 | 100.00 | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 406 | OLV-FORS | | | | 41.43 | .01 | .01 | | 0.00 | | 6.83 | 51.86 | .01 | .11 | .35 | | | | | .01 | | 0.00 | 100.62 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 301 | OLV-FORS | | | | 40.68 | .04 | .03 | | .07 | | 9.61 | 49.27 | .08 | .14 | .39 | | | | | .00 | | 0.00 | 100.32 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 307 | OLV-FORS | | | | 40.87 | .01 | .01 | | .00 | | 9.48 | 49.37 | .02 | .16 | .32 | | | | | .00 | | .00 | 100.25 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 308 | OLV-FORS | | | | 41.38 | 0.00 | 0.00 | | .05 | | 6.11 | 52.64 | .00 | .09 | .40 | | | | | 0.00 | | .00 | 100.68 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 314 | OLV-FORS | | | | 41.23 | 0.00 | .01 | | 0.00 | | 8.22 | 50.53 | .02 | .15 | .36 | | | | | 0.00 | | 0.00 | 100.52 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 405 | OLV-FORS | | | | 41.17 | .02 | .02 | | .08 | | 8.11 | 49.94 | .08 | .11 | .39 | | | | | .01 | | 0.00 | 99.93 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 406 | OLV-FORS | | | | 41.09 | .02 | .04 | | .10 | | 7.87 | 50.85 | .08 | .12 | .39 | | | | | .02 | | 0.00 | 100.58 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 407 | OLV-FORS | | | | 41.05 | .03 | .01 | | .01 | | 8.71 | 49.88 | .04 | .10 | .35 | | | | | .01 | | .00 | 100.19 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 414 | OLV-FORS | | | | 41.19 | 0.00 | .00 | | .01 | | 7.95 | 50.96 | .02 | .15 | .32 | | | | | 0.00 | | 0.00 | 100.59 | |
| PP-20-08 | -32+80HIL | 7607 | 30 | 702 | CR | | | U K | 849 | .02 | 1.03 | 7.37 | .23 | 50.38 | 12.00 | 19.46 | 9.16 | 0.00 | .38 | .15 | .11 | | | | | | 100.30 | |
| PP-20-08 | -32+80HIL | 7607 | 30 | 710 | CR | | | L L | 751 | .01 | .01 | 15.46 | .24 | 53.16 | 3.37 | 12.86 | 13.66 | .00 | .29 | .06 | .16 | | | | | | 99.28 | |
| PP-20-08 | -32+80HIL | 7607 | 30 | 711 | CR | | | L L | | .11 | .27 | 13.08 | .14 | 54.95 | 5.17 | 11.17 | 14.97 | .00 | .25 | .20 | .03 | | | | | | 100.32 | |
| PP-20-08 | -32+80HIL | 7607 | 30 | 801 | CR | | | L L | 1098+ | .14 | .27 | 13.18 | .15 | 54.04 | 5.51 | 11.68 | 14.61 | .00 | .27 | .16 | .06 | | | | | | 100.07 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 403 | OLV-FORS | DI | | | 41.38 | .01 | .01 | | .00 | | 6.56 | 51.75 | .00 | .10 | .39 | | | | | 0.00 | | .01 | 100.21 | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 402 | OLV-FORS | DI* | | | 41.34 | 0.00 | .01 | | .01 | | 6.55 | 52.03 | .01 | .09 | .36 | | | | | 0.00 | | .01 | 100.40 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 303 | OLV-FORS | DI* | | | 41.24 | .01 | .01 | | .01 | | 7.12 | 50.24 | .01 | .11 | .30 | | | | | .01 | | .00 | 99.06 | |
| PP-20-08 | -32+80HPY | 7607 | 30 | 411 | OLV-FORS | DI* | | | 41.21 | .02 | .02 | | .06 | | 7.83 | 50.75 | .07 | .11 | .40 | | | | | .04 | | 0.00 | 100.48 | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 601 | CP | CP6 | | -- | 54.18 | .19 | .52 | | 2.16 | | 3.40 | 15.49 | 21.62 | .10 | .03 | | | | 1.76 | | 0.00 | 99.45 | | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 701 | CP | CPX | | -- | 53.41 | .37 | .95 | | .56 | | 5.69 | 17.06 | 21.29 | .13 | .08 | | | | .39 | | .00 | 99.93 | | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 414 | CP | CP5 | | Gr | 54.67 | .31 | 3.27 | | 1.52 | | 2.49 | 15.28 | 20.03 | .10 | .04 | | | | 2.58 | | 0.00 | 100.28 | | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 808 | CP | CP5 | | G2/D10 | 54.60 | .07 | .38 | | 2.72 | | 2.11 | 15.59 | 21.99 | .07 | .02 | | | | 1.84 | | 0.00 | 99.40 | | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 405 | E | G 9 | | G2 | 42.01 | .50 | 23.15 | | .21 | | 9.15 | 17.41 | 8.20 | .25 | .02 | | | | .041 | | 0.00 | 100.95 | | |
| PP-20-08 | -32+80HPY | 7607 | 21 | 111 | P | G 9 | | | 42.00 | 0.00 | 21.13 | | 4.37 | | 7.13 | 18.98 | 6.23 | .47 | .01 | | | | .01 | | 0.00 | 100.33 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 409 | P | G10-2 | | | 41.83 | .08 | 20.24 | | 5.11 | | 7.31 | 20.09 | 4.53 | .48 | .02 | | | | .04 | | .00 | 99.75 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 910 | P | G10-2 | | | 41.71 | .23 | 18.62 | | 7.14 | | 6.40 | 20.55 | 5.10 | .35 | .03 | | | | .04 | | .00 | 100.15 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 304 | P | G11 | | | 41.65 | .30 | 18.81 | | 6.38 | | 5.95 | 20.17 | 6.13 | .29 | .03 | | | | .02 | | .00 | 99.72 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 305 | P | G11 | | | 41.54 | .10 | 17.63 | | 7.97 | | 6.14 | 19.24 | 6.85 | .27 | .02 | | | | .00 | | .00 | 99.77 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 308 | P | G11 | | | 41.72 | .54 | 19.10 | | 5.46 | | 6.77 | 19.93 | 5.94 | .28 | .01 | | | | .04 | | .00 | 99.79 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 312 | P | G11 | | | 41.56 | .30 | 18.26 | | 6.86 | | 6.32 | 19.61 | 6.32 | .28 | 0.00 | | | | .01 | | .00 | 99.51 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 404 | P | G11 | | | 41.49 | .11 | 17.31 | | 8.56 | | 6.30 | 19.08 | 6.95 | .30 | .02 | | | | .00 | | .01 | 100.13 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 405 | P | G11 | | | 41.61 | .37 | 18.38 | | 6.88 | | 6.44 | 19.55 | 6.27 | .31 | 0.00 | | | | .03 | | .00 | 99.85 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 406 | P | G11 | | | 41.59 | .12 | 18.83 | | 6.81 | | 6.91 | 19.09 | 6.20 | .42 | .02 | | | | .02 | | .00 | 100.03 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 407 | P | G11 | | | 41.64 | .33 | 18.23 | | 7.03 | | 6.39 | 19.62 | 6.32 | .32 | .01 | | | | .01 | | 0.00 | 99.89 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 408 | P | G11 | | | 41.22 | .68 | 17.45 | | 7.70 | | 6.94 | 18.90 | 6.74 | .33 | 0.00 | | | | .05 | | .01 | 100.01 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 412 | P | G11 | | | 41.01 | .30 | 18.09 | | 7.29 | | 7.43 | 18.52 | 6.49 | .38 | .02 | | | | .04 | | .01 | 99.58 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 502 | P | G11 | | | 40.83 | .60 | 16.28 | | 8.71 | | 7.18 | 18.00 | 7.16 | .34 | .04 | | | | .04 | | .00 | 95.19 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 510 | P | G11 | | | 41.31 | .14 | 18.63 | | 6.63 | | 7.31 | 18.68 | 6.22 | .42 | .02 | | | | .02 | | .00 | 99.39 | | |
| PP-20-08 | -32+80HPY | 7607 | 20 | 512 | P | G11 | | | 41.35 | .15 | 17.99 | | 7.25 | | 7.07 | 18.40 | 6.90 | .38 | 0.00 | | | | .02 | | 0.00 | 99.52 | | |

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:15 pm

File: Prb9547.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----|-----------|----|-------|-------|-------|-------|------|-------|------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|--------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T(Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-08 | -32+80HPY | 7607 | 20 | 602 | P | G11 | | | 41.74 | .26 | 18.35 | | | 6.78 | | 6.42 | 19.47 | 6.26 | .32 | .01 | | | | .01 | | 0.00 | 99.62 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 603 | P | G11 | | | 41.50 | .36 | 18.20 | | | 7.02 | | 6.28 | 19.58 | 6.33 | .29 | 0.00 | | | | .02 | | 0.00 | 99.57 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 610 | P | G11 | | | 41.82 | .11 | 20.20 | | | 5.33 | | 6.66 | 19.60 | 5.89 | .41 | .01 | | | | .03 | | 0.00 | 100.07 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 617 | P | G11 | | | 41.65 | .01 | 20.25 | | | 5.33 | | 7.10 | 19.01 | 6.24 | .48 | 0.00 | | | | .01 | | 0.00 | 100.07 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 618 | P | G11 | | | 41.61 | .13 | 18.50 | | | 7.00 | | 7.32 | 18.63 | 6.42 | .44 | .00 | | | | .03 | | 0.00 | 100.09 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 712 | P | G11 | | | 41.63 | .38 | 18.37 | | | 6.62 | | 6.48 | 19.46 | 6.33 | .31 | .02 | | | | .02 | | 0.00 | 99.62 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 713 | P | G11 | | | 41.37 | .15 | 18.48 | | | 6.83 | | 7.56 | 18.61 | 6.48 | .41 | .03 | | | | .01 | | 0.00 | 99.94 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 805 | P | G11 | | | 41.15 | .22 | 16.64 | | | 8.72 | | 6.61 | 18.96 | 6.92 | .32 | .00 | | | | .03 | | 0.00 | 99.58 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 809 | P | G11 | | | 41.25 | .24 | 18.09 | | | 7.35 | | 7.36 | 18.53 | 6.56 | .42 | .03 | | | | .03 | | 0.00 | 99.87 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 819 | P | G11 | | | 41.56 | .17 | 17.34 | | | 7.98 | | 6.19 | 19.00 | 7.08 | .27 | .03 | | | 0.00 | .01 | | .00 | 99.61 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 902 | P | G11 | | | 40.90 | .64 | 16.32 | | | 8.85 | | 7.14 | 18.20 | 7.15 | .39 | 0.00 | | | | .05 | | .00 | 99.64 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 906 | P | G11 | | | 41.06 | .38 | 16.87 | | | 8.40 | | 6.75 | 19.01 | 6.74 | .33 | .01 | | | | .02 | | .00 | 99.55 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 908 | P | G11 | | | 41.44 | .03 | 17.33 | | | 8.38 | | 6.33 | 18.86 | 7.09 | .32 | .05 | | | | .01 | | 0.00 | 99.86 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 911 | P | G11 | | | 41.58 | .09 | 19.98 | | | 5.23 | | 7.91 | 18.62 | 6.23 | .42 | 0.00 | | | | .02 | | 0.00 | 100.07 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 912 | P | G11 | | | 41.65 | .54 | 19.38 | | | 5.15 | | 7.95 | 18.99 | 6.08 | .44 | 0.00 | | | | .05 | | .00 | 100.24 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 102 | P | G11 | | | 41.69 | .33 | 18.41 | | | 6.64 | | 6.67 | 19.68 | 6.21 | .29 | .01 | | | | .03 | | 0.00 | 99.94 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 105 | P | G11 | | | 41.42 | .11 | 17.84 | | | 7.67 | | 6.44 | 19.07 | 6.79 | .33 | .01 | | | | .00 | | .00 | 99.67 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 110 | P | G11 | | | 41.76 | .28 | 19.26 | | | 5.32 | | 7.05 | 19.78 | 5.97 | .32 | .01 | | | | .03 | | .00 | 99.77 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 113 | P | G11 | | | 41.59 | .02 | 19.94 | | | 5.64 | | 7.45 | 18.86 | 6.00 | .43 | .03 | | | | .03 | | 0.00 | 99.99 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 114 | P | G11 | | | 41.51 | .57 | 19.17 | | | 5.40 | | 7.55 | 19.10 | 6.11 | .42 | .04 | | | | .03 | | .00 | 99.89 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 203 | P | G11 | | | 41.40 | .02 | 19.68 | | | 5.83 | | 7.36 | 18.81 | 6.17 | .51 | .02 | | | | .01 | | 0.00 | 99.81 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 206 | P | G11 | | | 41.56 | .03 | 19.21 | | | 6.39 | | 6.87 | 18.92 | 6.21 | .45 | 0.00 | | | | .01 | | 0.00 | 99.64 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 208 | P | G11 | | | 41.71 | .12 | 17.68 | | | 7.95 | | 6.09 | 19.31 | 6.61 | .29 | .01 | | | | .01 | | 0.00 | 99.79 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 211 | P | G11 | | | 41.48 | .09 | 17.08 | | | 8.52 | | 6.18 | 19.05 | 6.89 | .28 | .03 | | | | .01 | | 0.00 | 99.61 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 213 | P | G11 | | | 41.44 | .13 | 18.07 | | | 7.40 | | 6.33 | 19.14 | 6.76 | .31 | .04 | | | 0.00 | .00 | | 0.00 | 99.62 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 305 | P | G11 | | | 41.06 | .24 | 16.07 | | | 9.66 | | 6.53 | 18.63 | 7.10 | .32 | .03 | | | | .02 | | 0.00 | 99.66 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 308 | P | G11 | | | 41.11 | .75 | 17.44 | | | 7.44 | | 7.25 | 18.91 | 6.62 | .36 | .01 | | | | .06 | | .01 | 99.96 |
| PP-20-08 | -32+80HIL | 7607 | 30 | 601 | P | G11 | | | 41.94 | .03 | 19.03 | | | 6.21 | | 6.44 | 19.71 | 6.41 | .31 | .03 | | | 0.00 | .00 | | 0.00 | 100.12 |
| PP-20-08 | -32+80HIL | 7607 | 30 | 602 | P | G11 | | | 41.71 | .10 | 19.00 | | | 6.46 | | 6.16 | 20.07 | 6.21 | .29 | .04 | | | | .01 | | .00 | 100.05 |
| PP-20-08 | -32+80HIL | 7607 | 30 | 603 | P | G11 | | | 41.40 | .02 | 17.61 | | | 8.07 | | 6.35 | 19.09 | 7.08 | .29 | .02 | | | | .00 | | .01 | 99.93 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 401 | P | G11-1 | | | 41.14 | .24 | 18.97 | | | 6.22 | | 7.42 | 19.03 | 6.00 | .42 | .03 | | | | .02 | | .01 | 99.50 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 403 | P | G11-1 | | | 41.92 | .03 | 20.54 | | | 5.07 | | 6.77 | 20.59 | 4.63 | .45 | .04 | | | | .02 | | 0.00 | 100.06 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 415 | P | G11-1 | | | 41.54 | .32 | 17.90 | | | 7.51 | | 6.34 | 19.52 | 6.34 | .30 | .00 | | | | .03 | | 0.00 | 99.80 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 418 | P | G11-1 | | | 41.76 | .21 | 19.58 | | | 5.65 | | 7.15 | 19.76 | 5.38 | .41 | .00 | | | | .02 | | 0.00 | 99.92 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 420 | P | G11-1 | | | 41.31 | .08 | 17.60 | | | 8.27 | | 7.02 | 19.11 | 5.86 | .44 | .01 | | | | .02 | | 0.00 | 99.73 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 519 | P | G11-1 | | | 41.84 | 0.00 | 20.43 | | | 4.95 | | 7.46 | 19.21 | 5.37 | .52 | .03 | | | | .02 | | .00 | 99.82 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 609 | P | G11-1 | | | 41.50 | .30 | 17.96 | | | 7.10 | | 6.55 | 19.22 | 6.23 | .29 | .01 | | | | .02 | | .00 | 99.18 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 616 | P | G11-1 | | | 41.16 | .42 | 18.09 | | | 7.29 | | 6.74 | 19.43 | 6.17 | .32 | 0.00 | | | | .04 | | 0.00 | 99.65 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 711 | P | G11-1 | | | 41.99 | .28 | 20.20 | | | 5.14 | | 6.59 | 20.57 | 5.25 | .34 | .01 | | | | .05 | | 0.00 | 100.42 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 801 | P | G11-1 | | | 41.63 | .21 | 18.95 | | | 6.30 | | 7.32 | 19.39 | 5.65 | .45 | .03 | | | | .05 | | 0.00 | 99.97 |

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.


3-Dec-2020 12:15 pm

File: Prb9547.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----|-----------|----|-------|-------|-------|-------|------|-------|------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|--------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T(Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-08 | -32+80HPY | 7607 | 20 | 804 | P | G11-1 | | | 41.36 | .13 | 17.73 | | | 7.99 | | 6.16 | 19.79 | 5.97 | .36 | .00 | | | | .03 | | .00 | 99.53 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 806 | P | G11-1 | | | 41.75 | .19 | 19.89 | | | 5.31 | | 6.89 | 19.76 | 5.72 | .36 | 0.00 | | | | .03 | | 0.00 | 99.89 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 807 | P | G11-1 | | | 41.95 | .23 | 19.85 | | | 5.59 | | 6.73 | 20.27 | 5.17 | .46 | .01 | | | | .06 | | .00 | 100.32 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 909 | P | G11-1 | | | 41.61 | .02 | 19.38 | | | 6.32 | | 6.75 | 19.89 | 5.02 | .43 | .00 | | | | .02 | | .00 | 99.45 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 914 | P | G11-1 | | | 41.59 | .07 | 19.39 | | | 6.19 | | 7.31 | 19.17 | 5.64 | .48 | 0.00 | | | | .03 | | 0.00 | 99.86 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 103 | P | G11-1 | | | 42.12 | .01 | 20.18 | | | 5.40 | | 7.18 | 19.75 | 5.13 | .46 | .00 | | | | .03 | | .01 | 100.27 |
| PP-20-08 | -32+80HPY | 7607 | 21 | 310 | P | G11-1 | | | 41.62 | .14 | 18.83 | | | 6.62 | | 7.10 | 19.29 | 5.99 | .42 | .01 | | | | .03 | | .00 | 100.04 |
| PP-20-08 | -32+80HIL | 7607 | 30 | 605 | P | G11-1 | | | 41.57 | .61 | 17.81 | | | 7.38 | | 6.25 | 19.95 | 6.07 | .29 | .03 | | | | .06 | | 0.00 | 100.02 |
| PP-20-08 | -32+80HPY | 7607 | 20 | 706 | P | G11 | | D10 | 41.30 | .38 | 17.09 | | | 8.22 | | 6.19 | 19.23 | 6.80 | .30 | .00 | | | | .03 | | 0.00 | 99.55 |

PP-20-03/
PP-20-04

 ISO 9001:2015
ISO 17025:2005


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C.F. Mineral Research Ltd.'s Diamond Classifications of Submitted Electron Microprobe Analyses

Source : C.F. Mineral Research Ltd. EPMA
Status : BASE: AD87
Project : DD16

File Name : PRB9548
Analyses: 130
Date : 3 December 2020

Caveats and explanations:

- Any '#' symbol identifies analyses where the total is outside the range of 98.5 and 101.0 despite repeated analyses. This may affect the quality and reliability of the classifications.
- Any '*' symbol identifies samples where no grains were found (by picking/scanning) worthy of analysing from the whole sample. No asterisk is shown if at least one (or more) grain(s) from the sample was analysed.
- Any 'D' symbol identifies duplicate analytical descriptions.
- Any 'i' symbol identifies a grain with an intergrowth.
- The Mars/Cart rock classification (using chromite analysis) assumes the presence of, and good quality analyte values of MnO, NiO and ZnO values.
- The Mars/Cart 'n' symbol identifies analyses that cannot classify due to
 - (i) lacking all required analytes
 - or (ii) possessing any analyte with a value <0.0001
- The Mars/Cart T(Zn) can include extreme, but useful, values outside the calibrated ranges
- The Mars/Cart '+' symbol identifies T(Zn) within the diamond stability range of -950-1250°C
- The results of any geothermobarometry obtained from suitable CPXs are reported at the end of the DI field.
- Please see document titled "Legend of Electron Microprobe Compositional Classifications (Version 4.812)" for further explanations.

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:16 pm
File: Prb9548.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----------|-----------|-----|-------|-------|--------|-------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|--------|-------|------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T (Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total | |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 107 | OLV | | | | 41.02 | .01 | 0.00 | | .03 | | 9.91 | 49.28 | .02 | .15 | .31 | | | | 0.00 | | 0.00 | 100.72 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 203 | OLV | | | | 40.66 | .01 | .01 | | 0.00 | | 10.30 | 48.37 | .01 | .13 | .37 | | | | 0.00 | | 0.00 | 99.86 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 302 | OLV | | | | 40.26 | .03 | 0.00 | | .02 | | 12.31 | 47.55 | .02 | .19 | .27 | | | | 0.00 | | 0.00 | 100.65 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 104 | OLV-FORS | | | | 40.82 | .01 | .00 | | .01 | | 9.14 | 49.82 | .01 | .16 | .33 | | | | .00 | | 0.00 | 100.32 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 105 | OLV-FORS | | | | 40.98 | .02 | .01 | | 0.00 | | 9.19 | 49.75 | .02 | .12 | .36 | | | | 0.00 | | 0.00 | 100.45 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 106 | OLV-FORS | | | | 41.33 | .01 | .02 | | .03 | | 8.35 | 49.78 | .03 | .09 | .38 | | | | .00 | | 0.00 | 100.02 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 112 | OLV-FORS | | | | 41.16 | .01 | 0.00 | | .01 | | 9.45 | 49.66 | .01 | .14 | .31 | | | | .00 | | .00 | 100.76 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 307 | OLV-FORS | | | | 41.38 | .01 | 0.00 | | 0.00 | | 8.33 | 50.39 | .01 | .14 | .35 | | | | 0.00 | | .01 | 100.63 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 311 | OLV-FORS | | | | 41.46 | 0.00 | .00 | | .00 | | 7.69 | 50.63 | .02 | .14 | .33 | | | | .01 | | 0.00 | 100.29 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 510 | OLV-FORS | | | | 41.48 | 0.00 | .01 | | 0.00 | | 7.46 | 51.32 | .02 | .15 | .43 | | | | 0.00 | | 0.00 | 100.87 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 701 | OLV-FORS | | | | 40.85 | .03 | .02 | | .07 | | 9.66 | 49.46 | .08 | .13 | .39 | | | | .03 | | 0.00 | 100.69 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 20 | 314 | OLV-FORS | | | | 41.06 | .01 | .04 | | .05 | | 8.56 | 49.70 | .08 | .13 | .40 | | | | .00 | | .00 | 100.02 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 706 | CR | - | K U | 1010+ | .01 | 5.05 | 2.43 | .82 | 30.19 | 27.94 | 27.04 | 5.84 | .00 | .39 | .16 | .07 | | | | | | 99.94 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 804 | CR | - | K L | 835 | .09 | 1.88 | 26.92 | .17 | 31.38 | 10.22 | 13.94 | 15.50 | .00 | .21 | .21 | .12 | | | | | | 100.63 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 808 | CR | - | K K | 950+ | .07 | .28 | 12.99 | .16 | 55.06 | 5.17 | 10.25 | 15.45 | .00 | .22 | .18 | .08 | | | | | | 99.92 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 818 | CR | - | U G | | .05 | .49 | 10.46 | .14 | 46.63 | 8.64 | 28.27 | 1.81 | 0.00 | 1.66 | .12 | 1.23 | | | | | | 99.50 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 104 | CR | - | L K | 823 | .04 | .13 | 12.64 | .27 | 56.32 | 3.54 | 12.98 | 13.54 | .00 | .28 | .09 | .12 | | | | | | 99.96 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 111 | CR | - | L L | 1301 | .10 | .27 | 13.49 | .15 | 54.73 | 5.38 | 9.58 | 16.02 | 0.00 | .21 | .21 | .04 | | | | | | 100.18 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 112 | CR | - | G K | 715 | 0.00 | .51 | 8.22 | .29 | 52.13 | 10.75 | 18.81 | 9.43 | 0.00 | .43 | .11 | .18 | | | | | | 100.87 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 203 | CR | - | K U | 1012+ | .00 | 4.74 | 1.26 | 1.24 | 36.62 | 23.58 | 25.50 | 6.58 | 0.00 | .46 | .19 | .07 | | | | | | 100.25 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 404 | CR | - | L L | 695 | 0.00 | .14 | 21.07 | .29 | 47.02 | 3.27 | 14.91 | 13.17 | 0.00 | .30 | .07 | .19 | | | | | | 100.43 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 418 | CR | - | L L | 678 | .03 | .02 | 15.47 | .36 | 52.95 | 3.77 | 13.97 | 13.11 | .00 | .31 | .08 | .21 | | | | | | 100.27 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 20 | 206 | CR | - | K L | 879 | .07 | .55 | 15.27 | .37 | 49.01 | 7.14 | 14.29 | 13.25 | .00 | .29 | .19 | .10 | | | | | | 100.53 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 707 | OLV-FORS | DI | | | 41.10 | 0.00 | .00 | | .01 | | 7.39 | 51.63 | .01 | .12 | .32 | | | | 0.00 | | .00 | 100.60 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 611 | OLV-FORS | DI | | | 41.38 | 0.00 | 0.00 | | .00 | | 7.19 | 51.48 | .01 | .15 | .28 | | | | 0.00 | | .00 | 100.50 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 617 | OLV-FORS | DI* | | | 41.18 | .02 | .01 | | .03 | | 7.32 | 51.33 | .03 | .10 | .36 | | | | .01 | | 0.00 | 100.36 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 304 | OLV-FORS | DI* | | | 41.47 | .04 | .01 | | .00 | | 6.84 | 50.91 | .01 | .13 | .35 | | | | .00 | | .00 | 99.76 | | |
| PP-20-03/04 | -32+80HPY | 7608 | 10 | 309 | OLV-FORS | DI* | | | 41.63 | .00 | .00 | | .03 | | 6.37 | 51.99 | .01 | .10 | .40 | | | | .01 | | 0.00 | 100.53 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 704 | CR | TI | K K | 913 | .02 | 2.99 | 3.98 | .45 | 50.00 | 12.47 | 20.42 | 9.31 | 0.00 | .44 | .14 | .09 | | | | | | 100.31 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 803 | CR | TI | K U | 786 | .01 | 3.19 | 2.42 | .79 | 49.24 | 14.07 | 21.02 | 8.81 | .01 | .46 | .13 | .14 | | | | | | 100.28 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 811 | CR | TI | K K | 768 | .02 | 2.97 | 3.93 | .44 | 50.24 | 12.14 | 19.67 | 9.64 | .00 | .43 | .16 | .15 | | | | | | 99.77 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 813 | CR | TI | K U | 724 | .01 | 3.26 | 1.37 | .81 | 43.32 | 20.15 | 23.24 | 7.09 | .01 | .52 | .23 | .17 | | | | | | 100.20 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 10 | 903 | CR | TI | K U | 738 | .01 | 2.79 | 1.90 | .87 | 50.59 | 13.70 | 20.50 | 8.70 | 0.00 | .52 | .21 | .16 | | | | | | 99.95 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 11 | 420 | CR | TI | K K | 992+ | 0.00 | 4.03 | 2.11 | .86 | 44.27 | 17.13 | 23.28 | 7.78 | 0.00 | .41 | .15 | .08 | | | | | | 100.10 | | |
| PP-20-03/04 | -32+80HIL | 7608 | 20 | 309 | CR | TI | K K | 783 | 0.00 | 3.14 | 4.15 | .45 | 48.05 | 13.76 | 20.78 | 9.08 | .00 | .41 | .19 | .14 | | | | | | 100.16 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 806 | CP | CP2 | | | 53.65 | .39 | 1.02 | | 1.01 | | 5.62 | 17.23 | 20.34 | .15 | .07 | | | | .54 | | .01 | 100.04 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 514 | CP | CP2 | | | 53.81 | .37 | .99 | | .85 | | 5.98 | 17.50 | 19.93 | .16 | .09 | | | | .52 | | 0.00 | 100.17 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 515 | CP | CP2 | | | 53.73 | .30 | .82 | | .92 | | 5.90 | 17.20 | 19.84 | .18 | .08 | | | | .50 | | .01 | 99.49 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 111 | CP | CP5 | | | 54.08 | .20 | 2.12 | | 2.39 | | 2.55 | 15.56 | 19.98 | .08 | .04 | | | | 2.12 | | .01 | 99.13 | | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 807 | CP | CPX | | | 53.41 | .38 | 1.02 | | 1.12 | | 5.78 | 17.32 | 20.23 | .17 | .04 | | | | .62 | | 0.00 | 100.07 | | |

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:16 pm
File: Prb9548.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----|-------|-----------|-------|-------------|------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|-------|------|------|------|--------|
| | | | Cell | Grain | SA | CFM | DI | M C | T(Zn) °C | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 808 | CP | CPX | - | -- | 53.31 | .43 | .98 | | | .75 | 6.52 | 16.91 | 19.92 | .17 | .08 | | | | | .56 | 0.00 | 99.64 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 917 | CP | CP2 | - | Diam+ | 53.86 | .31 | .75 | | | .89 | 6.00 | 17.94 | 19.80 | .15 | .07 | | | | | .48 | .01 | 100.24 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 914 | CP | CP2 | - | Diam- | 53.94 | .32 | .98 | | | 1.14 | 5.54 | 17.76 | 19.84 | .15 | .11 | | | | | .55 | .00 | 100.33 |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 112 | CP | CP2 | - | Diam- | 53.63 | .34 | 1.00 | | | 1.11 | 6.23 | 17.86 | 19.44 | .17 | .04 | | | | | .56 | 0.00 | 100.37 |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 601 | CP | CP2 | - | Gr | 53.83 | .20 | .99 | | | .90 | 5.21 | 17.78 | 20.88 | .17 | .04 | | | | | .27 | 0.00 | 100.27 |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 413 | CP | CP5 | G2 | Gr | 54.95 | 0.00 | 3.39 | | | 2.37 | 2.26 | 14.83 | 19.72 | .07 | .06 | | | | | 2.91 | .01 | 100.56 |
| PP-20-03/04 | -32+80HPY | 7607 | 41 | 308 | CP | CP5 | G2/D10 | -- | 54.49 | .08 | .65 | | | 1.06 | 2.96 | 15.93 | 23.97 | .10 | .00 | | | | | 1.08 | 0.00 | 100.32 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 805 | E | G 9 | G1/HPM | | 41.30 | 1.77 | 21.04 | | | .70 | 9.49 | 18.80 | 6.87 | .30 | 0.00 | | | | | .092 | 0.00 | 100.36 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 701 | E | G 2 | HPM | | 41.47 | 1.81 | 21.05 | | | .89 | 9.37 | 18.44 | 6.73 | .28 | 0.00 | | | | | .098 | 0.00 | 100.15 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 507 | E | G 9 | HPM | | 41.67 | .56 | 22.72 | | | .35 | 12.15 | 18.19 | 4.60 | .48 | 0.00 | | | | | .081 | 0.00 | 100.79 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 515 | E | G 9 | HPM | | 41.79 | .50 | 21.84 | | | 1.79 | 9.65 | 19.26 | 5.03 | .40 | 0.00 | | | | | .044 | 0.00 | 100.30 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 602 | E | G 9 | HPM | | 42.16 | .64 | 21.72 | | | 1.70 | 8.25 | 20.95 | 4.59 | .26 | .01 | | | | | .077 | .00 | 100.33 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 702 | E | G 9 | HPM | | 41.56 | 1.47 | 21.13 | | | 1.28 | 9.18 | 18.64 | 6.37 | .32 | .02 | | | | | .084 | .01 | 100.04 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 715 | E | GT | HPM | | 41.44 | 1.91 | 20.99 | | | .71 | 9.39 | 18.23 | 7.02 | .31 | 0.00 | | | | | .094 | 0.00 | 100.09 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 614 | E | G 4 | HPM* | | 41.86 | .89 | 22.35 | | | .32 | 11.10 | 19.12 | 4.55 | .37 | .01 | | | | | .103 | 0.00 | 100.66 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 508 | E | G 9 | HPM* | | 42.51 | .29 | 23.50 | | | .62 | 8.76 | 19.77 | 4.51 | .40 | .00 | | | | | .047 | 0.00 | 100.42 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 509 | E | G 9 | HPM* | | 42.36 | .52 | 22.27 | | | 1.43 | 9.40 | 19.20 | 4.97 | .36 | .01 | | | | | .054 | .00 | 100.59 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 512 | E | G 9 | HPM* | | 41.89 | .68 | 22.00 | | | 1.59 | 9.79 | 19.25 | 4.93 | .37 | .05 | | | | | .082 | .00 | 100.59 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 513 | E | G 9 | HPM* | | 41.46 | .65 | 21.93 | | | 1.26 | 10.67 | 18.84 | 5.16 | .40 | 0.00 | | | | | .068 | 0.00 | 100.42 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 604 | E | G 9 | HPM* | | 41.66 | .68 | 21.74 | | | 1.38 | 10.38 | 18.75 | 5.20 | .43 | 0.00 | | | | | .077 | .01 | 100.28 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 606 | E | G 9 | HPM* | | 42.16 | .51 | 22.32 | | | 1.40 | 9.49 | 19.24 | 4.96 | .38 | .01 | | | | | .054 | .00 | 100.52 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 608 | E | G 9 | HPM* | | 42.67 | .60 | 22.34 | | | 1.51 | 7.38 | 20.92 | 4.58 | .27 | .04 | | | | | .078 | .01 | 100.38 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 703 | E | G 9 | HPM* | | 42.15 | .53 | 22.12 | | | 1.41 | 9.78 | 19.19 | 4.86 | .38 | .03 | | | | | .067 | 0.00 | 100.51 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 705 | E | G 9 | HPM* | | 41.96 | .61 | 21.79 | | | 1.87 | 10.04 | 18.50 | 5.10 | .37 | .03 | | | | | .063 | .00 | 100.34 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 518 | E | G 9 | HPM/G1 | | 41.76 | .53 | 22.61 | | | .51 | 10.96 | 19.07 | 4.55 | .33 | .02 | | | | | .086 | .00 | 100.43 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 605 | E | G 9 | HPM/G1 | | 42.14 | .20 | 23.84 | | | .39 | 8.97 | 20.33 | 4.20 | .39 | .02 | | | | | .050 | 0.00 | 100.54 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 613 | E | G 9 | HPM/G1 | | 41.69 | .82 | 22.13 | | | .76 | 10.59 | 18.44 | 5.75 | .39 | .01 | | | | | .080 | 0.00 | 100.66 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 510 | P | G 9 | | | 41.85 | .58 | 21.52 | | | 2.06 | 8.60 | 19.60 | 5.61 | .33 | .02 | | | | | .03 | 0.00 | 100.20 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 517 | P | G 9 | | | 42.20 | .33 | 21.79 | | | 2.19 | 8.05 | 20.40 | 4.98 | .33 | .01 | | | | | .02 | 0.00 | 100.30 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 601 | P | G 9 | | | 41.62 | .60 | 21.52 | | | 2.11 | 9.65 | 19.05 | 5.46 | .38 | .01 | | | | | .05 | .00 | 100.45 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 610 | P | G 9 | | | 41.78 | .36 | 21.49 | | | 2.82 | 8.73 | 19.70 | 5.13 | .42 | 0.00 | | | | | .05 | .00 | 100.49 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 804 | P | G 9 | | | 42.12 | .41 | 21.17 | | | 3.01 | 7.68 | 20.57 | 5.28 | .31 | .02 | | | | | .03 | 0.00 | 100.60 |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 305 | P | G 9-1 | | | 42.16 | .31 | 20.69 | | | 4.37 | 6.50 | 20.49 | 5.21 | .34 | .02 | | | | | .04 | 0.00 | 100.14 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 704 | P | G 9-1 | | | 41.83 | .61 | 20.21 | | | 4.23 | 6.69 | 20.82 | 5.29 | .35 | .01 | | | | | .08 | 0.00 | 100.12 |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 817 | P | G10-2 | | | 41.56 | .03 | 18.10 | | | 8.04 | 6.65 | 20.31 | 5.04 | .36 | 0.00 | | | | | .01 | .00 | 100.10 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 311 | P | G10-2 | | | 42.19 | 0.00 | 20.57 | | | 5.23 | 6.67 | 21.51 | 3.79 | .44 | 0.00 | | | | | .01 | .00 | 100.40 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 407 | P | G10-2 | | | 41.41 | .07 | 18.84 | | | 7.26 | 6.26 | 20.81 | 5.06 | .38 | 0.00 | | | | | .02 | .00 | 100.12 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 408 | P | G10-2 | | | 42.41 | .01 | 21.14 | | | 4.14 | 6.73 | 21.35 | 3.89 | .35 | 0.00 | | | | | .01 | 0.00 | 100.03 |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 815 | P | G11 | | | 40.96 | .55 | 17.94 | | | 6.82 | 7.80 | 19.15 | 6.27 | .40 | 0.00 | | | | | .05 | .01 | 99.94 |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 816 | P | G11 | | | 40.68 | .52 | 17.41 | | | 7.48 | 7.13 | 18.90 | 6.76 | .40 | .01 | | | | | .06 | .00 | 99.34 |

Client: RJK0

ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:16 pm
File: Prb9548.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----|-----------|----|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|------|------|-------|------|------|--------|-------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T(Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 819 | P | G11 | | | 41.36 | .10 | 18.81 | | | 6.38 | 7.64 | 18.59 | 6.42 | .41 | .01 | | | .01 | | | 0.00 | 99.72 | |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 904 | P | G11 | | | 41.47 | .17 | 18.74 | | | 6.53 | 7.16 | 18.95 | 6.17 | .42 | .02 | | | .03 | | | 0.00 | 99.65 | |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 918 | P | G11 | | | 41.36 | .38 | 16.93 | | | 8.24 | 6.27 | 19.09 | 6.83 | .29 | 0.00 | | | .02 | | | .00 | 99.41 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 104 | P | G11 | | | 41.36 | .03 | 18.28 | | | 7.39 | 6.91 | 18.61 | 6.83 | .41 | .01 | | | 0.00 | | | 0.00 | 99.84 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 107 | P | G11 | | | 41.76 | .10 | 20.00 | | | 5.63 | 6.81 | 19.41 | 5.85 | .42 | 0.00 | | | .02 | | | .00 | 100.00 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 111 | P | G11 | | | 41.25 | .12 | 18.28 | | | 6.89 | 7.55 | 18.30 | 6.98 | .41 | .04 | | | .03 | | | .00 | 99.86 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 114 | P | G11 | | | 41.21 | .63 | 18.39 | | | 6.78 | 6.97 | 19.74 | 6.34 | .36 | .03 | | | .05 | | | 0.00 | 100.48 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 201 | P | G11 | | | 41.13 | .09 | 18.39 | | | 7.23 | 7.23 | 18.60 | 6.92 | .43 | .00 | | | .01 | | | 0.00 | 100.03 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 202 | P | G11 | | | 41.46 | .39 | 17.81 | | | 7.30 | 6.19 | 19.42 | 6.91 | .29 | .03 | | | 0.00 | | | .01 | 99.81 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 204 | P | G11 | | | 41.93 | .26 | 19.88 | | | 5.41 | 7.05 | 19.33 | 5.93 | .40 | 0.00 | | | .03 | | | 0.00 | 100.22 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 205 | P | G11 | | | 41.83 | .27 | 20.09 | | | 4.93 | 7.37 | 19.47 | 5.66 | .38 | .01 | | | .03 | | | .00 | 100.05 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 206 | P | G11 | | | 41.02 | .17 | 19.03 | | | 6.06 | 8.51 | 17.97 | 6.49 | .53 | 0.00 | | | .01 | | | .00 | 99.81 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 208 | P | G11 | | | 41.37 | .19 | 18.30 | | | 6.89 | 7.23 | 18.64 | 6.34 | .43 | .00 | | | .03 | | | .00 | 99.41 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 304 | P | G11 | | | 41.10 | .29 | 18.97 | | | 6.24 | 7.93 | 18.72 | 6.18 | .44 | .02 | | | .04 | | | 0.00 | 99.92 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 506 | P | G11 | | | 41.91 | .11 | 19.88 | | | 5.82 | 6.74 | 19.61 | 6.03 | .41 | 0.00 | | | .03 | | | 0.00 | 100.53 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 510 | P | G11 | | | 41.10 | .04 | 17.33 | | | 8.31 | 7.20 | 18.08 | 7.35 | .39 | 0.00 | | | 0.00 | | | .01 | 99.81 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 513 | P | G11 | | | 41.67 | .46 | 17.71 | | | 7.32 | 6.43 | 19.30 | 6.73 | .28 | .01 | | | .02 | | | .00 | 99.93 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 514 | P | G11 | | | 41.80 | .06 | 18.72 | | | 6.51 | 6.25 | 19.64 | 6.25 | .31 | 0.00 | | | .02 | | | .01 | 99.58 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 515 | P | G11 | | | 40.74 | .35 | 14.75 | | | 10.92 | 6.65 | 17.87 | 7.93 | .31 | 0.00 | | | .02 | | | .00 | 99.54 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 606 | P | G11 | | | 41.64 | .15 | 19.45 | | | 5.57 | 7.61 | 18.79 | 6.21 | .39 | .02 | | | .00 | | | .00 | 99.82 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 607 | P | G11 | | | 41.57 | .16 | 19.27 | | | 5.62 | 7.47 | 19.02 | 6.29 | .41 | .03 | | | .04 | | | .00 | 99.86 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 614 | P | G11 | | | 41.61 | .19 | 18.48 | | | 6.72 | 7.18 | 18.69 | 6.58 | .36 | .01 | | | .04 | | | 0.00 | 99.87 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 114 | P | G11 | | | 41.43 | .39 | 18.25 | | | 6.80 | 7.13 | 18.84 | 6.41 | .39 | .04 | | | .03 | | | 0.00 | 99.70 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 204 | P | G11 | | | 41.68 | .19 | 18.94 | | | 6.30 | 7.06 | 19.27 | 6.05 | .39 | 0.00 | | | .03 | | | .00 | 99.90 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 310 | P | G11 | | | 41.38 | .24 | 19.13 | | | 5.83 | 7.41 | 19.25 | 6.10 | .38 | .05 | | | .03 | | | 0.00 | 99.79 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 312 | P | G11 | | | 41.70 | .05 | 18.70 | | | 6.65 | 6.17 | 20.05 | 6.29 | .31 | 0.00 | | | 0.00 | | | 0.00 | 99.94 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 404 | P | G11 | | | 41.44 | .10 | 19.53 | | | 5.86 | 7.59 | 18.62 | 6.58 | .49 | .01 | | | .04 | | | 0.00 | 100.26 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 419 | P | G11 | | | 41.44 | .67 | 18.59 | | | 5.78 | 7.95 | 18.63 | 6.26 | .38 | 0.00 | | | .05 | | | 0.00 | 99.74 | |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 901 | P | G11-1 | | | 41.95 | .24 | 19.46 | | | 5.68 | 6.44 | 20.53 | 5.40 | .33 | .01 | | | .01 | | | 0.00 | 100.04 | |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 903 | P | G11-1 | | | 41.39 | .17 | 19.61 | | | 5.62 | 7.15 | 19.77 | 5.69 | .39 | 0.00 | | | .04 | | | 0.00 | 99.83 | |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 911 | P | G11-1 | | | 41.62 | .06 | 20.09 | | | 5.58 | 7.87 | 18.92 | 5.83 | .50 | .03 | | | .03 | | | 0.00 | 100.54 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 108 | P | G11-1 | | | 41.34 | .03 | 18.00 | | | 7.73 | 7.35 | 19.11 | 5.83 | .42 | .03 | | | 0.00 | | | 0.00 | 99.84 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 210 | P | G11-1 | | | 41.57 | .25 | 19.25 | | | 5.80 | 7.20 | 19.25 | 5.89 | .35 | .03 | | | .03 | | | 0.00 | 99.61 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 309 | P | G11-1 | | | 41.54 | .15 | 19.18 | | | 6.07 | 6.74 | 20.02 | 5.76 | .38 | .02 | | | .02 | | | 0.00 | 99.88 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 314 | P | G11-1 | | | 41.76 | .36 | 19.81 | | | 5.03 | 8.24 | 19.42 | 4.99 | .47 | 0.00 | | | .06 | | | .00 | 100.15 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 501 | P | G11-1 | | | 41.45 | .15 | 17.26 | | | 8.52 | 5.86 | 19.43 | 6.57 | .32 | 0.00 | | | .05 | | | .00 | 99.60 | |
| PP-20-03/04 | -32+80HPY | 7607 | 31 | 604 | P | G11-1 | | | 41.42 | .20 | 18.16 | | | 7.58 | 6.41 | 19.97 | 6.00 | .37 | .03 | | | .03 | | | 0.00 | 100.18 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 203 | P | G11-1 | | | 41.89 | .48 | 20.13 | | | 4.88 | 6.85 | 20.19 | 5.17 | .33 | .02 | | | .04 | | | 0.00 | 99.97 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 205 | P | G11-1 | | | 41.62 | .23 | 19.26 | | | 5.85 | 7.37 | 19.38 | 5.81 | .41 | 0.00 | | | .05 | | | 0.00 | 99.98 | |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 207 | P | G11-1 | | | 41.92 | .26 | 19.68 | | | 5.44 | 7.53 | 19.60 | 5.57 | .40 | .01 | | | .04 | | | 0.00 | 100.45 | |

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ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

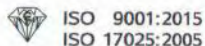
3-Dec-2020 12:16 pm

File: Prb9548.PRN


Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|-------|----|-----------|-----|-------|------|-------|------|------|-------|------|-------|-------|------|------|------|------|------|------|-------|------|------|--------|
| | | | Cell | Grain | SA | CFM | DI | M | C | T(Zn) | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O |
| | | | | | | | °C | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 208 | P | G11-1 | | 41.39 | .22 | 17.87 | | 7.75 | | 5.95 | 19.82 | 6.42 | .33 | .03 | | | | | .04 | | .00 | 99.82 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 301 | P | G11-1 | | 41.32 | .29 | 19.53 | | 5.35 | | 8.17 | 19.43 | 5.34 | .40 | .01 | | | | | .05 | | 0.00 | 99.90 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 302 | P | G11-1 | | 41.61 | .05 | 19.78 | | 6.11 | | 7.29 | 20.18 | 5.05 | .47 | .01 | | | | | .01 | | .01 | 100.57 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 303 | P | G11-1 | | 41.52 | .40 | 18.16 | | 7.03 | | 6.21 | 20.15 | 5.98 | .30 | 0.00 | | | | | .04 | | .00 | 99.79 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 405 | P | G11-1 | | 41.81 | .44 | 19.76 | | 4.98 | | 7.64 | 19.36 | 5.52 | .40 | .04 | | | | | .04 | | 0.00 | 99.99 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 406 | P | G11-1 | | 42.24 | .07 | 20.64 | | 4.98 | | 6.59 | 20.31 | 5.23 | .45 | 0.00 | | | | | .03 | | 0.00 | 100.53 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 412 | P | G11-1 | | 41.60 | .09 | 18.50 | | 6.93 | | 6.39 | 19.34 | 5.89 | .36 | .02 | | | | | .01 | | 0.00 | 99.12 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 415 | P | G11-1 | | 41.36 | .43 | 17.46 | | 7.80 | | 6.52 | 19.28 | 6.12 | .35 | 0.00 | | | | | .04 | | 0.00 | 99.36 |
| PP-20-03/04 | -32+80HPY | 7607 | 40 | 420 | P | G11-1 | | 42.03 | .16 | 19.81 | | 5.55 | | 6.94 | 19.69 | 5.69 | .40 | .01 | | | | | .02 | | 0.00 | 100.32 |
| PP-20-03/04 | -32+80HPY | 7607 | 30 | 910 | P | G11 | DIO | 41.72 | .15 | 19.01 | | 6.38 | | 6.16 | 19.63 | 6.41 | .28 | 0.00 | | | | | .00 | | .01 | 99.76 |

PP-20-09



ISO 9001:2015
ISO 17025:2005


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C.F. Mineral Research Ltd.'s Diamond Classifications of Submitted Electron Microprobe Analyses

Source : C.F. Mineral Research Ltd. EPMA
Status : BASE: AD87
Project : DD16

File Name : PRB9546
Analyses: 64
Date : 3 December 2020

Caveats and explanations:

- Any '#' symbol identifies analyses where the total is outside the range of 98.5 and 101.0 despite repeated analyses. This may affect the quality and reliability of the classifications.
- Any '*' symbol identifies samples where no grains were found (by picking/scanning) worthy of analysing from the whole sample. No asterisk is shown if at least one (or more) grain(s) from the sample was analysed.
- Any 'D' symbol identifies duplicate analytical descriptions.
- Any 'i' symbol identifies a grain with an intergrowth.
- The Mars/Cart rock classification (using chromite analysis) assumes the presence of, and good quality analyte values of MnO, NiO and ZnO values.
- The Mars/Cart 'n' symbol identifies analyses that cannot classify due to
 - (i) lacking all required analytes
 - or (ii) possessing any analyte with a value <0.0001
- The Mars/Cart T(Zn) can include extreme, but useful, values outside the calibrated ranges
- The Mars/Cart '+' symbol identifies T(Zn) within the diamond stability range of $-950-1250^{\circ}\text{C}$
- The results of any geothermobarometry obtained from suitable CPXs are reported at the end of the DI field.
- Please see document titled "Legend of Electron Microprobe Compositional Classifications (Version 4.812)" for further explanations.

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ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:14 pm
File: Prb9546.PRN

Comment:

| Sample Name | Fraction | Mount | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | | | | |
|-------------|-----------|-------|----------------------|----------|----------|-----------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|------|------|------------------|------------|
| | | | Cell | Grain SA | CFM | DI | M C | T(Zn) °C | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O | K2O | Total | |
| | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 402 | OLV-FORS | | | 40.84 | .04 | .01 | | .01 | | 8.27 | 50.48 | .03 | .12 | .41 | | | | | | | | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 403 | OLV-FORS | | | 41.06 | .01 | .00 | | .02 | | 7.50 | 50.79 | .01 | .12 | .33 | | | | | | | | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 408 | OLV-FORS | | | 41.20 | .01 | .03 | | .06 | | 7.96 | 50.51 | .06 | .11 | .39 | | | | | | | | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 410 | OLV-FORS | | | 41.13 | .01 | .02 | | .04 | | 7.96 | 50.14 | .07 | .12 | .38 | | | | | | | | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 594 | OLV-FORS | | | 41.49 | .00 | .02 | | .00 | | 5.97 | 51.77 | .02 | .07 | .36 | | | | | | | | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 701 | OLV-FORS | | | 40.83 | .04 | .00 | | .04 | | 8.76 | 49.54 | .03 | .13 | .36 | | | | | | | | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 107 | CR | - | G L 773 | .12 | 1.45 | 14.73 | .35 | 42.86 | 10.57 | 19.49 | 10.30 | 0.00 | .34 | .17 | .14 | | | | | | 100.53 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 111 | CR | - | G L 734 | .02 | .23 | 12.41 | .18 | 49.54 | 9.04 | 16.95 | 10.78 | .00 | .36 | .08 | .17 | | | | | | 99.75 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 112 | CR | - | L L 761 | 0.00 | .18 | 12.91 | .29 | 53.10 | 5.96 | 13.89 | 12.87 | .00 | .32 | .06 | .15 | | | | | | 99.72 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 202 | CR | - | U G 517 | .06 | .41 | 7.05 | .10 | 52.60 | 7.19 | 27.07 | 2.72 | .00 | 1.53 | .13 | .46 | | | | | | 99.33 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 204 | CR | - | G L 726 | .01 | .09 | 12.56 | .18 | 51.58 | 7.37 | 17.44 | 10.51 | .00 | .38 | .10 | .17 | | | | | | 100.38 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 210 | CR | - | G G | .12 | .27 | 11.87 | .15 | 47.62 | 5.79 | 31.23 | .69 | 0.00 | .99 | .08 | .89 | | | | | | 99.70 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 211 | CR | - | L L 1259 | .07 | .45 | 9.93 | .16 | 55.19 | 6.07 | 15.66 | 11.62 | .00 | .30 | .16 | .05 | | | | | | 99.66 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 215 | CR | - | K L 862 | .11 | .43 | 9.81 | .13 | 55.26 | 6.41 | 15.39 | 11.80 | 0.00 | .30 | .19 | .11 | | | | | | 99.92 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 401 | OLV-FORS | DI | | 41.39 | .00 | .00 | | .01 | | 6.12 | 51.97 | 0.00 | .10 | .35 | | | | | | | .00 99.93 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 404 | OLV-FORS | DI | | 41.05 | .00 | .00 | | .01 | | 7.31 | 51.06 | 0.00 | .10 | .34 | | | | | | | .00 99.87 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 405 | OLV-FORS | DI | | 41.56 | 0.00 | .01 | | .03 | | 6.35 | 51.89 | .01 | .07 | .44 | | | | | | | .00 100.35 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 406 | OLV-FORS | DI* | | 41.25 | .00 | .00 | | 0.00 | | 6.14 | 52.10 | 0.00 | .06 | .35 | | | | | | | .00 99.90 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 407 | OLV-FORS | DI* | | 41.28 | .01 | .01 | | .01 | | 7.36 | 51.84 | .01 | .09 | .28 | | | | | | | | .01 100.91 |
| PP-20-09 | -32+80HPY | 7607 | 11 | 409 | OLV-FORS | DI* | | 41.58 | .01 | 0.00 | | 0.00 | | 6.23 | 51.53 | .01 | .10 | .37 | | | | | | | .03 99.87 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 503 | OLV-FORS | DI* | | 41.36 | .00 | .02 | | 0.00 | | 6.04 | 52.38 | .02 | .07 | .40 | | | | | | | .00 100.31 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 602 | OLV-FORS | DI* | | 41.40 | .00 | .01 | | .01 | | 6.40 | 52.08 | .02 | .11 | .33 | | | | | | | .00 100.36 | |
| PP-20-09 | -32+80HIL | 7607 | 20 | 101 | OLV-FORS | DI* | | 40.96 | 0.00 | .00 | | 0.00 | | 6.98 | 51.31 | .01 | .09 | .35 | | | | | | | .01 99.72 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 316 | CP | CP2 | -- | 53.73 | .28 | .88 | | 1.03 | | 5.47 | 17.67 | 20.27 | .13 | .07 | | | | | | | .51 0.00 100.05 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 707 | CP | CP5 | -- | 54.83 | .12 | .32 | | 1.23 | | 2.54 | 16.37 | 23.02 | .07 | .03 | | | | | | | 1.23 .00 99.78 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 709 | CP | CP5 | -- | 54.80 | .11 | .64 | | .62 | | 2.84 | 16.85 | 22.83 | .11 | .01 | | | | | | | .93 .00 99.76 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 712 | CP | CP6 | -- | 54.59 | .24 | 1.35 | | 1.49 | | 3.51 | 15.26 | 21.11 | .08 | 0.00 | | | | | | | 2.06 .01 99.69 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 918 | CP | CPX | -- | 53.28 | .40 | 1.01 | | .85 | | 6.13 | 16.03 | 20.56 | .17 | .07 | | | | | | | .42 0.00 99.70 | |
| PP-20-09 | -32+80HPY | 7607 | 11 | 310 | CP | CPX | -- | 53.16 | .30 | .93 | | 1.08 | | 5.92 | 17.28 | 19.90 | .17 | .06 | | | | | | | .48 0.00 99.29 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 813 | CP | CP6 | G2 | -- | 54.49 | .13 | .65 | | 3.36 | | 1.88 | 15.34 | 21.07 | .05 | .03 | | | | | | 2.10 .00 99.11 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 711 | CP | CP6 | G2* | -- | 54.69 | .07 | 2.22 | | 3.32 | | 2.01 | 14.61 | 20.03 | .10 | .02 | | | | | | 2.65 .01 99.74 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 708 | CP | CP5 | G2/DIO Gr | | 54.56 | .03 | 2.35 | | 1.90 | | 1.58 | 15.45 | 21.53 | .07 | .02 | | | | | | 2.02 .01 99.53 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 702 | E | G 9 | HPM* | | 42.35 | .46 | 22.66 | | 1.20 | | 7.70 | 20.76 | 5.01 | .28 | .01 | | | | | | .036 0.00 100.44 | |
| PP-20-09 | -32+80HIL | 7607 | 11 | 706 | P | G 9 | | 41.92 | .61 | 20.33 | | 4.04 | | 7.69 | 19.50 | 5.83 | .36 | 0.00 | | | | | | | .04 .01 100.34 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 705 | P | G 9-1 | | 42.35 | .51 | 21.75 | | 2.08 | | 7.51 | 20.88 | 4.65 | .29 | .00 | | | | | | | .06 0.00 100.09 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 504 | P | G10-2 | | 42.09 | 0.00 | 20.94 | | 4.68 | | 8.16 | 20.66 | 3.71 | .36 | 0.00 | | | | | | | .01 0.00 100.61 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 603 | P | G10-2 | | 41.65 | .12 | 19.13 | | 6.55 | | 7.73 | 20.03 | 4.64 | .43 | .04 | | | | | | | .05 .00 100.38 | |
| PP-20-09 | -32+80HIL | 7607 | 11 | 704 | P | G10-2 | | 41.82 | .00 | 21.15 | | 4.10 | | 7.57 | 20.55 | 3.45 | .49 | .00 | | | | | | | .01 .00 99.15 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 202 | P | G10-5* | | 40.79 | .04 | 14.98 | | 11.68 | | 7.06 | 19.94 | 4.91 | .43 | .02 | | | | | | | .03 .01 99.88 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 107 | P | G11 | | 41.67 | .10 | 18.86 | | 6.46 | | 6.28 | 19.96 | 6.26 | .31 | .01 | | | | | | | .04 .00 99.94 | |

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ELECTRON MICROPROBE ANALYSIS FROM C.F. MINERAL RESEARCH LTD.

3-Dec-2020 12:14 pm
File: Prb9546.PRN

Comment:

| Sample Name | Fraction | Mount | Cell | Grain | v4.812Classification | | | Rock/Temp | | Trace | | | | | | | | | | | | | | | |
|-------------|-----------|-------|------|-------|----------------------|-------|----|-----------|-------|-------------|-------|------|-------|------|-------|-------|------|------|------|------|------|------|-------|--------|------|
| | | | | | SA | CFM | DI | M | C | T(Zn) °C | SiO2 | TiO2 | Al2O3 | V2O3 | Cr2O3 | Fe2O3 | FeO | MgO | CaO | MnO | NiO | ZnO | Nb2O5 | Na2O | Na2O |
| | | | | | | | | | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % | wt % |
| PP-20-09 | -32+80HPY | 7607 | 10 | 109 | P | G11 | | | 41.85 | .50 | 19.75 | | 4.74 | 6.96 | 20.03 | 5.74 | .27 | .04 | | | .02 | | .01 | 99.90 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 110 | P | G11 | | | 41.45 | .21 | 17.92 | | 7.43 | 5.99 | 19.67 | 6.42 | .29 | .01 | | | 0.00 | | .00 | 99.40 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 111 | P | G11 | | | 41.81 | .11 | 18.89 | | 6.76 | 6.21 | 20.07 | 6.30 | .32 | .01 | | | .01 | | 0.00 | 100.50 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 210 | P | G11 | | | 41.17 | .33 | 19.09 | | 6.08 | 7.55 | 19.19 | 6.22 | .41 | .01 | | | .04 | | 0.00 | 100.08 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 213 | P | G11 | | | 41.64 | .03 | 19.88 | | 5.52 | 7.12 | 19.28 | 5.95 | .47 | 0.00 | | | .04 | | 0.00 | 99.93 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 303 | P | G11 | | | 41.40 | .53 | 19.09 | | 5.72 | 7.88 | 18.82 | 6.07 | .41 | 0.00 | | | .04 | | 0.00 | 99.96 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 308 | P | G11 | | | 41.33 | .11 | 19.71 | | 5.71 | 8.10 | 19.09 | 5.88 | .46 | 0.00 | | | .02 | | .00 | 100.43 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 318 | P | G11 | | | 41.59 | .32 | 18.18 | | 7.14 | 6.36 | 19.67 | 6.30 | .30 | .05 | | | .02 | | .00 | 99.93 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 409 | P | G11 | | | 41.44 | .55 | 18.92 | | 5.92 | 7.42 | 19.17 | 6.15 | .35 | 0.00 | | | .06 | | 0.00 | 99.97 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 410 | P | G11 | | | 41.47 | .15 | 19.93 | | 5.37 | 7.54 | 18.88 | 6.08 | .47 | .01 | | | .02 | | 0.00 | 99.90 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 501 | P | G11 | | | 41.33 | .59 | 18.46 | | 6.22 | 7.53 | 18.89 | 6.30 | .39 | .00 | | | .05 | | .00 | 99.77 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 608 | P | G11 | | | 41.49 | .28 | 18.97 | | 6.26 | 7.47 | 19.16 | 6.09 | .43 | 0.00 | | | .04 | | .01 | 100.20 | |
| PP-20-09 | -32+80HIL | 7607 | 11 | 702 | P | G11 | | | 41.72 | .44 | 18.22 | | 6.93 | 6.46 | 19.67 | 6.37 | .32 | .04 | | | .02 | | 0.00 | 100.19 | |
| PP-20-09 | -32+80HIL | 7607 | 11 | 703 | P | G11 | | | 41.40 | .59 | 17.92 | | 7.11 | 6.26 | 19.87 | 6.29 | .30 | .02 | | | .05 | | .01 | 99.82 | |
| PP-20-09 | -32+80HIL | 7607 | 11 | 705 | P | G11 | | | 41.44 | .70 | 17.63 | | 7.45 | 6.34 | 19.55 | 6.40 | .35 | 0.00 | | | .08 | | 0.00 | 99.94 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 103 | P | G11-1 | | | 41.36 | .17 | 18.40 | | 6.86 | 7.75 | 18.71 | 5.87 | .44 | .02 | | | .04 | | 0.00 | 99.63 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 106 | P | G11-1 | | | 41.42 | .47 | 18.75 | | 5.94 | 7.45 | 19.18 | 5.92 | .41 | .01 | | | .05 | | 0.00 | 99.60 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 307 | P | G11-1 | | | 42.16 | .28 | 19.95 | | 5.14 | 6.83 | 19.89 | 5.53 | .30 | .01 | | | .02 | | .01 | 100.12 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 408 | P | G11-1 | | | 41.66 | .25 | 18.73 | | 6.61 | 6.66 | 19.57 | 5.85 | .35 | .02 | | | .04 | | .00 | 99.75 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 502 | P | G11-1 | | | 41.62 | .09 | 19.27 | | 6.09 | 6.51 | 19.93 | 5.76 | .36 | .01 | | | .02 | | .00 | 99.66 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 503 | P | G11-1 | | | 41.44 | .45 | 19.62 | | 5.23 | 7.77 | 19.31 | 5.70 | .37 | 0.00 | | | .03 | | .00 | 99.93 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 509 | P | G11-1 | | | 41.60 | .19 | 19.73 | | 5.62 | 7.43 | 19.24 | 5.72 | .39 | .01 | | | .03 | | .01 | 100.00 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 510 | P | G11-1 | | | 41.75 | .37 | 18.64 | | 6.76 | 6.56 | 20.06 | 5.74 | .31 | .00 | | | .04 | | 0.00 | 100.24 | |
| PP-20-09 | -32+80HPY | 7607 | 10 | 511 | P | G11-1 | | | 41.83 | .20 | 19.59 | | 5.98 | 6.56 | 20.17 | 5.53 | .34 | .05 | | | .04 | | 0.00 | 100.30 | |

DMS Processing Data

| SampleID | Batch ID | Client | Observer | Date Observation Started | Date Observation Completed | Number of Times Sample Observed | Hours Spent Observing | Numbe of Diamonds Recovered | Number of Spike Grains Recovered | Spike Comments | Other Recovered | Comments on Other Recovered | Observation Comments |
|--------------|--------------|--------|----------|--------------------------|----------------------------|---------------------------------|-----------------------|-----------------------------|----------------------------------|----------------|-----------------|-----------------------------|----------------------|
| RJK KON2 | 20-RJK-DMS01 | RJK | Chris B. | 08-Dec-20 | 08-Dec-20 | 2 | 1 | 0 | 0 | | | | |
| RJK PP-20-07 | 20-RJK-DMS01 | RJK | Chris B. | 15-Dec-20 | 16-Dec-20 | 2 | 4 | 0 | 0 | | | | |
| RJK PP-20-12 | 20-RJK-DMS01 | RJK | Chris B. | 15-Dec-20 | 15-Dec-20 | 2 | 2 | 0 | 0 | | | | |
| RJK PP-20-13 | 20-RJK-DMS01 | RJK | Chris B. | 11-Dec-20 | 11-Dec-20 | 2 | 3 | 0 | 0 | | | | |

DMS Processing Data

| SampleID | Batch ID | Date Reported | Total #Diamonds Recovered | Diamonds 100 mm Sieve | Diamonds 0500 mm Sieve | Diamonds 0500mm In One Dimension | 0075 to 0106 mm Square Mesh | 0106 to 0150 mm Square Mesh | 0150 to 0212mm Square Mesh | 0212 to 0300mm Square Mesh | 0300 to 0425mm Square Mesh | 0300 to 0425 Total Wt G | 0300 to 0425 Total Wt Ct | 0425 to 0600mm Square Mesh | 0425 to 0600mm Total W G | 0425 to 0600mm Total Wt Ct | 0600 to 0850mm Square Mesh | 0600 to 0850mm Total Wt G | 0600 to 0850mm Total Wt Ct | 0850 to 118mm Square Mesh |
|--------------|--------------|---------------|---------------------------|-----------------------|------------------------|----------------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------------|----------------------------|--------------------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
| RJK KON2 | 20-RJK-DMS01 | 18-Dec-20 | 0 | | | | | | | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 |
| RJK PP-20-07 | 20-RJK-DMS01 | 18-Dec-20 | 0 | | | | | | | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 |
| RJK PP-20-12 | 20-RJK-DMS01 | 18-Dec-20 | 0 | | | | | | | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 |
| RJK PP-20-13 | 20-RJK-DMS01 | 18-Dec-20 | 0 | | | | | | | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 |

DMS Processing Data

| Sample ID | Batch ID | 0850 to 118mm Total Wt G | 0850 to 118mm Total Wt Ct | 118 to 170mm Square Mesh Total Wt G | 118 to 170mm Total Wt Ct | 170 to 236mm Square Mesh Total Wt G | 170 to 236mm Total Wt Ct | 236 to 335mm Square Mesh Total Wt G | 236 to 335mm Total Wt Ct | 335 to 475mm Square Mesh Total Wt G | 335 to 475mm Total Wt Ct | 475mm Square Mesh Total Wt G | 475mm Square Mesh Total Wt Ct | 475 mm Total Wt G | 475mm Total Wt Ct |
|--------------|--------------|--------------------------|---------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|------------------------------|-------------------------------|-------------------|-------------------|
| RJK KON2 | 20-RJK-DMS01 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RJK PP-20-07 | 20-RJK-DMS01 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RJK PP-20-12 | 20-RJK-DMS01 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RJK PP-20-13 | 20-RJK-DMS01 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

CAUSTIC DISSOLUTION DATA REPORT

| SampleID | DataSet | DiamSource | LabCode | Batch_Number | Process_Start_Date | Sample_Wt_Wet_kg | Sample_Wt_Dry_kg | Sample_Wt_IMproc_kg | Sample_Wt_Proc_kg | Low_MeshSize_mm | Prim_Burns_No | Sec_Burns_No | Micro_Fusion_No |
|--------------|---------|------------|---------|--------------|--------------------|------------------|------------------|---------------------|-------------------|-----------------|---------------|--------------|-----------------|
| RJK KON2 | | | | 20-RJK-DMS01 | 12/3/2020 | | 5.540 | 0.000 | 5.540 | 0.1041 | 1 | 0 | |
| RJK PP-20-07 | | | | 20-RJK-DMS01 | 12/9/2020 | | 24.905 | 0.000 | 24.905 | 0.1041 | 4 | 1 | |
| RJK PP-20-12 | | | | 20-RJK-DMS01 | 12/8/2020 | | 13.500 | 0.000 | 13.500 | 0.1041 | 2 | 1 | |
| RJK PP-20-13 | | | | 20-RJK-DMS01 | 12/3/2020 | | 14.240 | 0.000 | 14.240 | 0.1041 | 2 | 2 | |

CAUSTIC DISSOLUTION DATA REPORT

| SampleID | Peroxide_ Fusion_No | Conc_Wt_ g | Process_End_D ate | Proc_Comments |
|--------------|------------------------|---------------|----------------------|---|
| RJK KON2 | | 15.6 | 12/8/2020 | |
| RJK PP-20-07 | | 234.7 | 12/14/2020 | Blank needed on 1st primary pot (Pot#9) |
| RJK PP-20-12 | | 222.0 | 12/11/2020 | Blank needed on 2nd primary pot (Pot#4) |
| RJK PP-20-13 | | 231.2 | 12/10/2020 | Blank needed on both primary pots. |