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Exploration 2021 Reverse Circulation Drilling Report

Nipissing Diamond Project – Lorrain Property

Lorrain Township

Larder Lake Mining Division

Ontario

For

RJK Explorations Ltd.

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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 reverse circulation drilling with the assistance of Steve’s Equipment Services Inc. of Sesekinika, Ontario between January 5, 2021, and March 23, 2021. A total 1,956 meters in ninety-three reverse circulation drill holes drilled on 18 unpatented mining claims within Lorrain Township. RJK Explorations Ltd. The 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.

The composite samples for each glacial body tested were processed by Microlithics And CFM Mineral labs using their DMS and attrition milling plants. The concentrates were fired in a caustic fusion process to recover diamonds. The grains were probed and classified into one of six diamond indicator minerals all formed within the diamond stability field along with diamonds. From this series of sampling, no microdiamonds were recovered from the Paradis Grid, Robin’s Lake, Lightning Lake, Nicol Lake, HSM, Gravel Pit or Paradis Beaver Dam composites. The Gleeson sample recovered 3 (0.106 microns) microdiamonds. Analysis of the picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity.

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 18 contiguous claims owned 100% RJK Explorations Ltd. The drill holes are targeting conductive anomalies identified in previous assessment work and following up on known kimberlite targets identified by kimberlite indicator minerals recovered from glacial till heavy mineral processing.

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 kilometers to a gravel logging road on the right and turning southwest on a gravel road 6 km toward the west side of Nicol Lake.

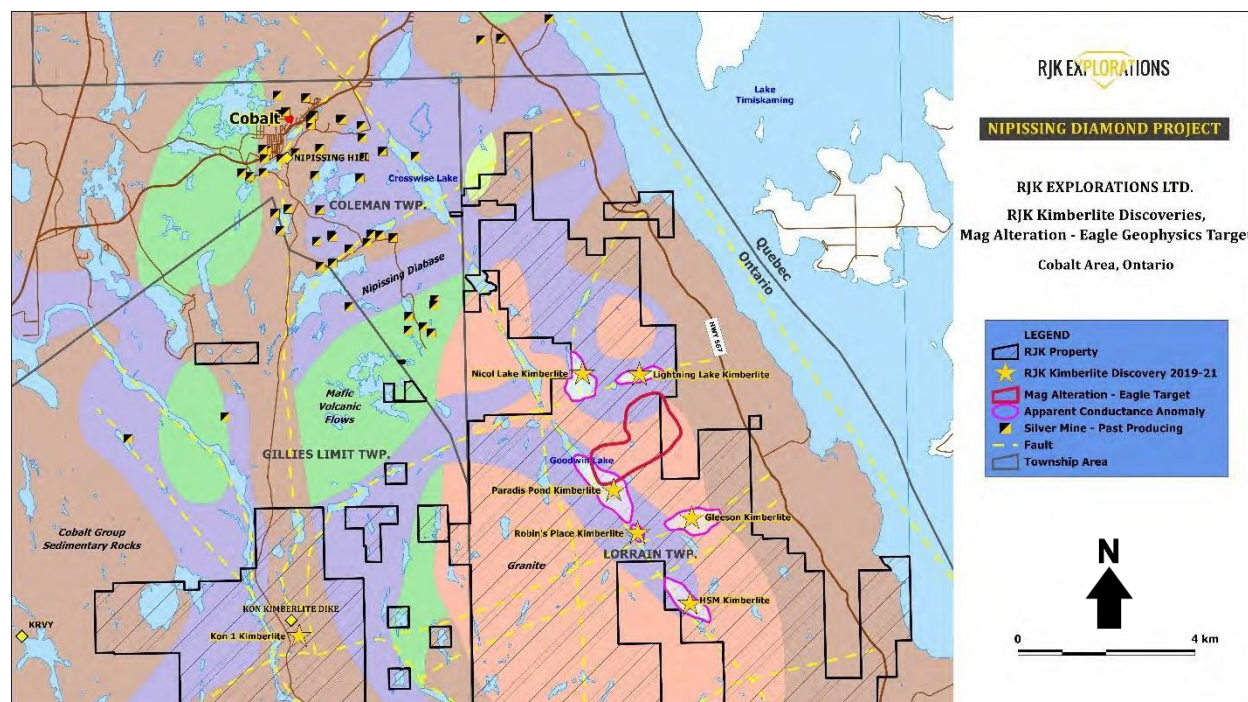


Figure 3.1: General location and property access.

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, impassable¹. 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. Claim boundaries with EM conductance bodies (purple) 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
2021	126017	4273040, 4282142	LORRAIN	RJK Explorations Ltd.	2024-10-03
2021	138563	4282401	LORRAIN	RJK Explorations Ltd.	2023-07-05
2021	144502	4282401	LORRAIN	RJK Explorations Ltd.	2023-07-05
2021	157190	4285519	LORRAIN	RJK Explorations Ltd.	2026-03-10
2021	175091	4273040, 428187, 4282410	LORRAIN	RJK Explorations Ltd.	2024-10-03
2021	203195	4282401	LORRAIN	RJK Explorations Ltd.	2023-07-05
2021	210724	4282401	LORRAIN	RJK Explorations Ltd.	2023-07-05
2021	219399	4283611	LORRAIN	RJK Explorations Ltd.	2024-11-06
2021	234633	4281431, 4286185, 4286186	LORRAIN	RJK Explorations Ltd.	2024-12-15
2021	238289	4285519	LORRAIN	RJK Explorations Ltd.	2026-03-10
2021	252459	4286187	LORRAIN	RJK Explorations Ltd.	2024-04-06
2021	262530	4286185	LORRAIN	RJK Explorations Ltd.	2024-04-06
2021	329881	4282707, 4286187	LORRAIN	RJK Explorations Ltd.	2024-04-06
2021	343734	4283611	LORRAIN	RJK Explorations Ltd.	2024-11-06
2021	343852	4273040, 4285187	LORRAIN	RJK Explorations Ltd.	2024-10-03
2021	568012	N/A	LORRAIN	RJK Explorations Ltd.	2022-01-01
2021	568013	N/A	LORRAIN	RJK Explorations Ltd.	2022-01-01
2021	569259	N/A	LORRAIN	RJK Explorations Ltd.	2022-01-13

Note: The table is sorted in ascending order by cell number. N/A not applicable (no legacy claim exists for this cell number)

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.

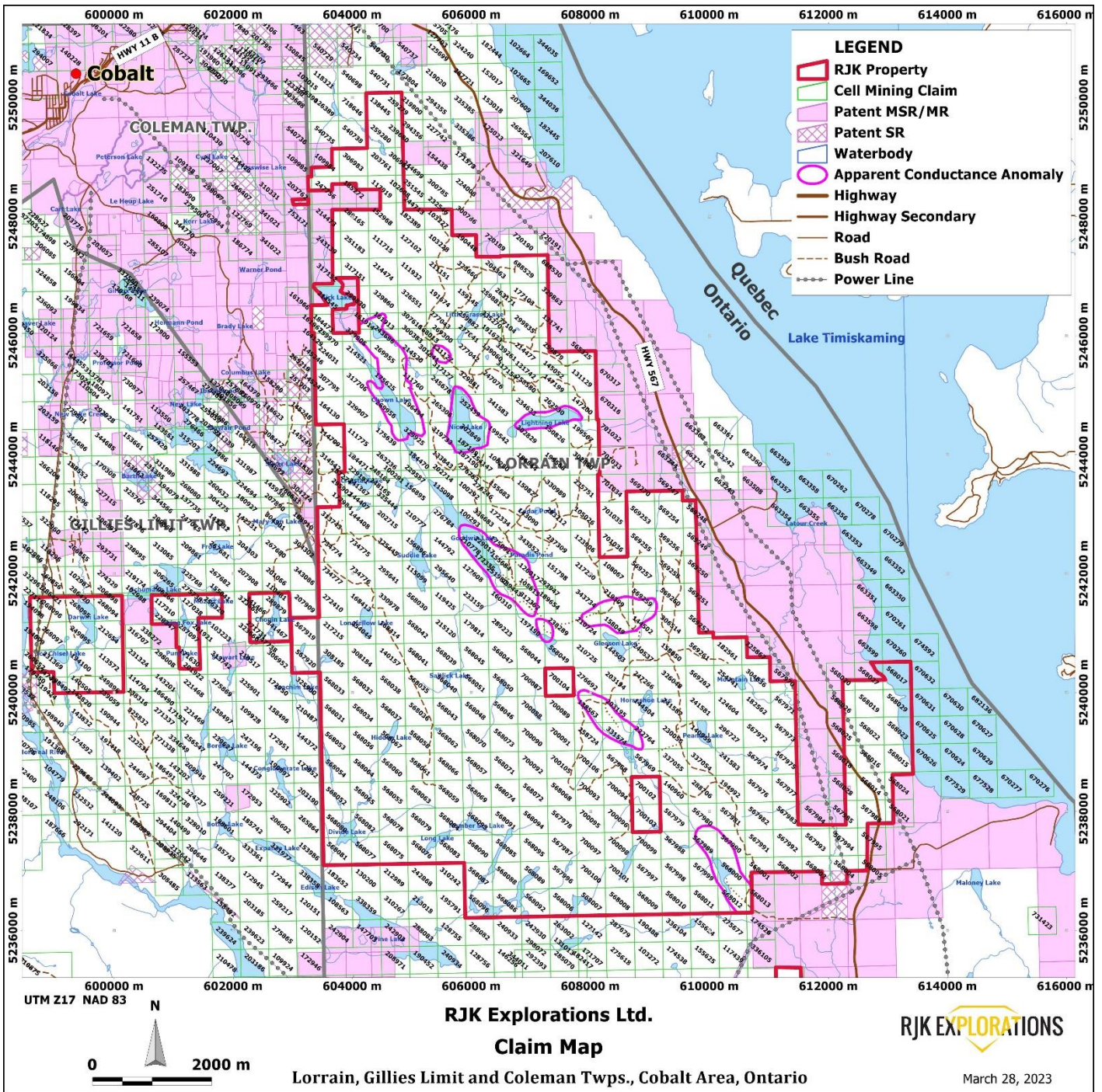


Figure 4.1: Glacial Bodies with KIM's depicted on Property claim map.

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 funneled 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.

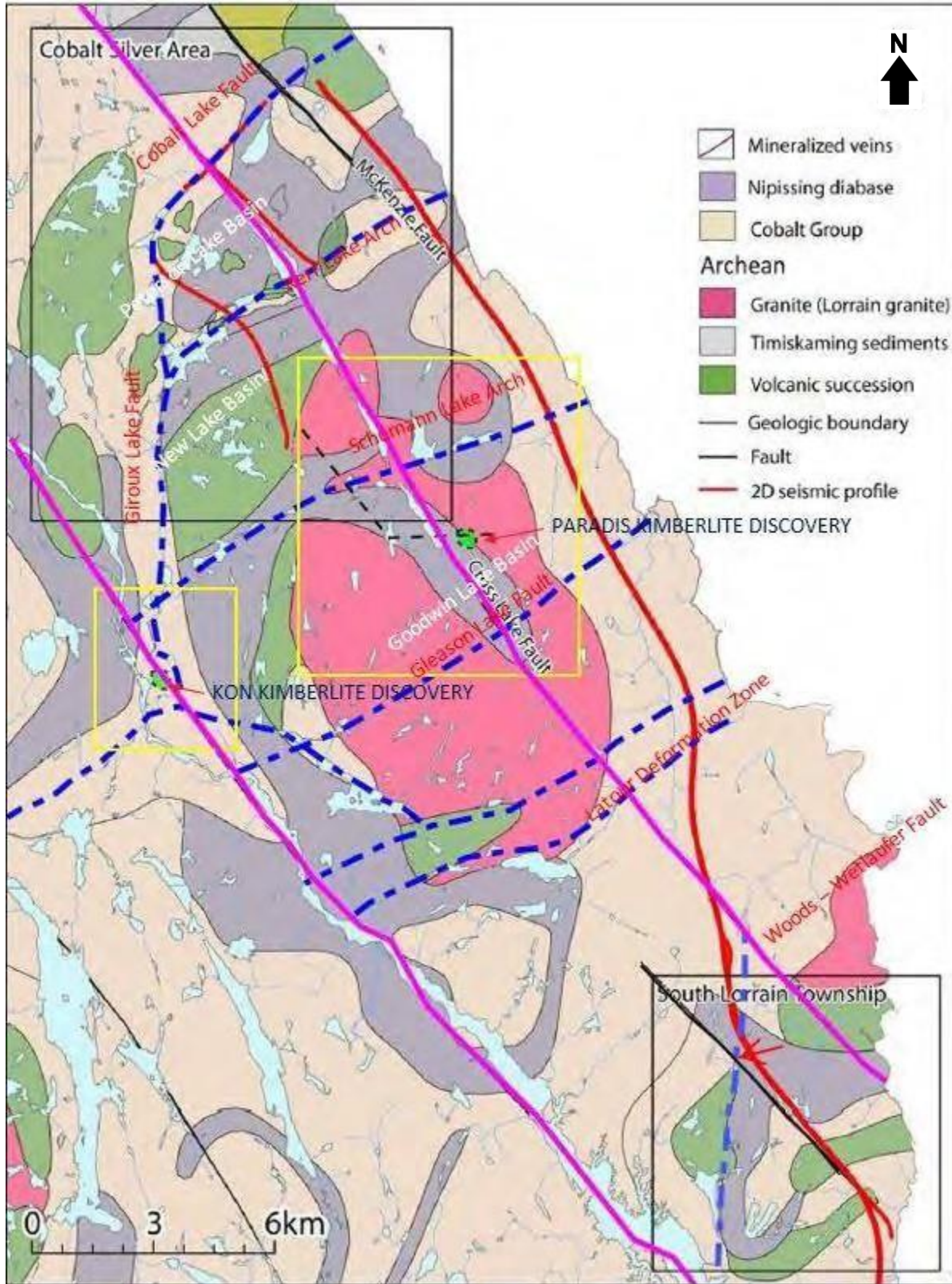


Figure 5.1: Cobalt Silver Area Geology and Structural Architecture – Modified from {MERC Cobalt Seismic Transect Release-2018}

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 Lorrain 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).

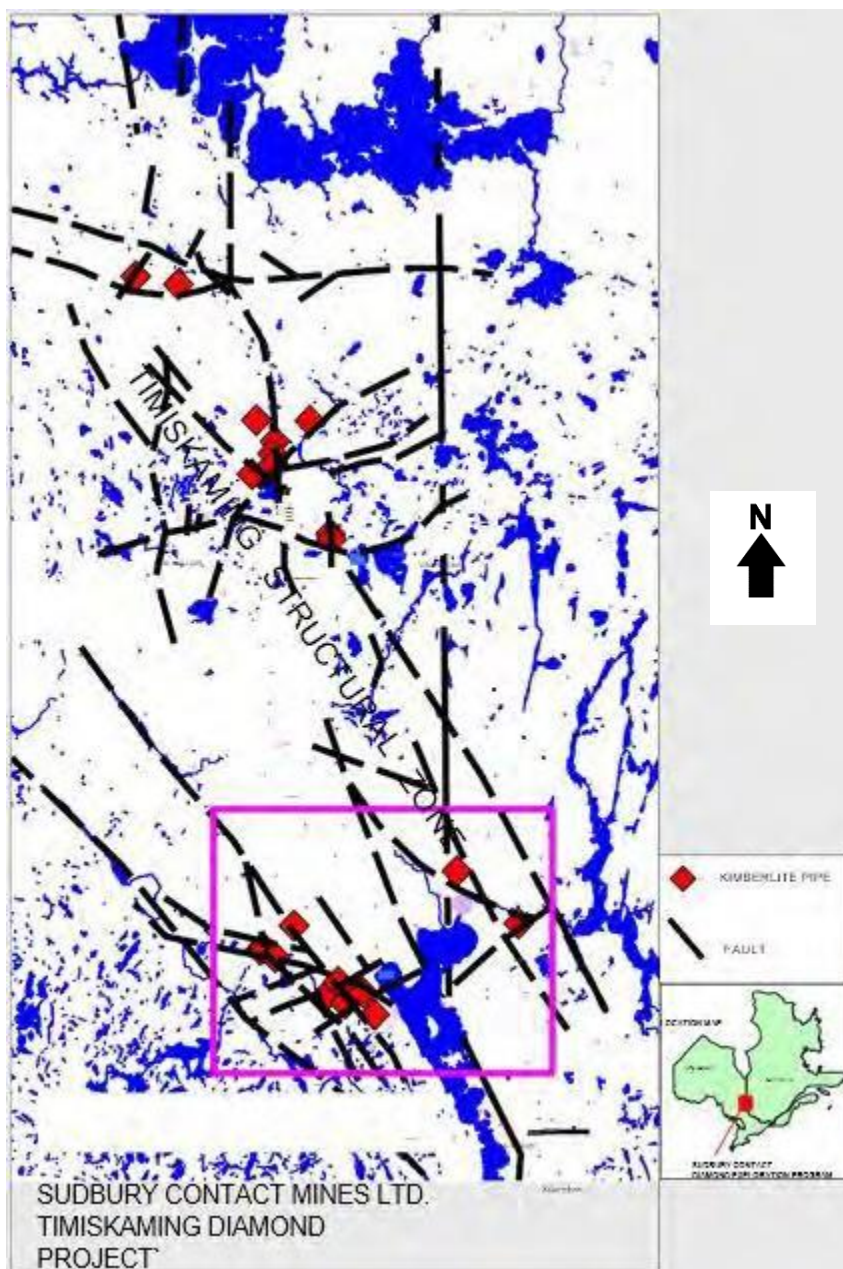


Figure 5.3a: Timiskaming Structural Zone showing Twin Lakes Kimberlites

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.

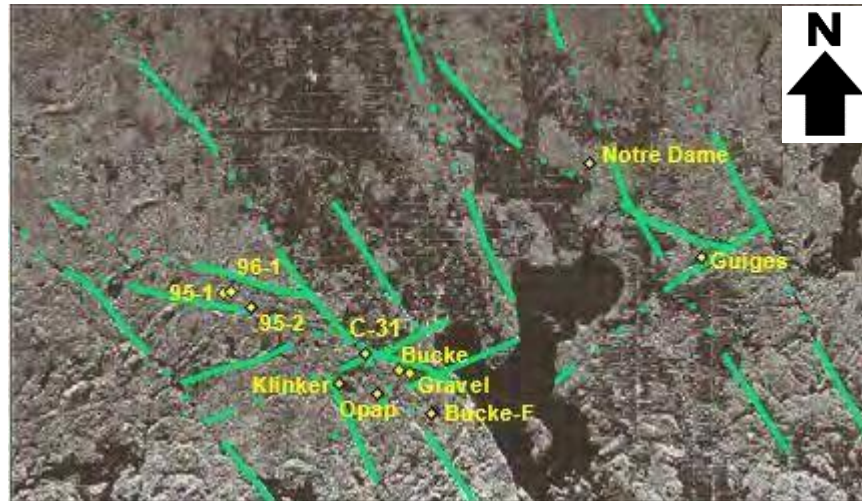


Figure 5.3b: Photo Lineament Structural Analysis of Twin Lakes Kimberlite Field

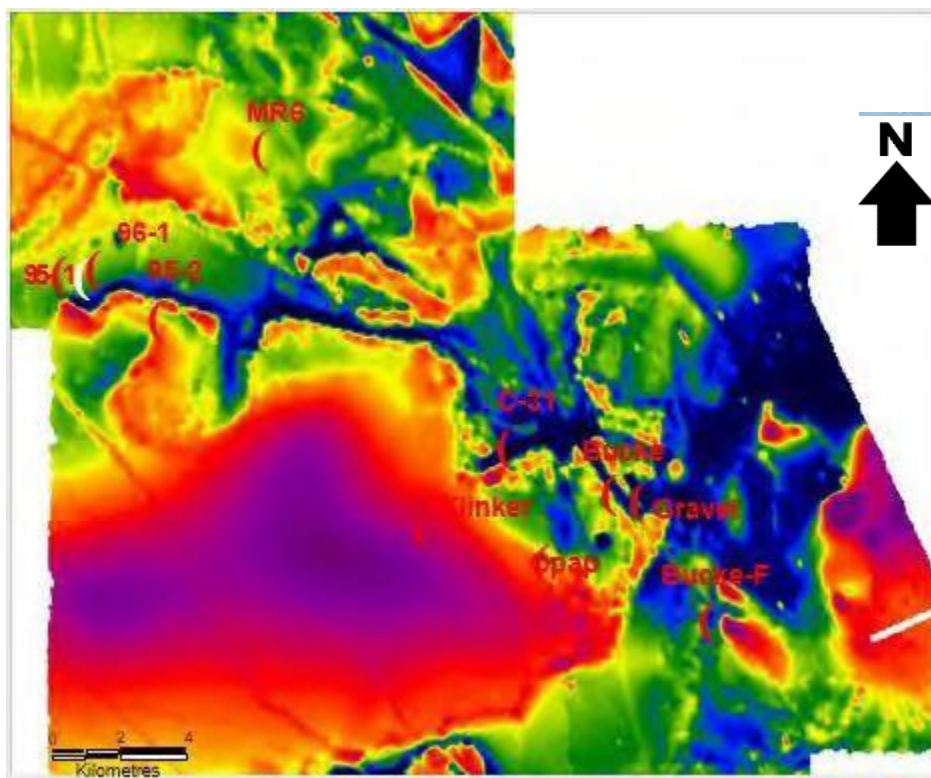


Figure 5.3c: Total Field Airborne Magnetics of Twin Lakes Kimberlite Field

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

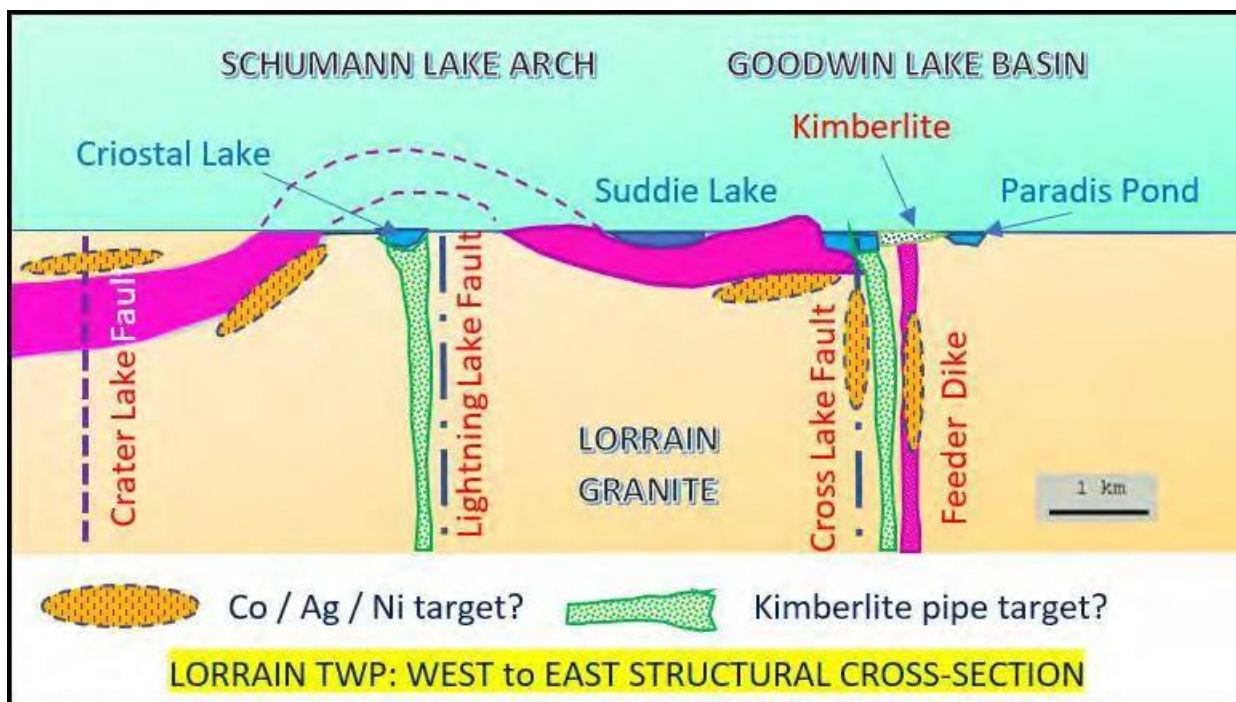


Figure 5.3d: Structural Cross-Section from Schumann Lake Arch to Goodwin Lake Basin

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 Lorrain 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 possibility for kimberlite fissure intrusions are shown proximal to the Cross Lake fault and Lightning Lake fault.

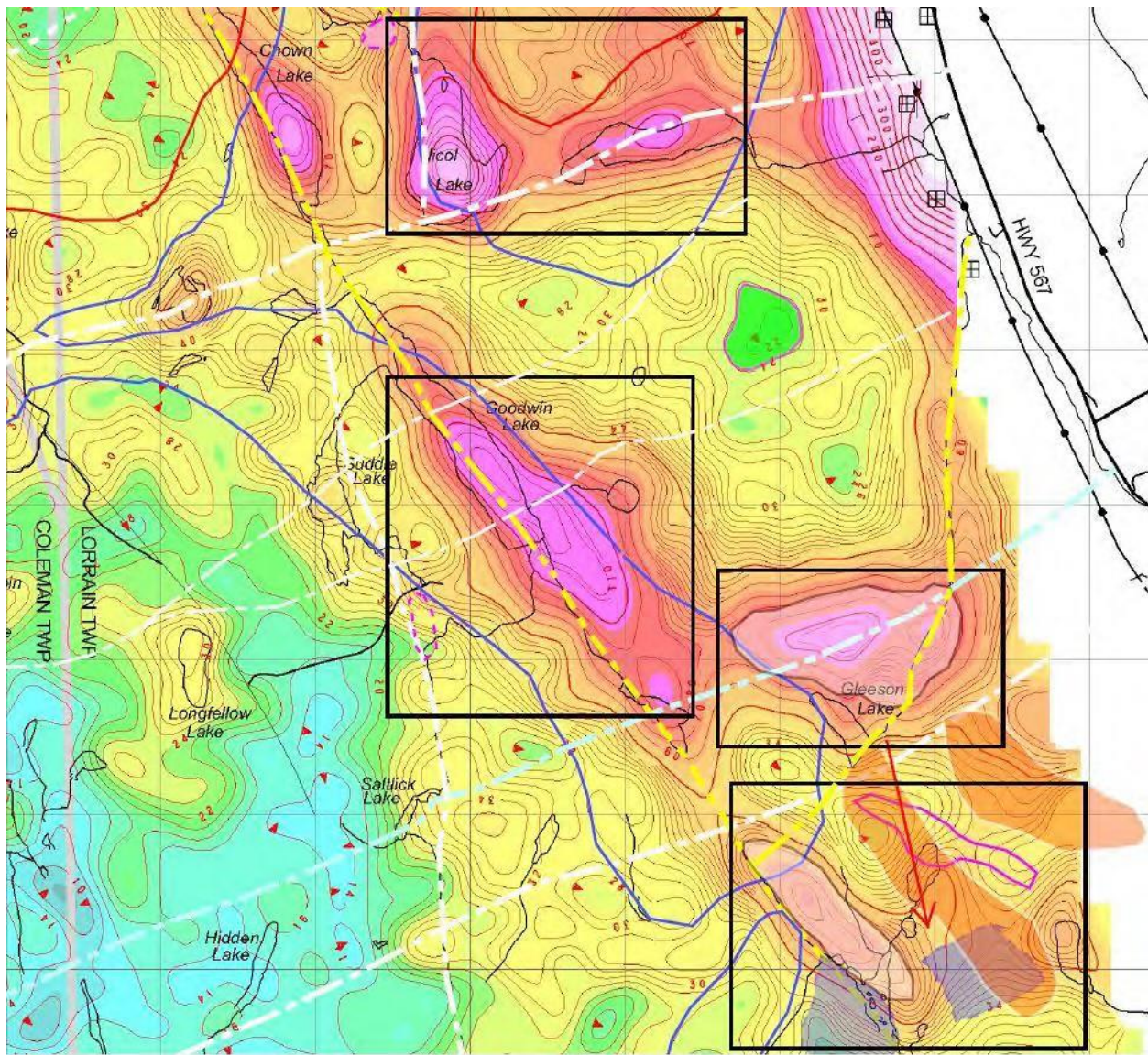


Figure 5.3e: Conductance EM Map showing signature of Nicol, Lightning, Paradis, Gleeson and HSM glacial bodies containing significant kimberlite indicator minerals.

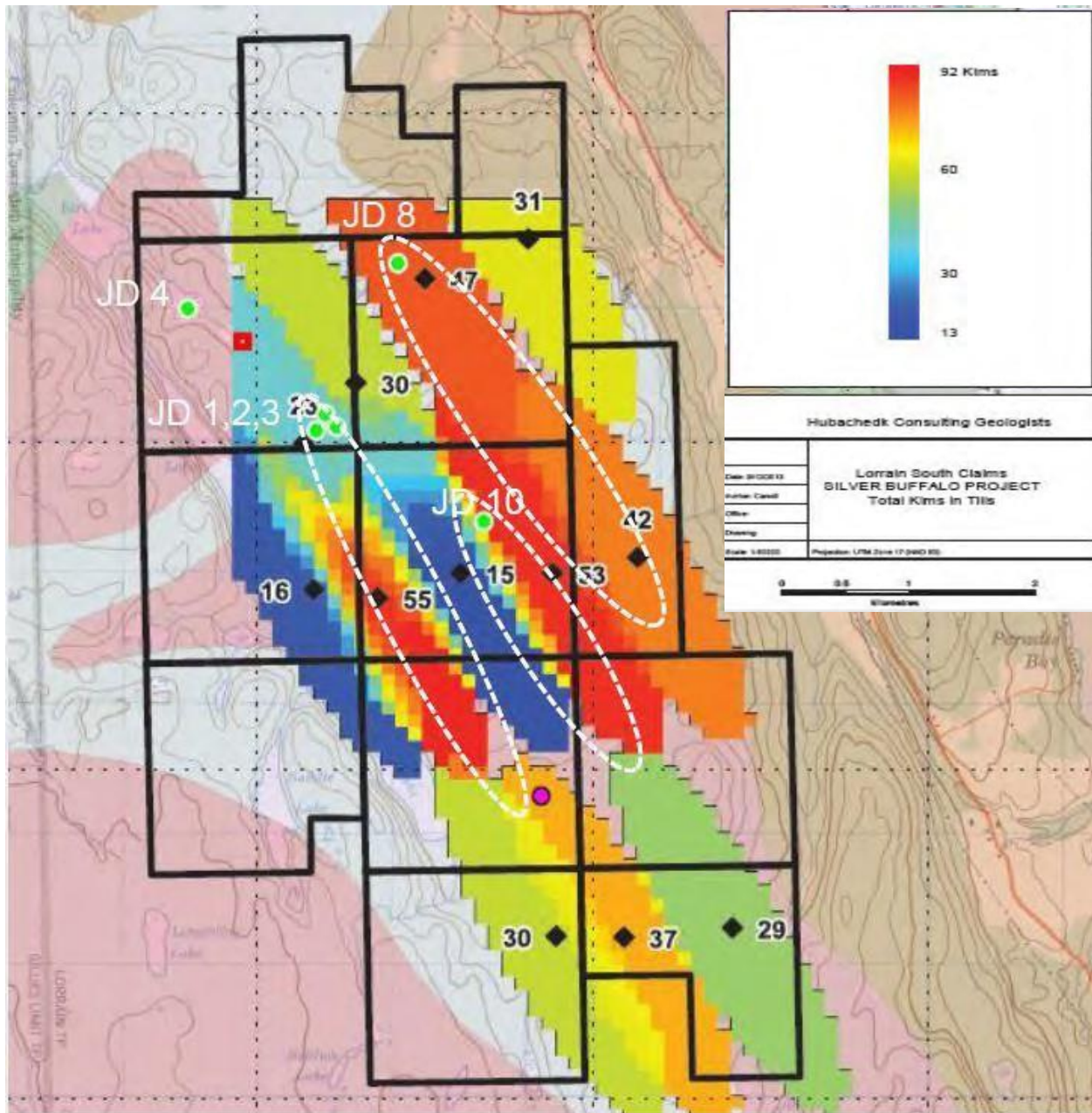


Figure 5.3f: Total KIMS in Tills showing Dispersion Trains in Nicol Lake Area – Silver Buffalo Project 2012

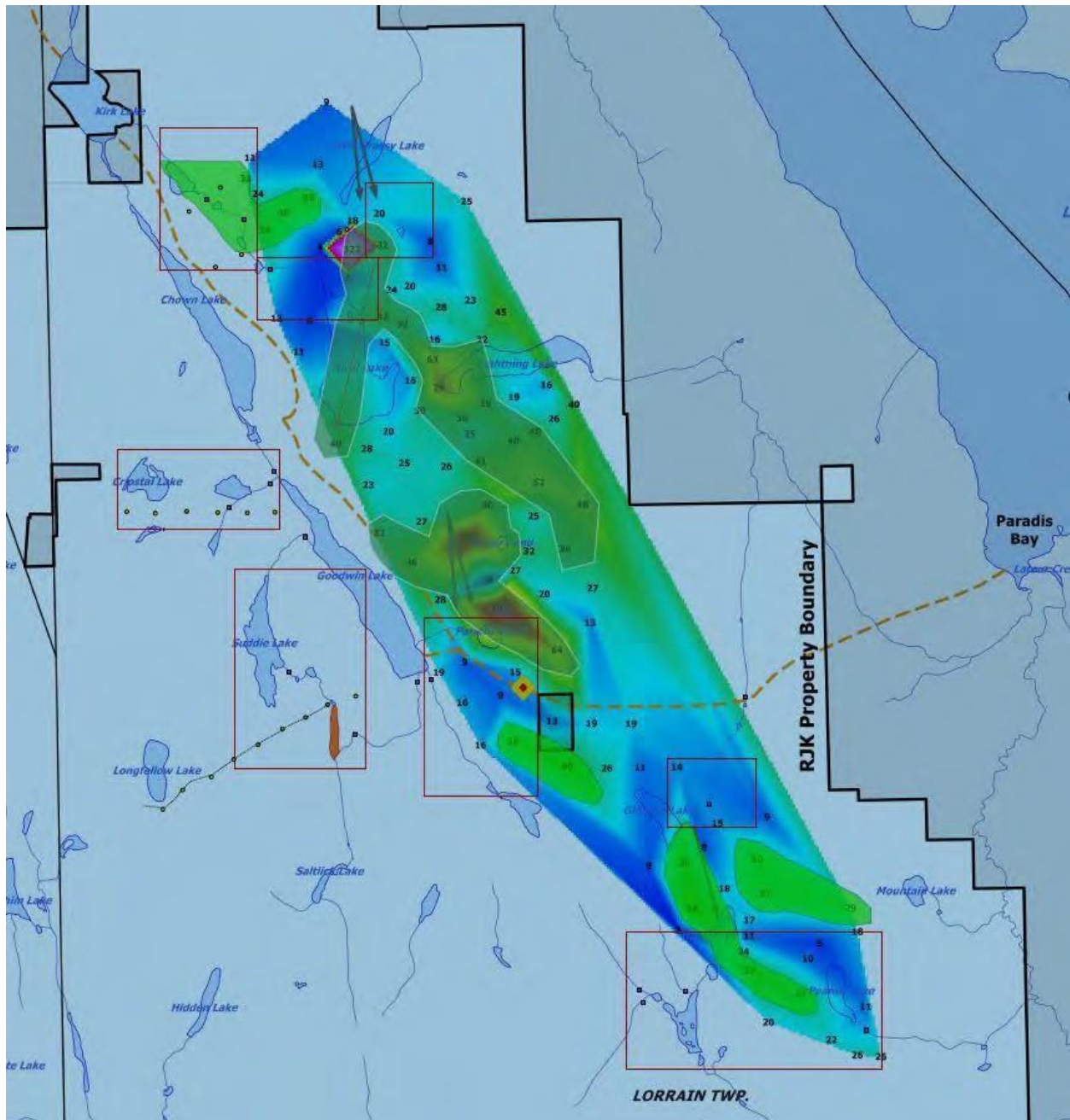


Figure 5.3g: Total KIMS in Tills showing Dispersion Trains in Lorrain Twp.– Bishop Till Sampling Project 2019

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 Reverse Circulation Drilling Program

7.1 2021 Reverse Circulation Drilling Program - Overview

RJK contracted a reverse circulation (RC) drill for its Lorrain Twp. properties, beginning January 4, 2021. RC Drilling was used for both initial exploration of potential kimberlite targets and diamond sampling of conductance glacial deposits, thus reducing RJK's overall discovery costs moving forward.

Previous small-diameter diamond drilling was meant to discover kimberlites and determine potential for diamonds. In 2020, a diamond drilling program tested six geophysical conductance anomalies discovering shallow bodies deposited by glacial processes at a stratigraphic position above bedrock but below a younger glacial till sheet (refer to Fig. 5.3e). However, overall recovery of the conductance glacial material containing kimberlite indicator minerals (KIMS) was poor. RJK's RC drill program recovered up to 100% of the unconsolidated glacial material containing kimberlite indicator minerals, in a faster, more cost-effective manner, while also being easier to maneuver around the property in the winter. RJK mobilized the RC drill for the purpose of diamond sampling and recovery, testing the Paradis, Robin's Place, Gleeson and HSM conductance bodies. The Company began RC drilling at Paradis Pond setting up a 16 hole test grid with 4m x 4m spacing in the vicinity of drill hole PP-20-04 based on positive kimberlite indicator minerals. The Gleeson, Robin's Place, HSM and Gravel Pit bodies employed spacing of 200 m along fences transecting each of these bodies. This sampling methodology will achieve better representative samples while obtaining larger amounts of material for processing. The Company engaged labs specializing in the best diamond recovery processes. Additionally, RJK's program was able to mobilize the RC drill to target areas that were previously too difficult to access with the small drill.

At Nicol, the first drill hole intersected 5m of conductance glacial material under 2m of overburden terminating in diabase bedrock at a depth of 7 m. A second hole intersected 4.4m of similar material under

2m of overburden. The intersections are located within an electromagnetic (EM) conductance target associated with Nicol Lake, with most of the target underlying the lake. Two holes failed to intersect the conductance body located on the margins of the anomaly.

The drilling commenced January 5th, 2021 and ended on March 23rd, 2021. A total of 1,956 meters in 93 drill holes were drilled during the period by Steve's Equipment Services Inc. (SES) of Sesequinika, Ontario. The exploration permit numbers for the work performed on the property are:

PR-20-000018, PR-20-000019,
PR-19-000070, PR-19-000071, PR-19-000076, PR-18-000247,
PR-20-000251, PR-20-000292, PR-20000293, PR-20-000297,
PR-19-000339, and PR-20-000348

7.1.1 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. SES used a track-mounted rotary drill with 3.5" diameter rods with an inner tube annulus of 1" diameter capable of drilling to a maximum depth of 50 meters. A track-mounted water carrier accompanied the drill rig supplying water pumped from local lakes or swamps. A D6 Caterpillar tractor was used for snow removal and levelling of drill pads. Drill pads were selected on pre-existing logging roads which were plowed in advance of mobilizing to various target areas. The drill was collared using GPS and compass at the drill site by an RJK Exploration Ltd. geologist. All Drill hole inclination were vertical holes.

7.1.2 Location of RC 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.

7.1.3 RC Drill Hole Information

Drill hole information is summarized in Table 7.1.3 with UTM co-ordinates in NAD 83 Zone 17. Geologist, Peter Hubacheck, P. Geo. supervised and participated with reverse circulation sample recovery operations in the field with drill hole logging and assisted by Tammy Huard, P. Geo.

Table 7.1.3: Summary of Drill Hole Information sorted by drilling dates. Coordinates shown are UTM NAD 83 Zone 17.

HOLE ID	EASTING	NORTHING	ELEV (m)	LENGTH (m)	AZIMUTH	DIP	Date Drilling Started	Date Drilling Ended	Samples Collected	Samples Assayed
PARADIS										
P-RCH-01	606452	5242391	332	9.0	360/180	-90	05-Jan-21	05-Jan-21	5	100%
P-RCH-02	606449	5242397	332	18	360/180	-90	05-Jan-21	05-Jan-21	9	composite
P-RCH-03	606451	5242396	332	16.5	360/180	-90	05-Jan-21	05-Jan-21	8	sample
P-RCH-04	606454	5242393	332	17.5	360/180	-90	06-Jan-21	06-Jan-21	8	
P-RCH-05	606437	5242401	331	16.5	360/180	-90	06-Jan-21	06-Jan-21	8	
P-RCH-06	606439	5242399	331	16.5	360/180	-90	06-Jan-21	06-Jan-21	7	
P-RCH-07	606441	5242395	331	16.5	360/180	-90	07-Jan-21	07-Jan-21	7	
P-RCH-08	606444	5242393	331	16.5	360/180	-90	07-Jan-21	07-Jan-21	7	
P-RCH-09	606448	5242389	331	16	360/180	-90	07-Jan-21	07-Jan-21	7	
P-RCH-10	606450	5242388	331	16.5	360/180	-90	08-Jan-21	08-Jan-21	6	
P-RCH-11	606453	5242385	331	16.5	360/180	-90	08-Jan-21	08-Jan-21	7	
P-RCH-12	606434	5242407	331	16.5	360/180	-90	08-Jan-21	08-Jan-21	7	
P-RCH-13	606443	5242389	331	17.5	360/180	-90	09-Jan-21	09-Jan-21	7	
P-RCH-14	606444	5242389	331	18	360/180	-90	09-Jan-21	09-Jan-21	7	
P-RCH-15	606448	5242383	331	17.5	360/180	-90	09-Jan-21	09-Jan-21	7	
P-RCH-16	606447	5242385	331	18	360/180	-90	10-Jan-21	10-Jan-21	7	
GLEESON										
GL-RCH-01A	608392	5241509	341	30.0	360/180	-90	10-Jan-21	10-Jan-21	2	100%
GL-RCH-01B	608396	5241509	341	30.0	360/180	-90	11-Jan-21	11-Jan-21	10	composite
GL-RCH-02A	608292	5241371	334	19.5	360/180	-90	11-Jan-21	11-Jan-21	5	sample
GL-RCH-02B	608282	5241360	334	16.5	360/180	-90	12-Jan-21	12-Jan-21	4	
GL-RCH-03A	608130	5241347	335	19.5	360/180	-90	12-Jan-21	13-Jan-21	6	
GL-RCH-03B	608103	5241272	334	19.5	360/180	-90	13-Jan-21	13-Jan-21	6	
GL-RCH-04A	608496	5241356	339	21.25	360/180	-90	13-Jan-21	13-Jan-21	6	
GL-RCH-04B	608490	5241352	339	21	360/180	-90	14-Jan-21	14-Jan-21	6	
GL-RCH-05A	608610	5241212	337	18.25	360/180	-90	14-Jan-21	14-Jan-21	5	
GL-RCH-05B	608605	5241204	337	17.5	360/180	-90	14-Jan-21	14-Jan-21	5	
GL-RCH-06A	608712	5241378	314	17.75	360/180	-90	14-Jan-21	15-Jan-21	5.5	
GL-RCH-06B	608709	5241392	315	21	360/180	-90	15-Jan-21	15-Jan-21	6.5	
GL-RCH-07A	608935	5241371	292	13.5	360/180	-90	15-Jan-21	15-Jan-21	3.5	
GL-RCH-07B	608923	5241381	293	13	360/180	-90	15-Jan-21	15-Jan-21	3.5	
GL-RCH-08A	608710	5241546	314	6	360/180	-90	16-Jan-21	16-Jan-21	1.5	
GL-RCH-08B	608699	5241465	314	26.5	360/180	-90	16-Jan-21	16-Jan-21	8	
GL-RCH-08C	608711	5241519	313	7.5	360/180	-90	16-Jan-21	16-Jan-21	2	
GL-RCH-09A	608758	5241135	309	9.5	360/180	-90	16-Jan-21	16-Jan-21	1.5	

GL-RCH-10A	607966	5241154	332	7.5	360/180	-90	21-Jan-21	21-Jan-21	2	
GL-RCH-10B	607927	5241262	330	24	360/180	-90	22-Jan-21	22-Jan-21	7	
HOLE ID	EASTING	NORTHING	ELEV (m)	LENGTH (m)	AZIMUTH	DIP	Date Drilling Started	Date Drilling Ended	Samples Collected	Samples Assayed
ROBIN'S PLACE										
RP-RCH-01A	607247	5240997	319	50	360/180	-90	22-Jan-21	23-Jan-21	16	100%
RP-RCH-01B	607263	5241009	319	54	360/180	-90	23-Jan-21	24-Jan-21	17	composite
RP-RCH-02A	607386	5241008	321	28.75	360/180	-90	25-Jan-21	25-Jan-21	9	sample
RP-RCH-02B	607379	5241011	321	28	360/180	-90	25-Jan-21	25-Jan-21	9	
RP-RCH-03A	607209	5241060	322	49.5	360/180	-90	26-Jan-21	26-Jan-21	17	
RP-RCH-03B	604212	5241063	322	46	360/180	-90	27-Jan-21	27-Jan-21	15	
LIGHTNING										
LL-RCH-01A	607249	5244672	302	10	360/180	-90	17-Jan-21	17-Jan-21	2.5	100%
LL-RCH-01B	607244	5244679	305	5	360/180	-90	17-Jan-21	17-Jan-21	1	100%
LL-RCH-02A	607306	5244788	311	3	360/180	-90	17-Jan-21	17-Jan-21	0	No sample
LL-RCH-02B	607254	5244768	311	3	360/180	-90	18-Jan-21	18-Jan-21	0	No sample
LL-RCH-03A	607141	5244884	321	3.5	360/180	-90	18-Jan-21	18-Jan-21	0.	No sample
LL-RCH-04A	607510	5244855	308	3.5	360/180	-90	18-Jan-21	18-Jan-21	0	No sample
LL-RCH-05A	607045	5244709	305	5.5	360/180	-90	19-Jan-21	19-Jan-21	0	No sample
LL-RCH-05B	607044	5244709	306	5.5	360/180	-90	19-Jan-21	19-Jan-21	0	No sample
NICOL LAKE										
NL-RCH-01A	605917	5245052	313	4	360/180	-90	19-Jan-21	19-Jan-21	0	No sample
NL-RCH-02A	606009	5244913	316	4.5	360/180	-90	19-Jan-21	19-Jan-21	0	No sample
NL-RCH-03A	605976	5244736	311	6	360/180	-90	20-Jan-21	20-Jan-21	1.5	100%
NL-RCH-03B	606012	5244768	313	6.5	360/180	-90	20-Jan-21	20-Jan-21	2	100%
HSM										
HSM-RCH-01A	607999	5239879	343	32.25	360/180	-90	06-Feb-21	07-Feb-21	23	100%
HSM-RCH-01B	607956	5239867	341	25.5	360/180	-90	07-Feb-21	07-Feb-21	9	composite
HSM-RCH-02A	608099	5239842	346	34.75	360/180	-90	05-Feb-21	05-Feb-21	12	sample
HSM-RCH-02B	608050	5239863	344	41	360/180	-90	06-Feb-21	06-Feb-21	14	
HSM-RCH-03A	608263	5239787	346	36.75	360/180	-90	04-Feb-21	04-Feb-21	13	
HSM-RCH-03B	608227	5239810	347	24.75	360/180	-90	04-Feb-21	05-Feb-21	8	
HSM-RCH-04A	608269	5239676	340	57.5	360/180	-90	03-Feb-21	03-Feb-21	23	
HSM-RCH-05A	608356	5239586	334	40.5	360/180	-90	01-Feb-21	01-Feb-21	13	
HSM-RCH-05B	608317	5239642	337	60.5	360/180	-90	02-Feb-21	02-Feb-21	20	
HSM-RCH-06A	608462	5239432	320	27.75	360/180	-90	30-Jan-21	31-Jan-21	23	
HSM-RCH-06B	608427	5239485	324	19.5	360/180	-90	31-Jan-21	31-Jan-21	7	
HSM-RCH-07A	608479	5239242	314	46	360/180	-90	28-Jan-21	29-Jan-21	21	
HSM-RCH-07B	608477	5239360	317	49	360/180	-90	29-Jan-21	29-Jan-21	11	
GRAVEL PIT										
GP-RCH-01A	610680	5236359	266	34.5	360/180	-90	08-Feb-21	09-Feb-21	9	100%

GP-RCH-02A	610613	5236426	274	46.5	360/180	-90	09-Feb-21	09-Feb-21	13	composite
GP-RCH-02B	610597	5236497	273	28	360/180	-90	09-Feb-21	10-Feb-21	5	sample
HOLE ID	EASTING	NORTHING	ELEV (m)	LENGTH (m)	AZIMUTH	DIP	Date Drilling Started	Date Drilling Ended	Samples Collected	Samples Assayed
GP-RCH-03A	610603	5236586	277	33	360/180	-90	10-Feb-21	10-Feb-21	7	
GP-RCH-03B	610623	5236628	278	31.5	360/180	-90	10-Feb-21	11-Feb-21	5	
GP-RCH-04A	610480	5236522	273	24.25	360/180	-90	11-Feb-21	11-Feb-21	5	
GP-RCH-04B	610488	5236556	275	36	360/180	-90	11-Feb-21	12-Feb-21	8	
GP-RCH-05A	610364	5236695	271	22.5	360/180	-90	12-Feb-21	12-Feb-21	5	
GP-RCH-06A	610530	5236734	274	29.25	360/180	-90	12-Feb-21	13-Feb-21	11	
PARADIS BEAVER DAM										
PBD-RCH-01A	606718	5242374	344	9	360/180	-90	18-Mar-21	18-Mar-21	8	
PBD-RCH-01B	606722	5242372	344	12	360/180	-90	18-Mar-21	18-Mar-21	4	100%
PBD-RCH-02A	606723	5242378	344	13.5	360/180	-90	18-Mar-21	18-Mar-21	4	composite
PBD-RCH-02B	606718	5242384	344	13	360/180	-90	18-Mar-21	18-Mar-21	4	sample
PBD-RCH-03A	606724	5242413	344	12.25	360/180	-90	18-Mar-21	18-Mar-21	3	
PBD-RCH-04A	606739	5242410	344	10.5	360/180	-90	19-Mar-21	19-Mar-21	2	
PBD-RCH-04B	606786	5242405	345	7	360/180	-90	19-Mar-21	19-Mar-21	2	
PBD-RCH-05A	606718	5242361	344	11	360/180	-90	19-Mar-21	19-Mar-21	3	
PBD-RCH-05B	606750	5242272	344	17.75	360/180	-90	19-Mar-21	19-Mar-21	5	
PBD-RCH-06A	606761	5242241	345	15.75	360/180	-90	20-Mar-21	20-Mar-21	4	
PBD-RCH-06B	606765	5242255	345	16.75	360/180	-90	20-Mar-21	20-Mar-21	5	
PBD-RCH-07A	606776	5242284	345	15	360/180	-90	21-Mar-21	21-Mar-21	4	
PBD-RCH-07B	606779	5242237	345	15.75	360/180	-90	21-Mar-21	21-Mar-21	4	
PBD-RCH-08	606703	5242311	342	19.5	360/180	-90	22-Mar-21	22-Mar-21	5	
PBD-RCH-09	606757	5242187	344	17	360/180	-90	22-Mar-21	22-Mar-21	6	
PBD-RCH-10	606793	5242185	345	14.75	360/180	-90	23-Mar-21	23-Mar-21	4	
PBD-RCH-11	606716	5242427	344	10.75	360/180	-90	23-Mar-21	23-Mar-21	3	

Table 7.1.3A: Summary of RC Drill Holes with 100% of Recovered Material Processed

Glacial Body with KIM's	RC Holes-100% Sampled	CFM / Microlithics Lab Processed Material (kg)
PARADIS BEAVER DAM	17	864
GLEESON	20	1536
ROBIN'S PLACE	6	1131
HSM	13	2522
LIGHTNING	2	22
NICOL	2	56
GRAVEL PIT	2	1266
PARADIS GRID	16	1070

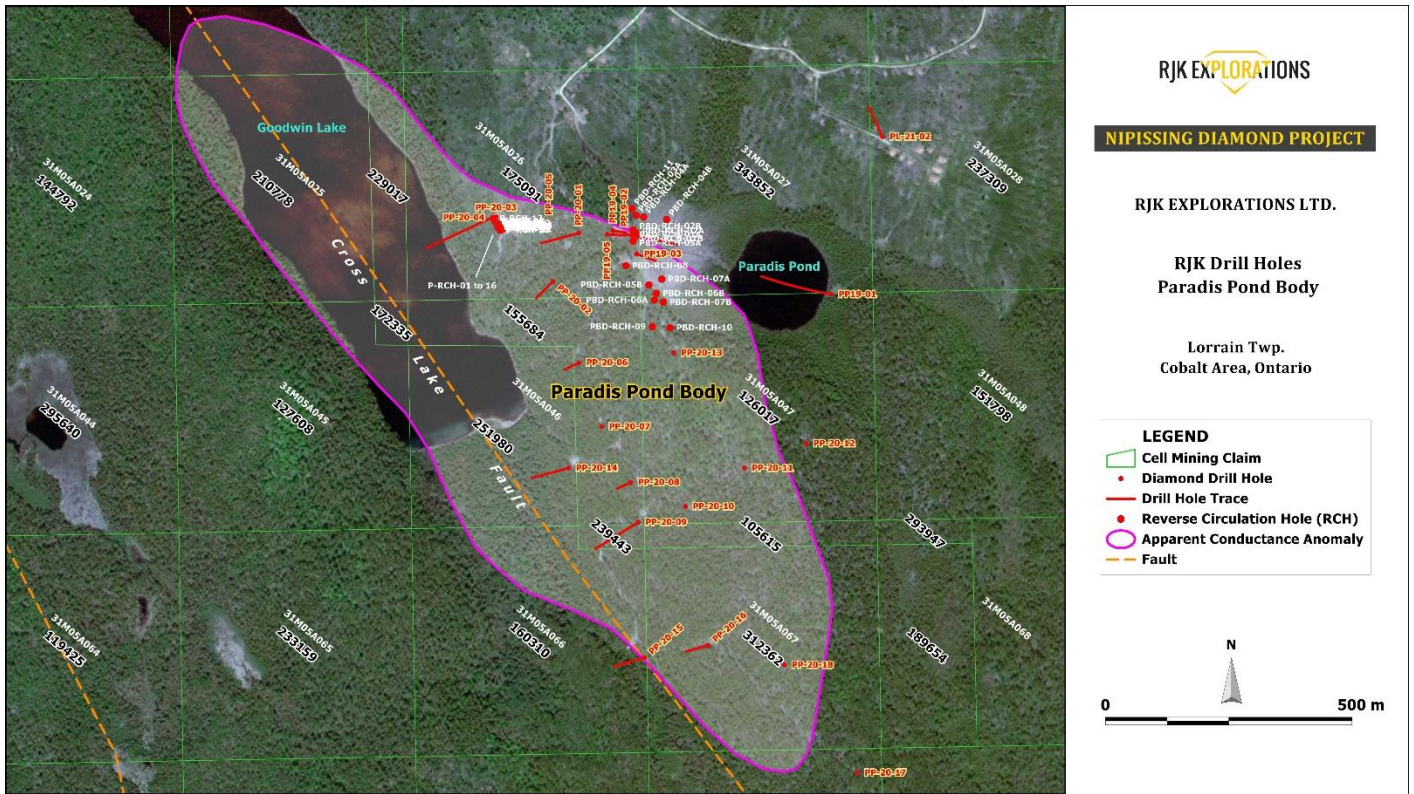


Figure 7.1.3.1: Paradis Grid and Beaver Dam Drill Hole Location Map



Figure 7.1.3.2: Gleeson and Robin's Place Drill Hole Location Map

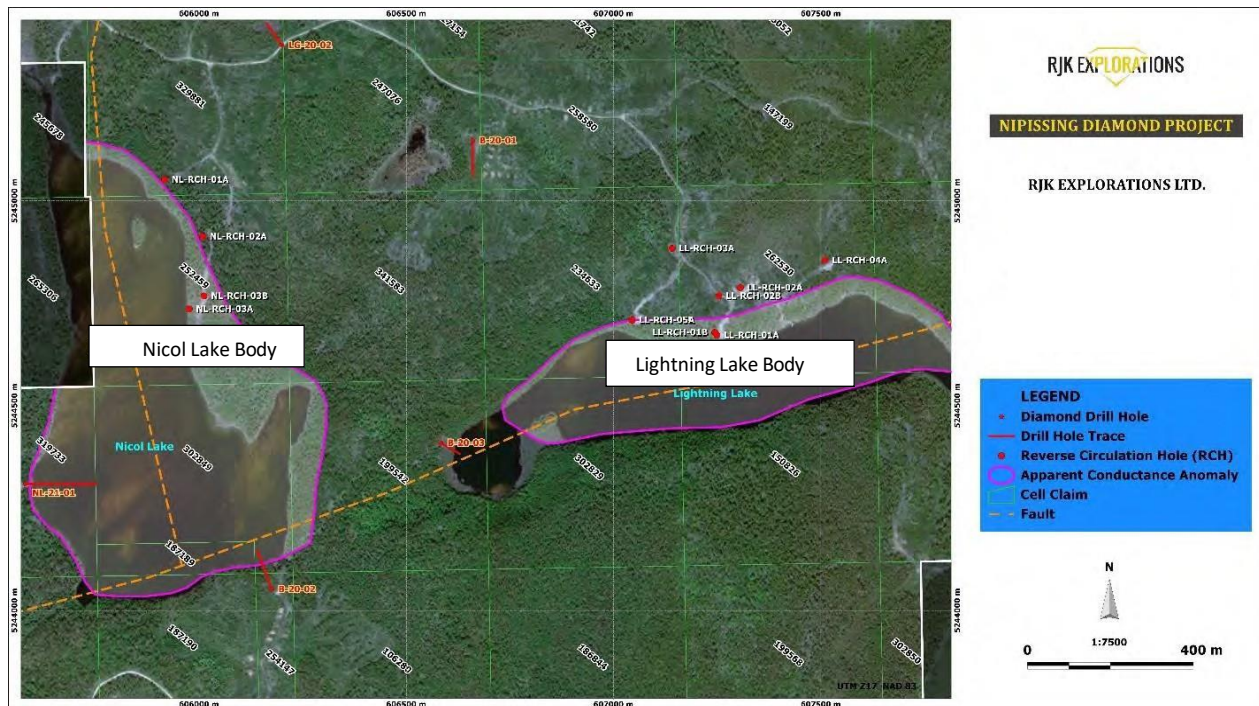


Figure 7.1.3.3: Nicol Lake and Lightning Lake Drill Hole Location Map

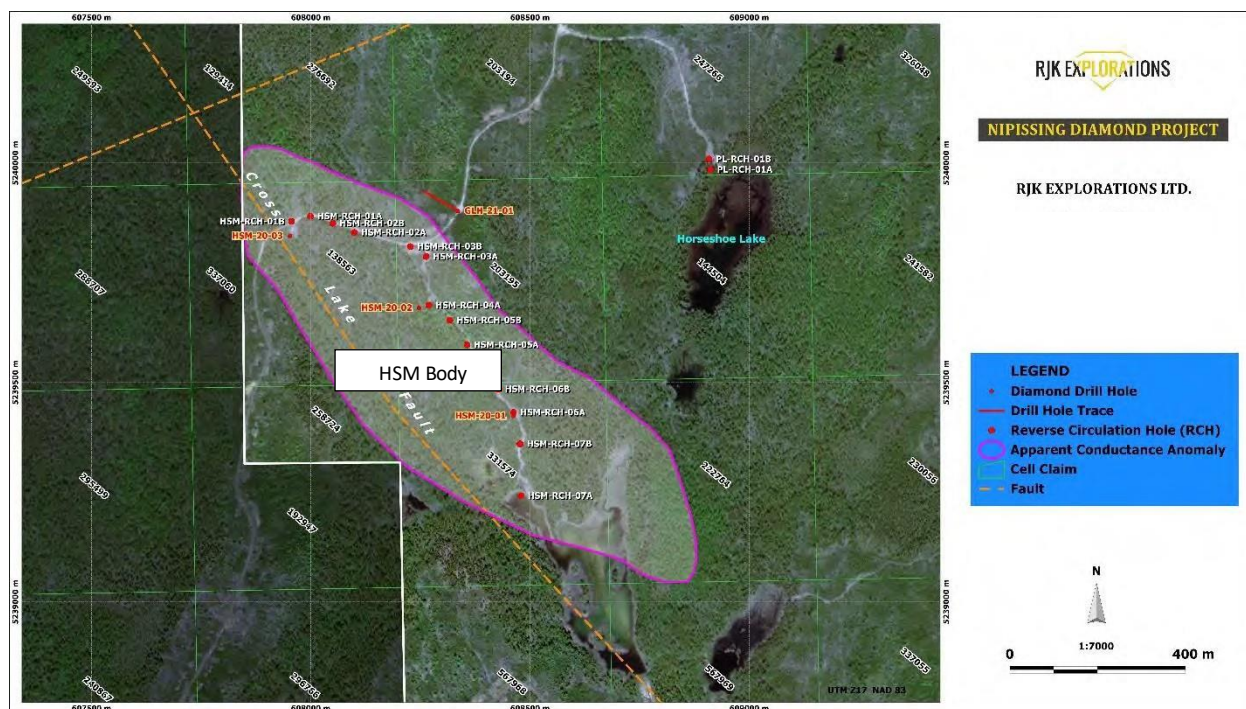


Figure 7.1.3.4: HSM Drill Hole Location Map

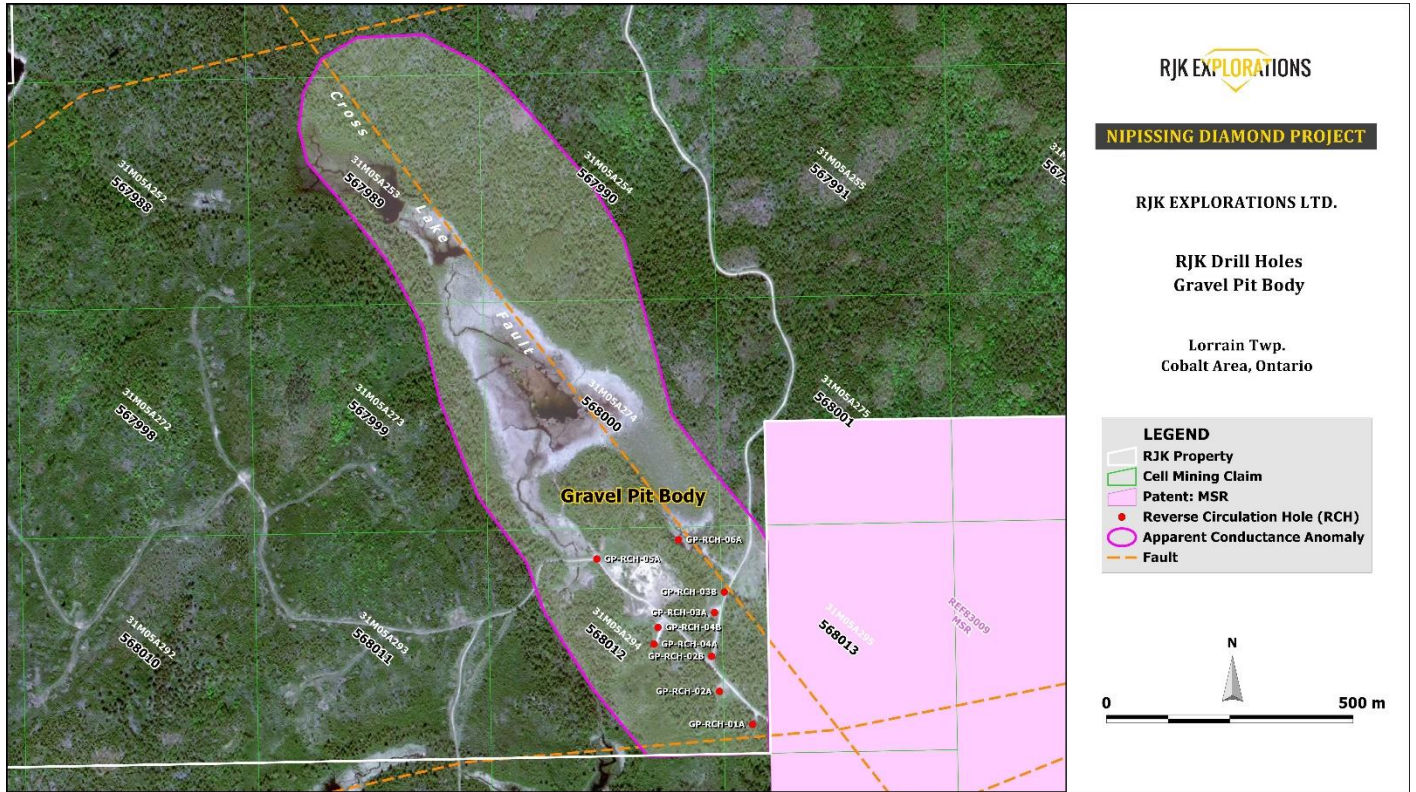


Figure 7.1.3.5: Gravel Pit Drill Hole Location Map

8.0 Results

8.1 Description of RC Sampling Methodology

RJK's project Geologist, Tammy Huard (see photo) is preparing the sample bucket lined with burlap to receive the unconsolidated and indurated overburden material passing through the cyclone then filters through a 3 pale decant system. The coarser cuttings are captured on a sieve for visual analysis and noting the colour of the return water which is recycled in the drilling process. The colour of the return water helps to determine the contact between the overlying unconsolidated glacial sand and gravel layer (OB1) with the underlying indurated glacial till layer (OB2) containing significant kimberlite indicator minerals. The cuttings from bedrock were discarded except for retaining 1 kg representative sample. The RC holes were terminated in bedrock to depths of 0.5 m. The geologist takes a few scoops of the coarse material during the sample run and a scoop of the finer material which is discharged into the sample bucket. Representative geological samples are stored in a core facility for logging with a binocular microscope. During the sampling process, the geologist identifies, and records large glacial clasts observed in core samples greater than 3 cm. The finer sandy, green clay matrix passes through the sieve and forms most of the bulk sample for each run including fine cuttings in the decant buckets.

At RJK's core facility located in Haileybury, large composite samples were created by transferring the cuttings for each hole, then transferring to 45-gallon drums. The individual pails from the field were weighed before transferring to the drums. The total shipping weight of all drums recorded by the labs is considered to be the "composite weight"



Figure 8.1: Sampling decant pales.

8.2 2021 Paradis Grid RC Drilling Processing Results

A 16 hole RC drilling campaign was initiated in the vicinity of drill hole PP-20-04 using a 16 m x 16 m testing array. RC drilling using 3.5" rod diameter recovered 1,070 kg which was processed by Microlithics using their DMS plant. A 36 kg concentrate was produced and then fired in a caustic fusion process to recover diamonds. No diamonds were recovered.

8.3 2021 Gleeson RC Drilling Processing Results

A 1,536 kg RC sample was processed by Microlithics and a 54 kg core sample by CFM, for a picking weight from 157 g of heavy mineral concentrates, 1,412 grains were picked and 193 probed and classified into 6 diamond indicator minerals: 8 were diamond inclusion olivine forsterites, 3 were G9 eclogitic garnets, 4 were diamond inclusion clinopyroxenes and 2 were diamond inclusion chromites, all formed in the diamond stability field along with the diamonds. There were 3 (.106 microns) microdiamonds recovered from the 54 kg drill core sample. Analysis of the 64 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 669°C to 1411°C. Refer to Figure 8.2 Cr₂O₃ / MgO plot at the end of this section.

8.4 2021 Robin's Place RC Drilling Processing Results

A 6 hole RC drilling campaign was initiated over the Robin's Place conductance anomaly utilizing a N/S and E/W drill fence array with 200 m spacing between holes. RC drilling using 3.5" rod diameter recovered 1,131 kg which was processed by Microlithics using their DMS plant. A 16.5 kg concentrate was produced and then fired in a caustic fusion process to recover diamonds. No diamonds were recovered.

A 1,119.7 kg RC sample was processed at Microlithics to a concentrate then processed by CFM for a picking weight of 104 g of heavy mineral concentrates. 1,673 grains were picked and 142 grains probed and classified into 6 diamond indicator minerals, 1 was a G9 eclogitic garnet, 10 were diamond inclusion clinopyroxenes, all formed in the diamond stability field along with the diamonds.

8.5 2021 Lightning Lake RC Drilling Processing Results

A picking weight from 405 g of heavy mineral concentrates was taken from a 22 kg RC sample. 1,609 grains were picked and 258 grains probed and classified into 6 diamond indicator minerals: 14 were diamond inclusion olivine forsterites, 5 were G9 eclogitic garnets, 12 were diamond inclusion clinopyroxenes, all formed in the diamond stability field along with the diamonds. There were no microdiamonds recovered from the 22 kg drill core sample. Analysis of the 1,267 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 744°C to 1481°C.

8.6 2021 Nicol Lake RC Drilling Processing Results

From a 56 kg RC sample, a picking weight from 670 g of heavy mineral concentrates, 3,386 grains were picked and 171 grains probed and classified into 6 diamond indicator minerals: 14 were diamond inclusion olivine forsterites, 5 were G10-2 peridotitic garnets, 1 was a diamond inclusion G11 garnet, 4 were

diamond inclusion clinopyroxenes and 5 were diamond inclusion chromites, all formed in the diamond stability field along with the diamonds. There were no microdiamonds recovered from the 56 kg RC drilling sample. Nicol's Forsterite megacrysts suggest a very deep source, based on the Mg vs. Fe content of the olivine. Analysis of the 102 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 1174°C to 1318°C.

8.7 2021 HSM RC Drilling Processing Results

From a 2,522 kg RC sample, a picking weight from 935 g from 41 kg of heavy mineral concentrates, 1,272 grains were picked and 478 grains probed and classified into 6 diamond indicator minerals: 31 were diamond inclusion olivine forsterites, 22 were G9 eclogitic garnets, 1 was a diamond inclusion G11-1 garnet, and 1 was a diamond inclusion chromite, all formed in the diamond stability field along with the diamonds. There were no microdiamonds recovered from these concentrates. Analysis of the 127 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 669°C to 1411°C.

8.8 2021 Gravel Pit RC Drilling Processing Results

From a 1,266 kg RC sample, a picking weight from 538 g from 14 kg of heavy mineral concentrates, 1,156 grains were picked and 582 grains probed and classified into 6 diamond indicator minerals: 25 were diamond inclusion olivine forsterites, 37 were G9 eclogitic garnets, 6 were diamond inclusion G11-1 garnets, 5 were diamond inclusion clinopyroxenes and 1 was a diamond inclusion chromite, all formed in the diamond stability field along with the diamonds. There were no microdiamonds recovered from these concentrates. Analysis of the 333 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 918°C to 1105°C.

8.9 2021 Paradis Beaver Dam RC Drilling Processing Results

From A 864 kg RC samples, 717 g of heavy mineral concentrates were then picked for a weight of 179 g, of which 1,311 grains were picked and 243 grains probed and classified into 6 diamond indicator minerals: 2 were diamond inclusion olivine forsterites, 3 were G9 eclogitic garnets, 1 was a diamond inclusion G11-1 garnet, and 1 was a diamond inclusion chromite, all formed in the diamond stability field along with the diamonds. There were no microdiamonds recovered from the 864 kg RC drilling sample. Analysis of the 1,267 picro-ilmenite microcrysts indicate reducing conditions suitable for diamond preservation in the magmas of kimberlite and lamproite affinity with crystallization temperatures ranging from 669°C to 1411°C.

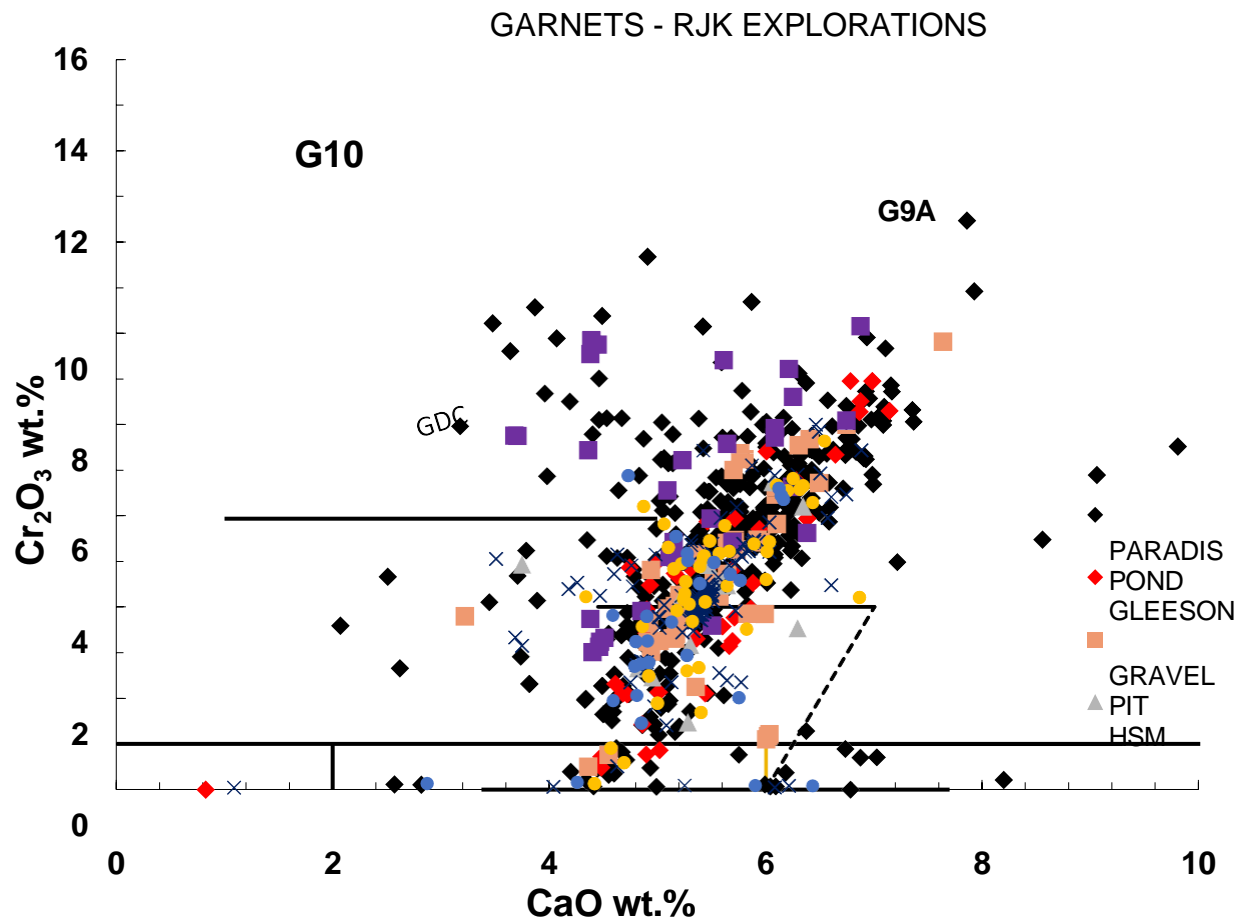


Figure 8.2 Garnet plot showing the grains above the GDC (graphite/diamond Gruter line). The three G12 plots on the right of the graph are rare, with high calcium weights, and indicate a mantle source. The high chromium G9A plots are indicative of diamond bearing kimberlites. The eclogitic garnets plotting along the bottom of the chart are sodium-rich, and often indicative of kimberlites from subducted oceanic crust and upper mantle locations.

9.0 Descriptions of Drill Holes

Upon completion of a drill hole, geologists completed logs for geological observations. The drill logs can be found in Appendix B.

10.0 Drill Hole Cross-Section Fences

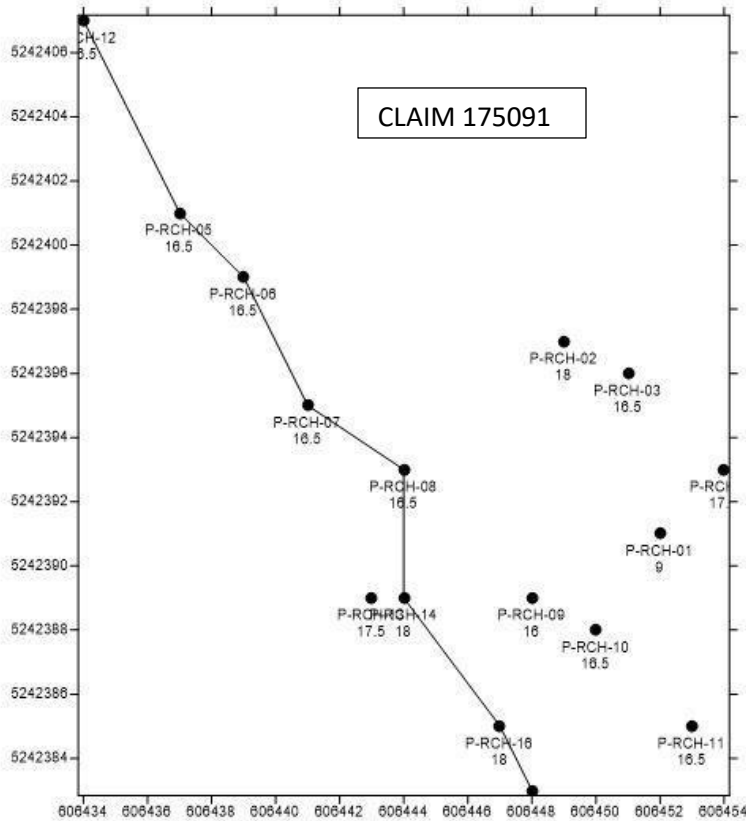
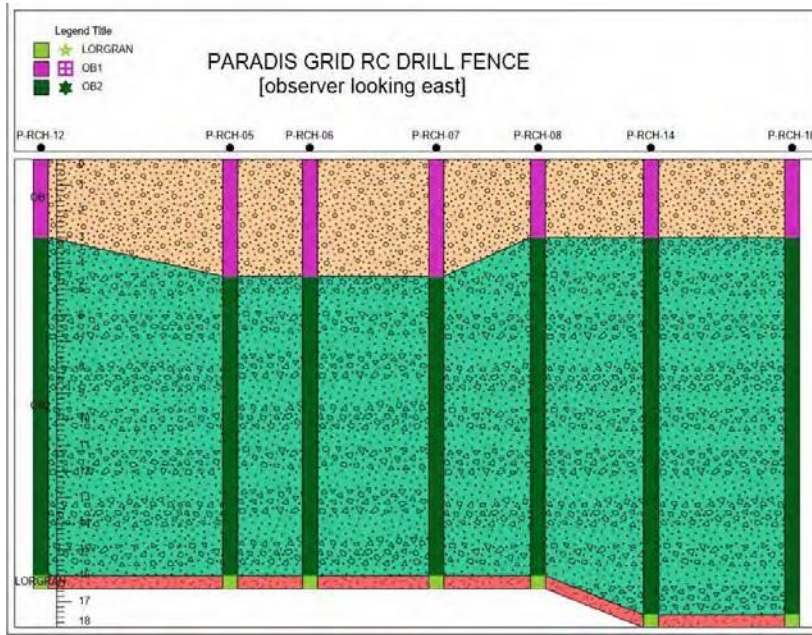


Figure 10.1: Paradis Grid RC Typical Drill Fence and Plan Map

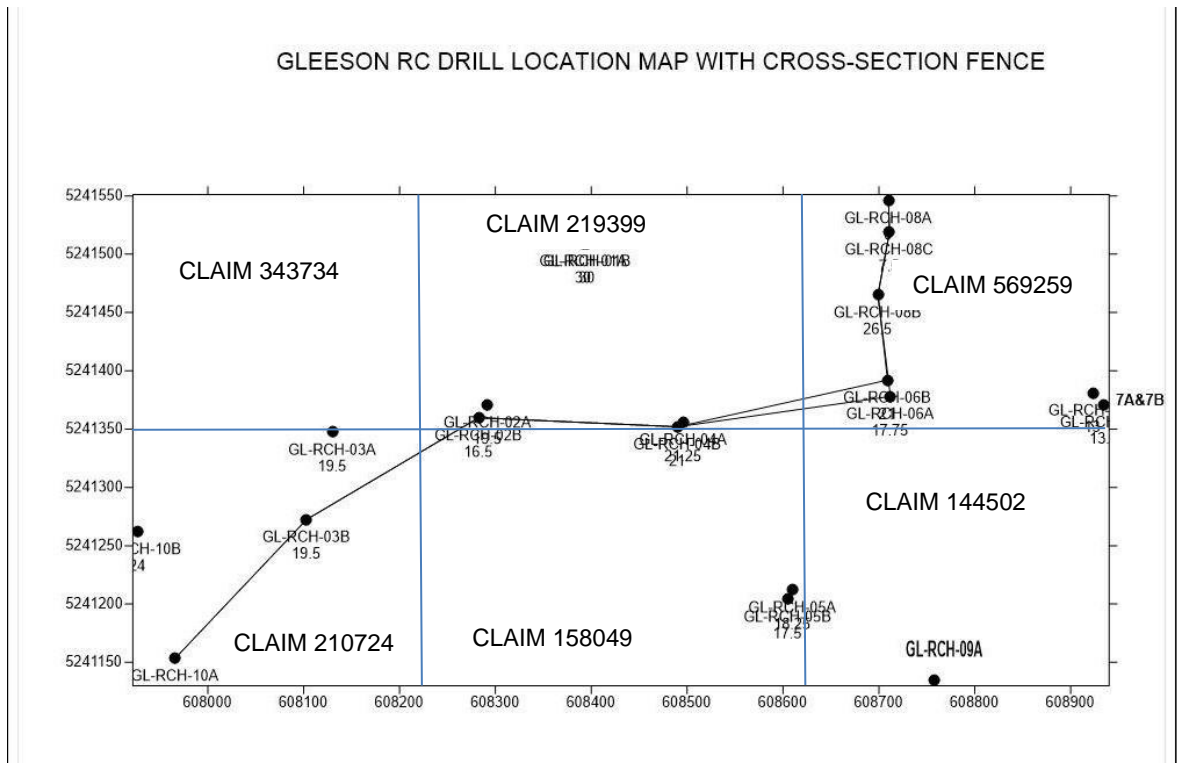
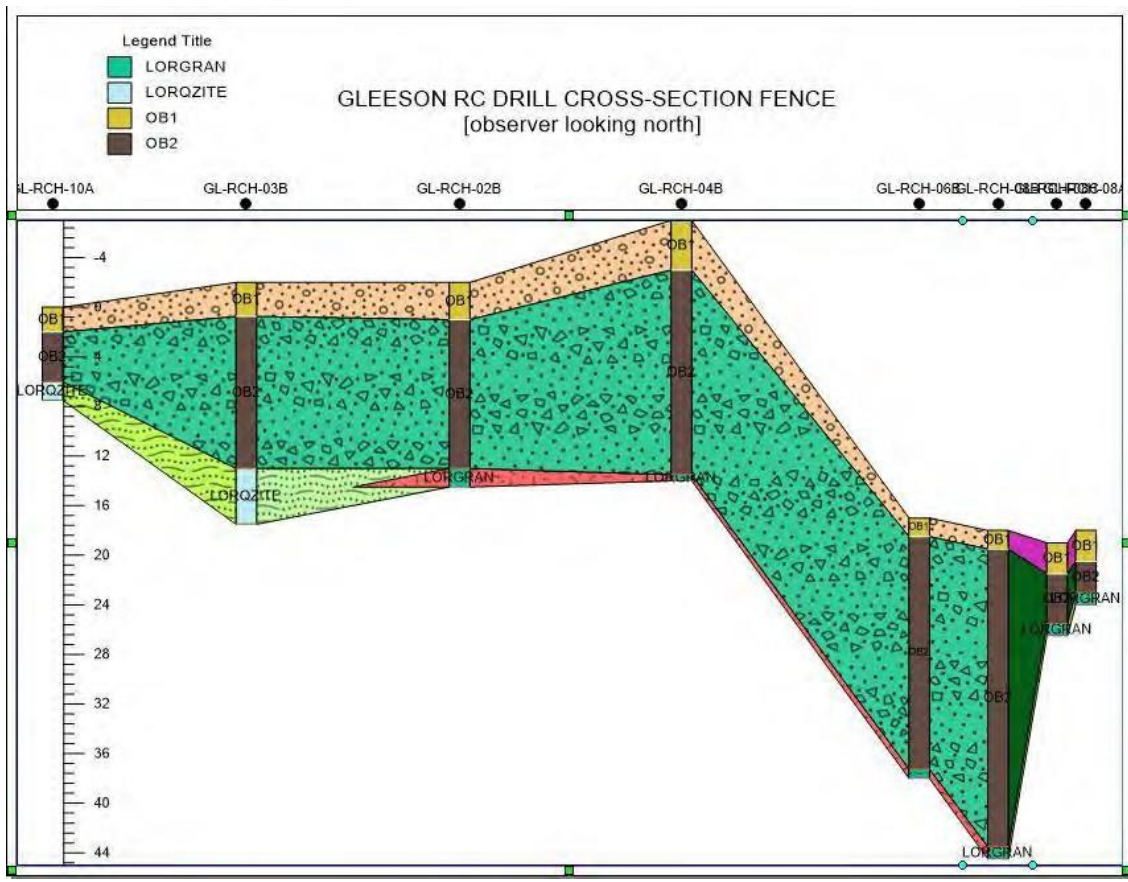
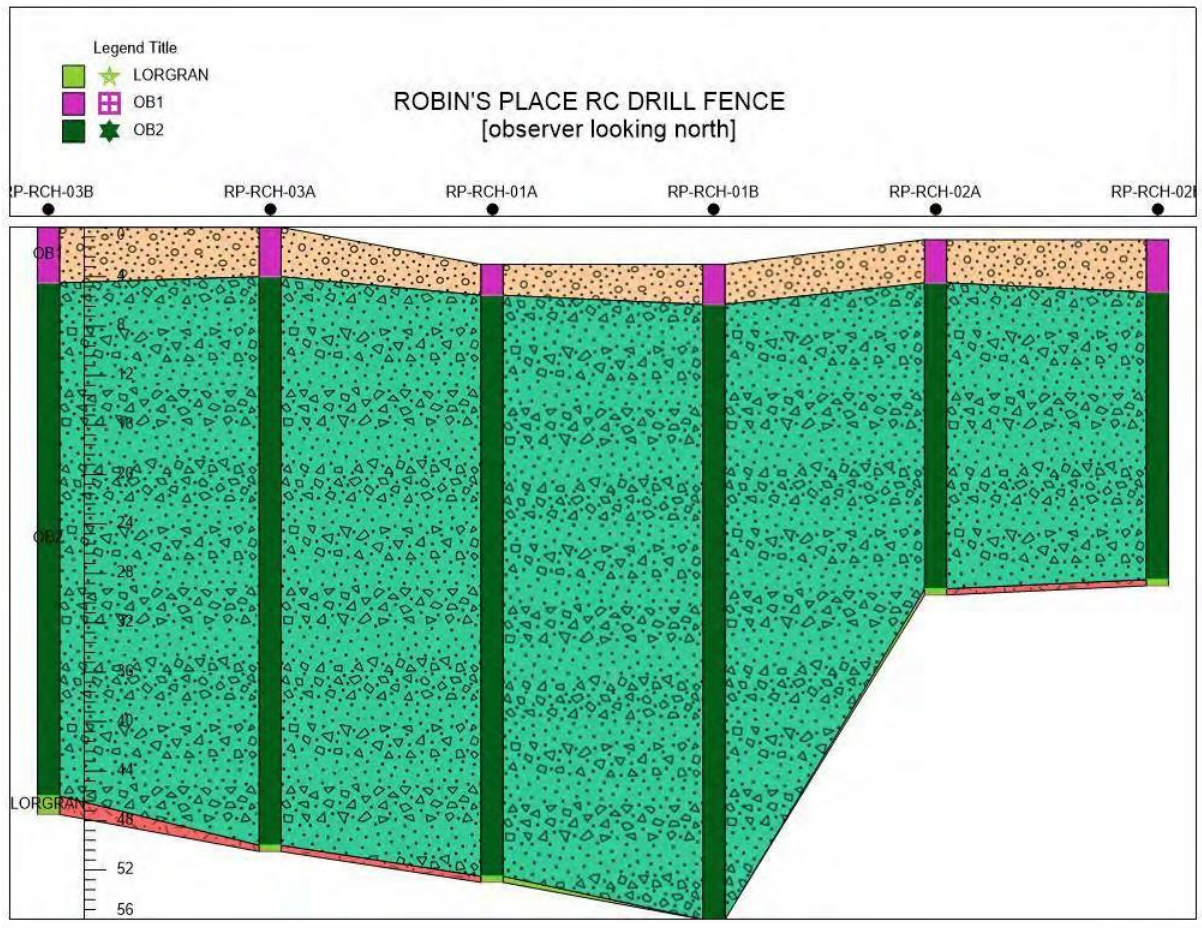


Figure 10.2: Gleeson RC Typical Drill Fence and Plan Map



ROBIN'S PLACE RC DRILL PLAN MAP WITH CROSS SECTION FENCE

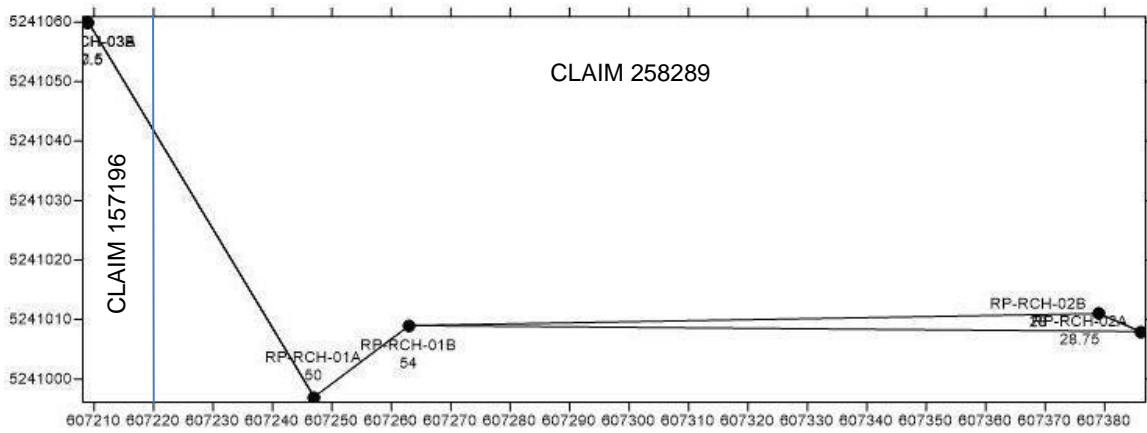
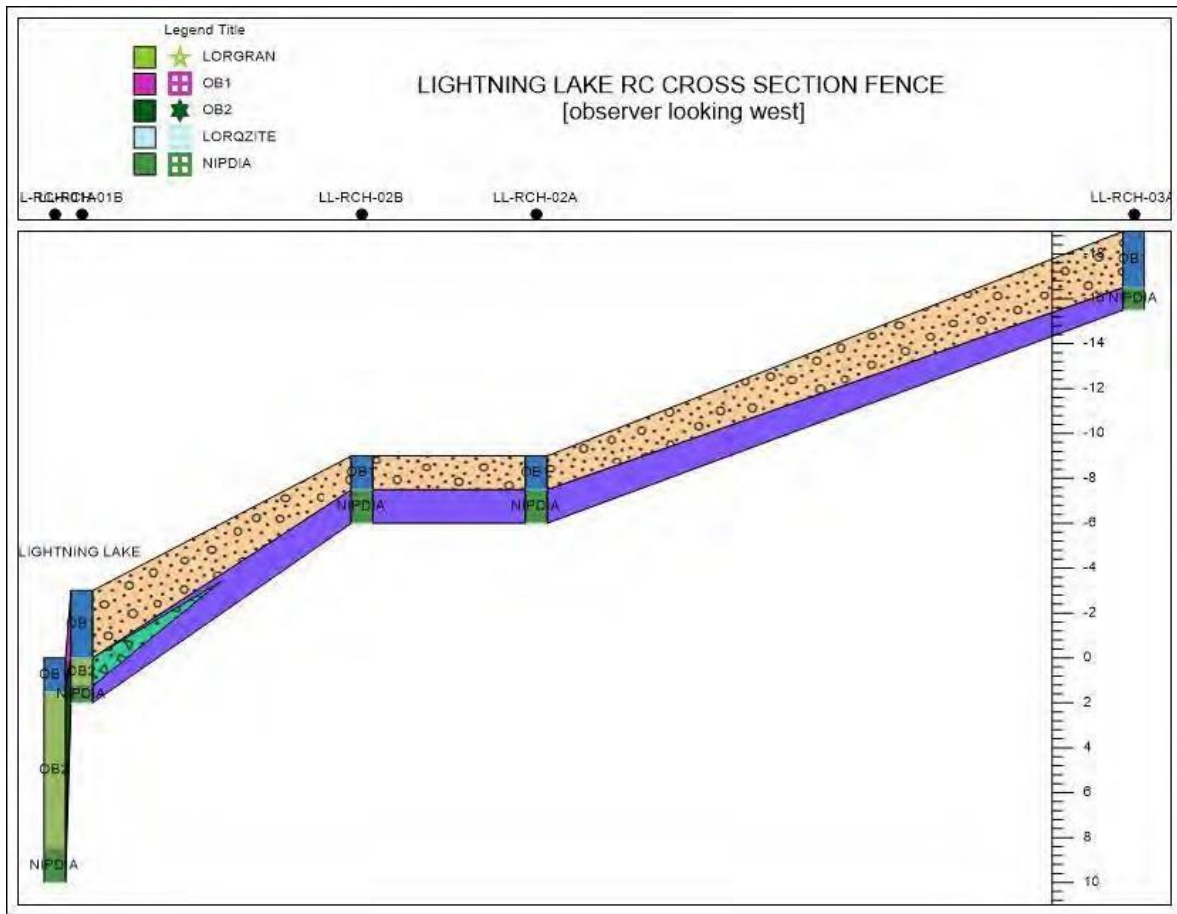


Figure 10.3: Robin's Place RC Typical Drill Fence and Plan Map



LIGHTNING LAKE RC DRILL PLAN MAP WITH CROSS SECTION FENCE

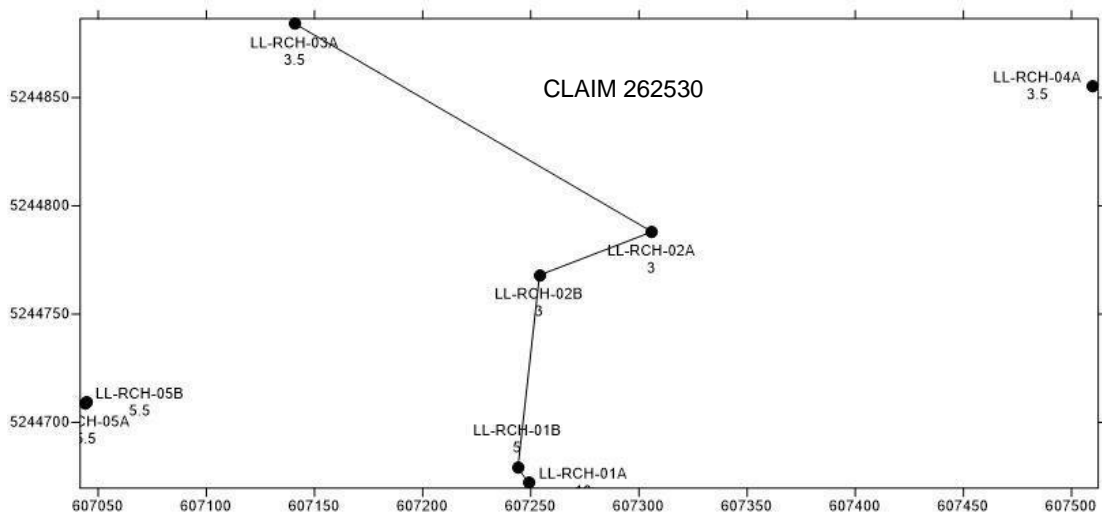


Figure 10.4: Lightning Lake Typical Drill Fence and Plan Map

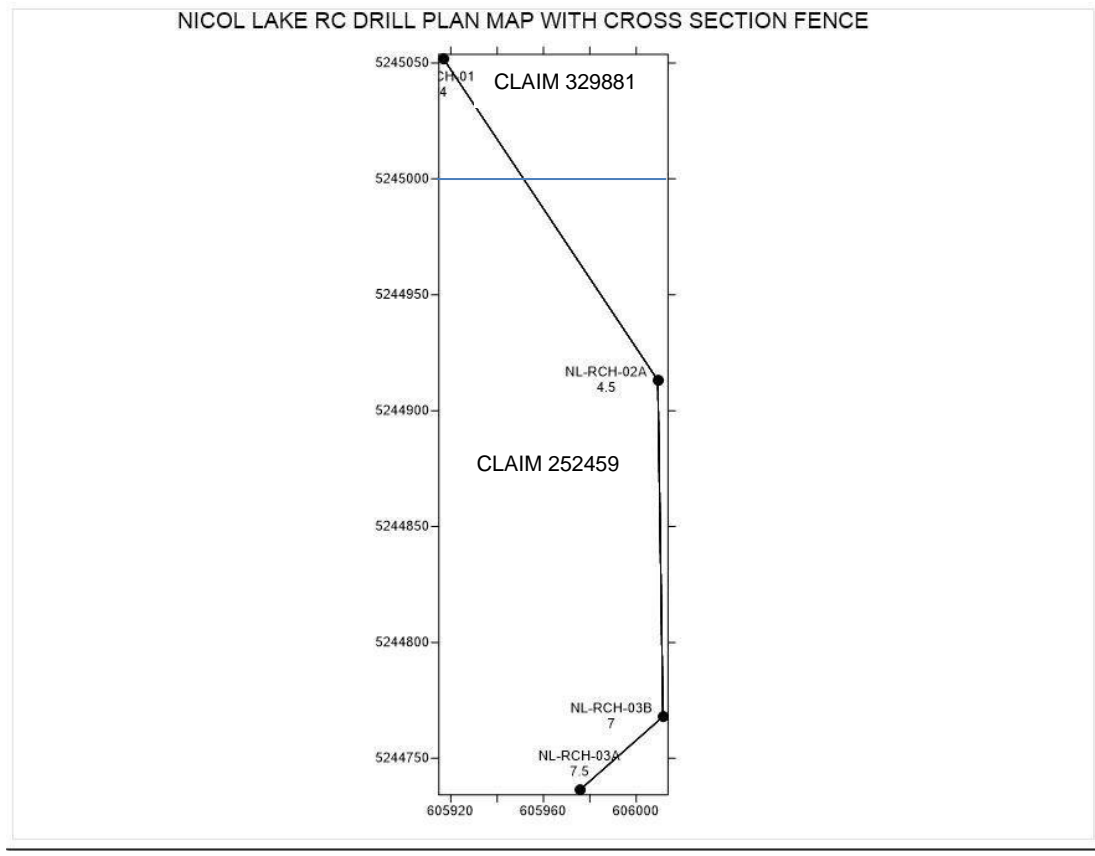
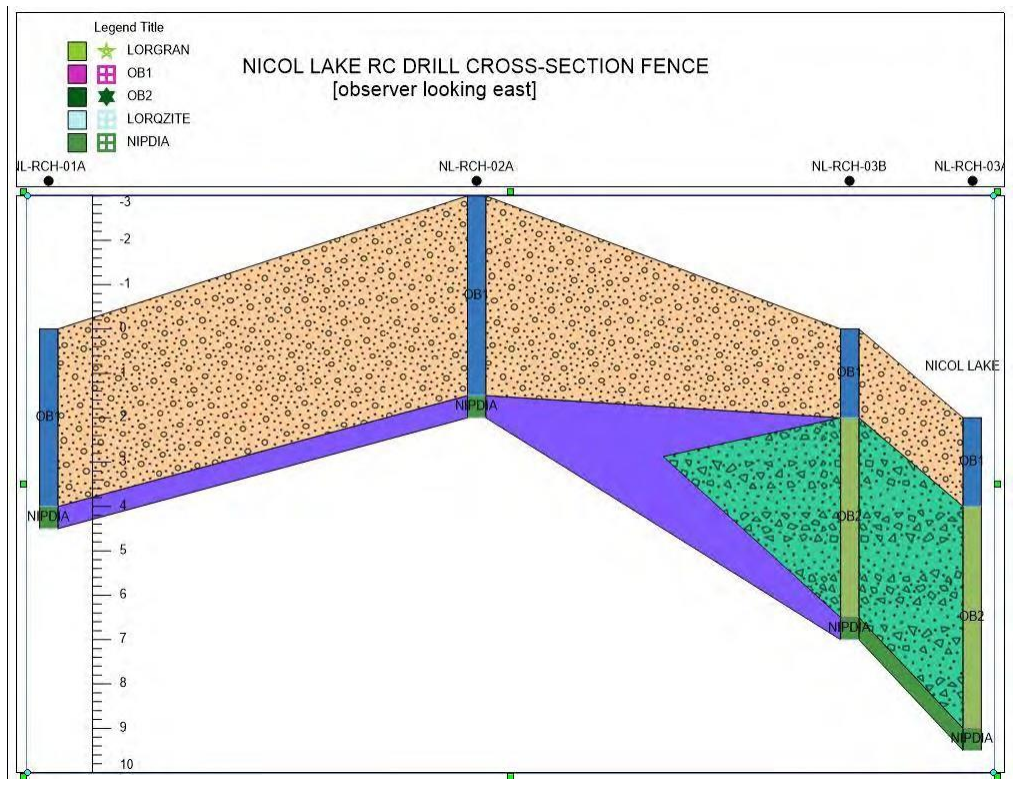


Figure 10.5: Nicol Lake RC Typical Drill Fence and Plan Map

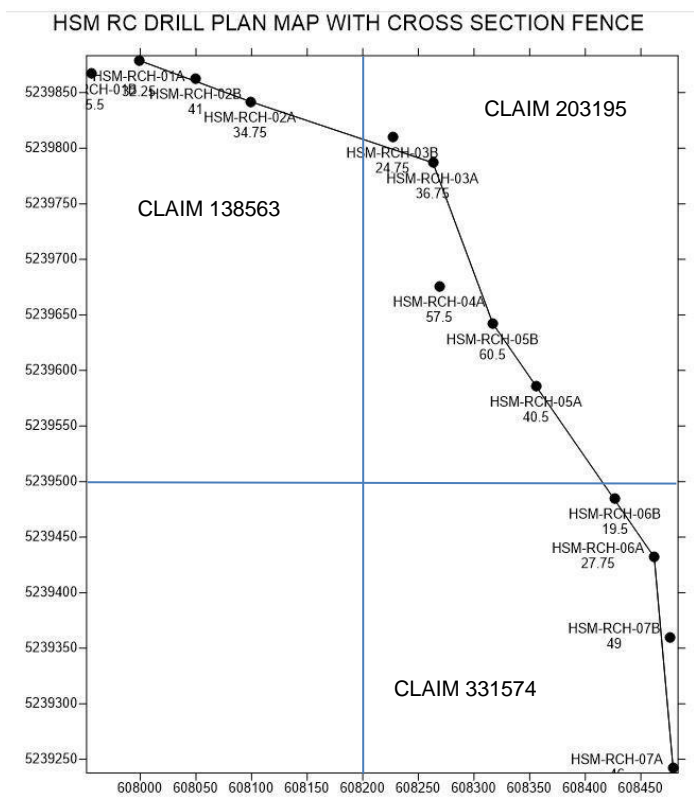
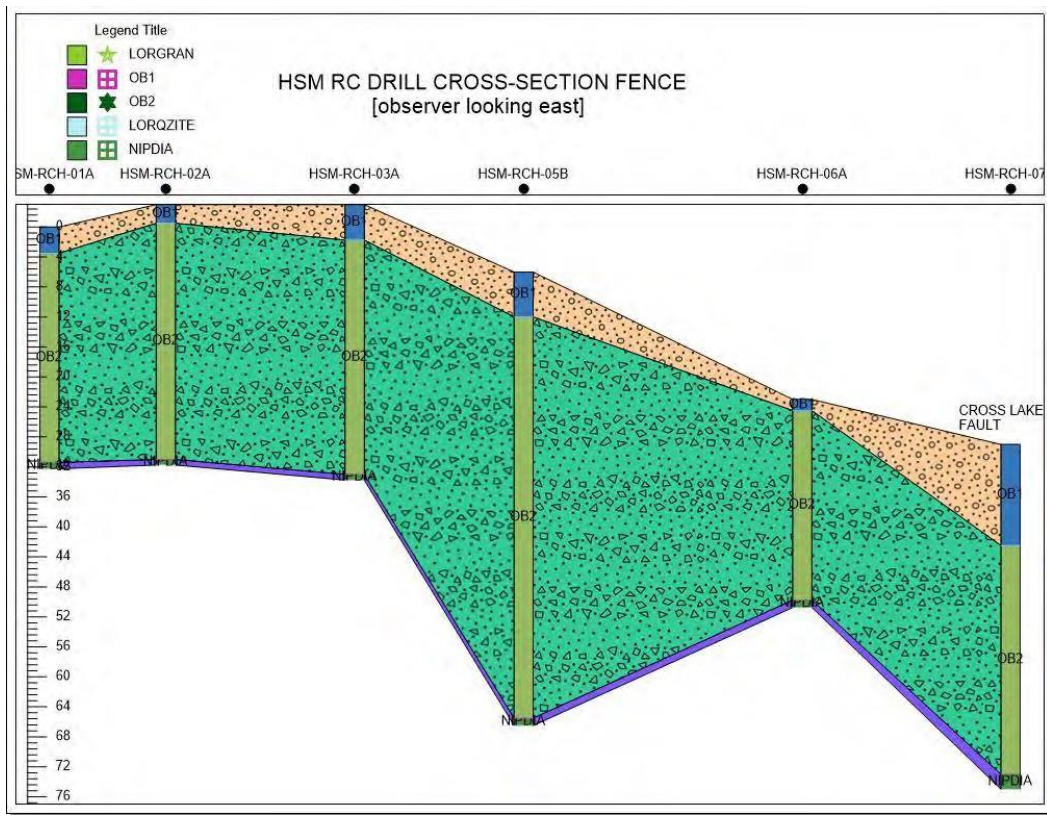
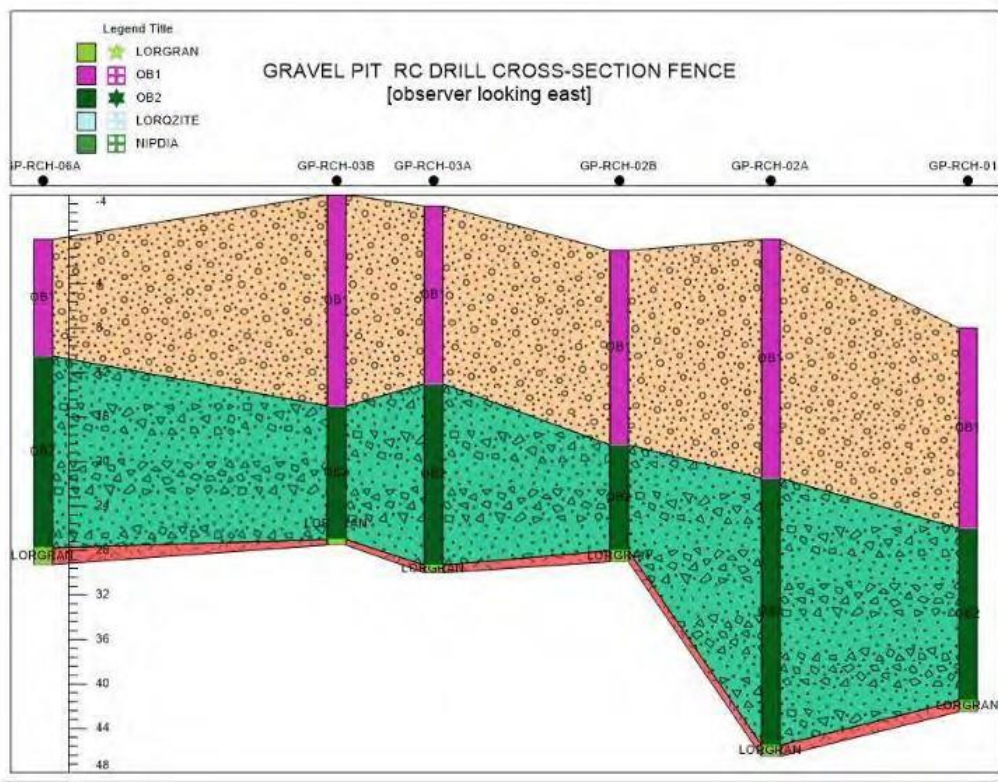


Figure 10.6: HSM RC Typical Drill Fence and Plan Map



GRAVEL PIT RC DRILL PLAN MAP WITH CROSS SECTION FENCE

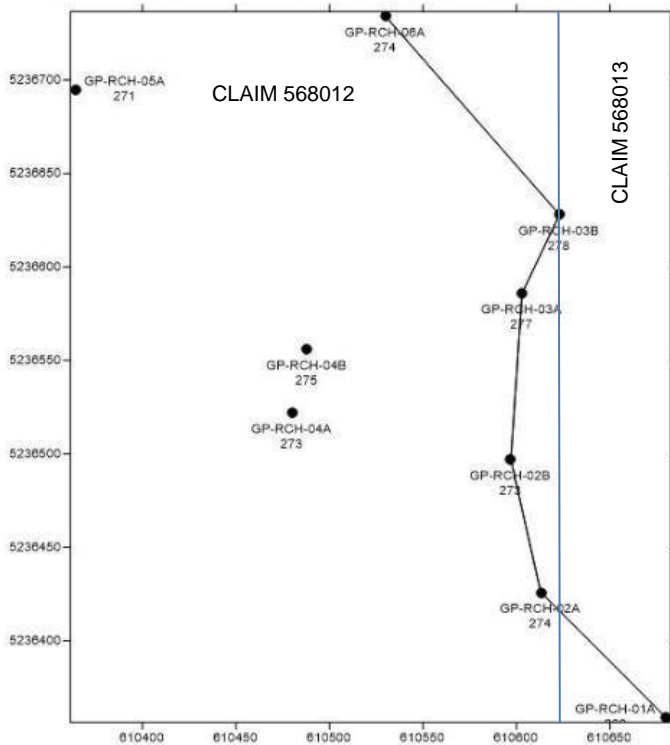
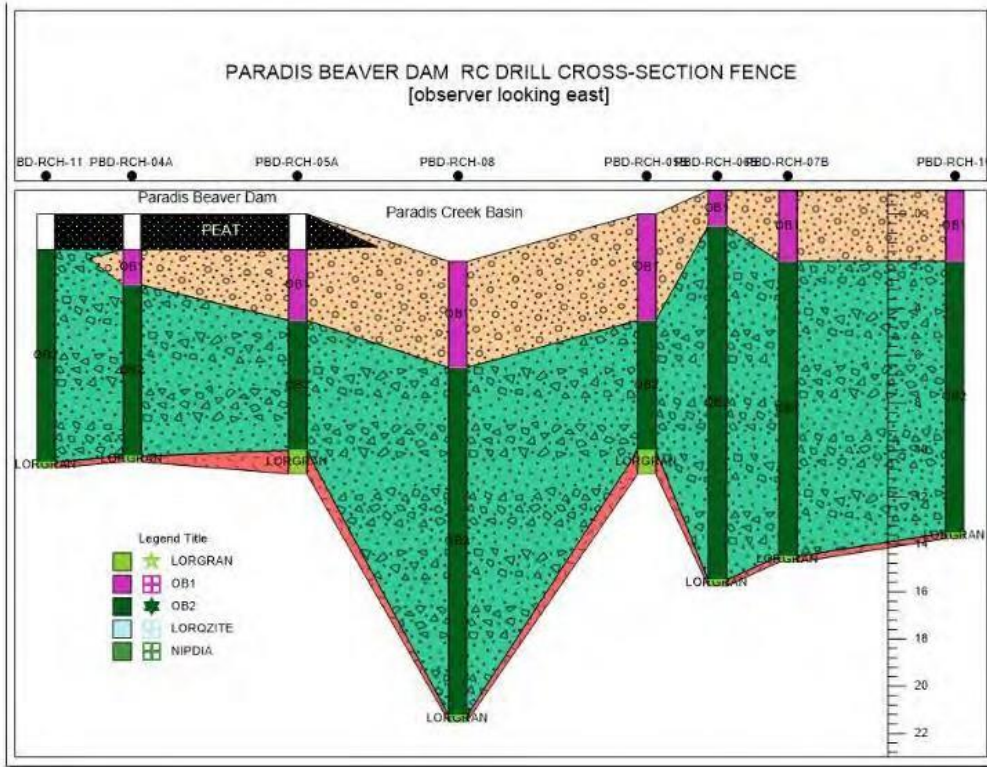


Figure 10.7: Gravel Pit Typical Drill Fence and Plan Map



PARADIS BEAVER DAM RC DRILL PLAN MAP WITH CROSS SECTION FENCE

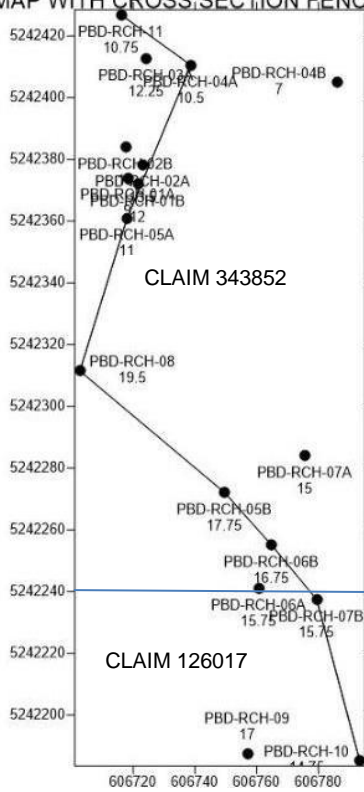


Figure 10.8: Paradis Beaver Dam Typical Drill Fence and Plan Map

11.0 Assessment Work Expenditure Allocation

Table 11.1 Assessment Work Expenditure Allocation – See Appendix D – Work Expenditure Invoices

Category	Date	Receipt/Invoice Number	Payee	Description	Amount
Drilling - Contractor					
	12-Jan-21	20210002	Steve's Equipment Services Inc.	Mobilization	\$ 5,989.00
	16-Jan-21	20210003	Steve's Equipment Services Inc.	Drilling	\$ 74,465.30
	01-Feb-21	20210004	Steve's Equipment Services Inc.	Drilling	\$102,144.85
	16-Feb-21	20210005	Steve's Equipment Services Inc.	Drilling	\$ 92,274.30
	29-Mar-21	20210012	Steve's Equipment Services Inc.	Drilling	\$ 37,148.75
				Sub-total:	\$312,022.20
Drilling - Consultant Geologist					
	13-Jan-21	RJK_INV-01_JANUARY 01-31_21	Peter Hubacheck	Project Geologist Jan. 1-31	\$ 6,925.21
	03-Feb-21	RJK_INV-02_FEBRUARY 01-28_2	Peter Hubacheck	Project Geologist Feb. 1-28	\$ 8,249.00
	03-Mar-21	RJK_INV-03A_MARCH 01-31_21	Peter Hubacheck	Project Geologist Mar. 1-31	\$ 2,825.00
	04-May-21	RJK_INV-04_April 01-30_21	Peter Hubacheck	Project Geologist Apr. 1-30	\$ 4,802.07
	31-Jan-21	Jan. 1- 31, 2021	Tammy Huard	Consulting Geologist	\$ 6,597.50
	28-Feb-21	Feb. 1-28, 2021	Tammy Huard	Consulting Geologist	\$ 6,650.00
	30-Apr-21	Apr. 18-30, 2021	Tammy Huard	Consulting Geologist	\$ 1,977.50
	15-May-21	May 1-15, 2021	Tammy Huard	Consulting Geologist	\$ 2,800.00
	04-Jan-23	22-301	Rochelle Collins	Report Writing	\$ 2,169.60
				Sub-total:	\$ 42,995.88
Assays					
	25-Feb-21	21-DMS-RJK-PP-RC	Microlithics Laboratories Inc.	DMS Processing	\$ 12,398.93
	25-Feb-21	21-DMS-RJK-GL-RC	Microlithics Laboratories Inc.	DMS Processing	\$ 10,162.94
	03-Mar-21	21-DMS-RJK-RP-RC	Microlithics Laboratories Inc.	DMS Processing	\$ 10,534.43
	30-Apr-21	602068	SGS Canada Inc.	Whole Rock package	\$ 275.49
	25-May-21	9215949	C.F. Mineral Research Limited	Diamond extraction	\$ 27,684.38
	16-Jun-21	9215943	C.F. Mineral Research Limited	Diamond extraction	\$ 5,559.86
	30-Jun-21		C.F. Mineral Research Limited	Diamond extraction	\$ 19,281.81
	14-Jul-21	9215953	C.F. Mineral Research Limited	Diamond extraction	\$ 18,450.76
	14-Jul-21	9215952	C.F. Mineral Research Limited	Diamond extraction	\$ 23,808.75
	29-Jul-21	9215955	C.F. Mineral Research Limited	Diamond extraction	\$ 4,979.63
	29-Jul-21	9215956	C.F. Mineral Research Limited	Diamond extraction	\$ 3,178.88
	13-Sep-21	9215966	C.F. Mineral Research Limited	Diamond extraction	\$ 31,892.33
	15-Dec-21	9215971	C.F. Mineral Research Limited	Diamond extraction	\$ 13,773.06
				Sub-total:	\$181,981.25
				Total:	\$536,999.33

Table 11.2 Assessment Work Expenditure Allocation by Claim – See Appendix D

Cell Number	Expenditure (\$CDN, incl. taxes)
126017	\$ 13,315.17
138563	\$ 36,651.03
144502	\$ 2,608.13
157190	\$ 26,904.87
175091	\$ 27,728.49
175901	\$ 72,341.17
203195	\$ 99,451.95
210724	\$ 14,001.52
219399	\$ 47,769.88
234633	\$ 3,980.82
238289	\$ 44,132.23
252459	\$ 5,216.25
262530	\$ 6,726.22
329881	\$ 1,098.16
343734	\$ 5,353.52
343852	\$ 22,443.61
568012	\$ 60,261.43
568013	\$ 18,119.61
569259	\$ 28,895.29
Total:	\$ 536,999.33

12.0 Conclusions

The indicator mineral geochemistry from all 7 conductance glacial bodies indicates glacial processes have eroded primary kimberlites or other diamond-bearing sources containing kimberlite magmatic material that has incorporated lherzolitic peridotite enriched in olivine, orthopyroxene along with chromium, aluminum spinels and garnets. This region at the base of the lithosphere and upper mantle is conducive for the growth of large diamonds in the diamond stability field at depths of 150 km to 200 km. The high temperature ilmenite peridotites contain megacrysts favouring larger diamond overgrowths forming at temperatures ranging from 1200oC to 1400oC. The high temperature ilmenite peridotites contain megacrysts favouring larger diamond overgrowths forming at temperatures ranging from 1200oC to 1400oC. The proto-kimberlite magma indicates an origin of deeper levels in the upper mantle as down to the Transition Zone, from 200 km to 400+ km. The Nipissing Diamond may have originated from this region of the mantle.

13.0 Recommendations

No further work is recommended to determine the geometry of the conductance glacial deposits discoveries containing kimberlite indicator minerals: Paradis Pond, Robin's Place, Gleeson, Lightning, Nicol, HSM and Gravel Pit.

Future recommendations involve testing the Chown Lake EM conductance feature aligned along the Cross Lake Fault structure located 500 m northwest of the Nicol conductance glacial deposit.

The 1,400-hectare Chown Block contains a large VTEM Conductance Anomaly (refer to Fig. 12.1), similar to the Nicol VTEM Conductance Anomaly which RJK drill tested by Reverse Circulation Drilling in January, 2021. The Nicol anomaly intersected 4.5-5 m of kimberlite, below 2 m of overburden, located at the north-eastern edge of this geophysical feature. The Chown anomaly is located slightly to the north-west of Nicol and has dimensions of approximately 2,000 meters in length by approximately 500-600 meters in width.

Additional RC drilling and/or shallow excavator trenching is recommended to determine if this anomaly represents a new conductance glacial body similar to Paradis and Nicol or possibly a primary kimberlite source.

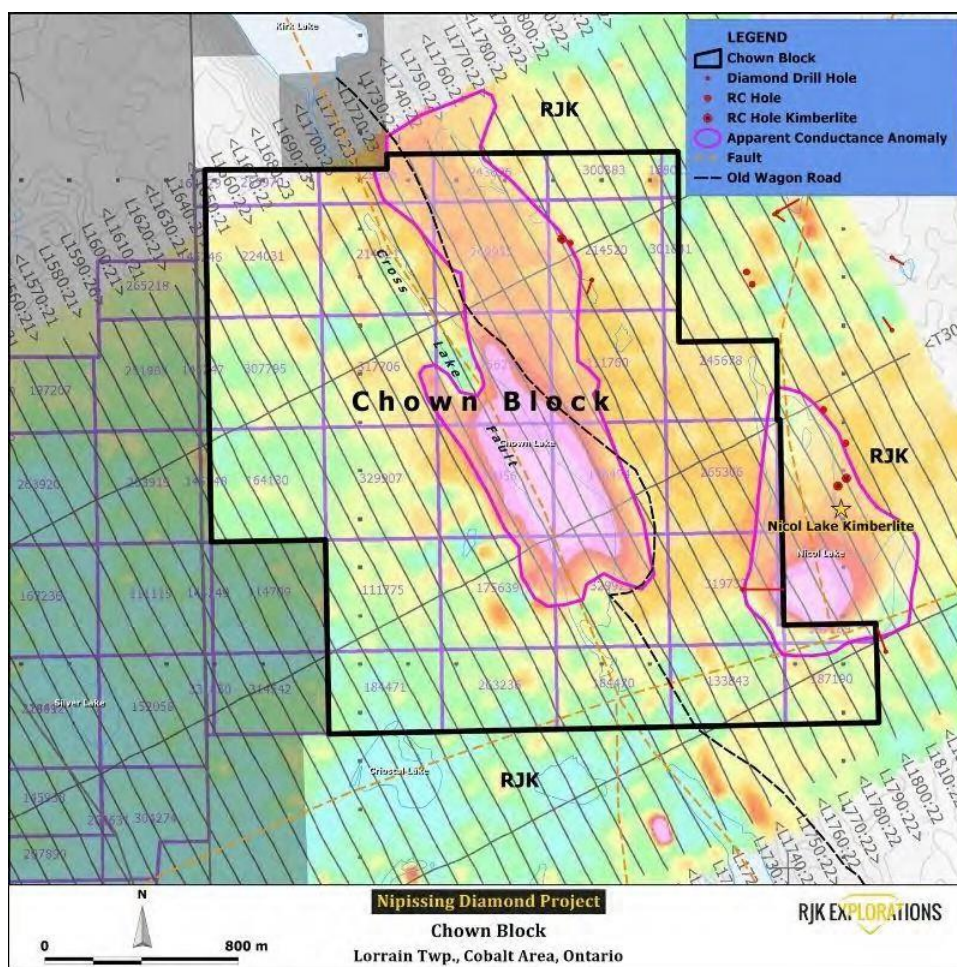


Figure 13.1: Chown Block showing Claim locations and VTEM Conductance Anomaly

14.0 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, 2022.



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.

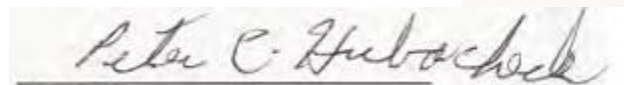
I have over 40 years of experience as a project geologist, exploration manager and Qualified Person for the purposes of NI 43-101, with experience in the exploration for gold, silver, base metals, uranium and diamonds in Canada and the USA.

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



15.0 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
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

157190	4285519	2017-MAR-10	RECORDED BY EDE, BRONSON JEFFERY (1011491)		R1780.00762
		2017-MAR-10	EDE, BRONSON JEFFERY (392677) RECORDS 100.0 % IN THE NAME OF CAMILLERI, JONATHAN PAUL (411562)		R1780.00763
		2018-APR-10	Converted to boundary claim(s) 157190, 160310, 189654, 238289, 289223, 312362.		MAM00.10949
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
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		571806

			Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS))		
		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
234633	4281431	2015-NOV-27	BARRETTE, MICHAEL JOSEPH (105222) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621)		R1580.01790
		2017-DEC-01	WORK PERFORMEDBENEF, MICRO, PROSP APPROVED: 2017-DEC-18	\$3,725	Q1780.02154
	4286185	017-APR-06	HARRINGTON, PATRICK MICHAEL JR. (142047) RECORDS 100.0 % IN THE NAME OF BISHOP, BRIAN ANTHONY (108621)		R1780.01265
	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
238289	4285519	2017-MAR-10	RECORDED BY EDE, BRONSON JEFFERY (1011491)		R1780.00762

		2017-MAR-10	EDE, BRONSON JEFFERY (392677) RECORDS 100.0 % IN THE NAME OF CAMILLERI, JONATHAN PAUL (411562)		R1780.00763
		2018-APR-10	Converted to boundary claim(s) 157190, 160310, 189654, 238289, 289223, 312362.		MAM00.10949
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 PERFORMED BENEF, 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
		2021-MAR-14	BRIAN BISHOP (108621) Transfers 100% to RJK EXPLORATIONS LTD. (187972)		1155035
343852	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	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	Record Migrated from Claims 3.2, Converted from legacy claim(s) 4273040, 4282187		262502
		2019-JAN-24	Exploration Permit No. PR-18- 000247 Effective from 2019/01/24 to 2022/01/24 for the		398829

			Following Activities: (Mechanized Drilling (Assembled Weight >150kg), Trails (TS))		
		2020-APR-16	\$1628 Work Performed (Airborne Magnetics) Approved: 2020-07-10	\$1,628	967309
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

PARADIS GRID HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID	P-RCH-02	CONTRACTOR: SES			HOLE DIA:	3.5"	
START DRILLING HOLE:	4:30Pm Jan.5, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	6:30Pm Jan.5, 2021	606449	5242397	332			
NO. OF PAILS SHIPPED:	9	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand
3	4.5	1.5								At 4.5m sharp contact. Color change from tan to grayish green green.
4.5	6	1.5								
6	7.5	1.5								
7.5	9	1.5								
9	10.5	1.5								
10.5	12	1.5								
12	13.5	1.5								
13.5	15	1.5								
15	16.5	1.5								
16.5	18	1.5								EOH 18m; Lorrain granite
18	19.5	1.5								Final Depth: 18.5m
FINAL DEPTH		18								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 KIMBERLITE FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 kimberlite clay balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-03	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 8:0am Jan.6, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 11:00am Jan.6, 2021	606451 5242396 332		
NO. OF PAILS SHIPPED: 8	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand
3	4.5	1.5								At 4.5m sharp contact. Color change from tan to grayish green green.
4.5	6	1.5								
6	7.5	1.5								
7.5	9	1.5								
9	10.5	1.5								
10.5	12	1.5								
12	13.5	1.5								
13.5	15	1.5								
15	16.5	1.5								EOH 16.5m; Lorrain granite
16.5	18	1.5								Final Depth: 17m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 KIMBERLITE FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 kimberlite clay balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-04	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 11:45am Jan.6, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 2:00pm Jan.6, 2021	606454 5242393 332		
NO. OF PAILS SHIPPED: 8	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGs @ 4.5m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								EOH 17m; Lorrain granite
16.5	18	1.5								Final Depth: 17.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 KIMBERLITE FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 kimberlite clay balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-05	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 3:00pm Jan.6, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 6:00pm Jan.6, 2021	606437 5242401 331		
NO. OF PAILS SHIPPED: 8	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE	
RC HOLE ID	P-RCH-06	CONTRACTOR: SES			HOLE DIA:	3.5"		
START DRILLING HOLE:	9:00am Jan.7, 2021	EASTING	NORTHING	ELEV	CASING:	NONE		
FINISH DRILLING HOLE:	12:00am Jan.7, 2021	606439	5242399	331				
NO. OF PAILS SHIPPED:	7	AZIMUTH:	360/180	DIP:	-90			

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-07	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 12:40pm Jan.7, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 3:30pm Jan.7, 2021	606441 5242395 331		
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-08	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 4:40pm Jan.7, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 6:30pm Jan.7, 2021	606444 5242393 331		
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-09	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:15am Jan.8, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 11:15am Jan.8, 2021	606448	5242389	331	
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 15.5m; Lorrain granite
16.5	18	1.5								Final Depth: 16.0m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-10	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 12:00am Jan.8, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 3:00pm Jan.8, 2021	606450 5242388 331		
NO. OF PAILS SHIPPED: 6	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 4.5m sharp contact. Color change from tan to grayish green green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16.0m; Lorrain granite
FINAL DEPTH		15								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-11	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 3:30am Jan.8, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 5:50pm Jan.8, 2021	606453 5242385 331		
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGs @ 4.5m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGs ends @ 16.0m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #: 175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-12	CONTRACTOR: SES	HOLE DIA: 3.5"	
START DRILLING HOLE: 8:30am Jan.9, 2021	EASTING NORTHING ELEV	CASING: NONE	
FINISH DRILLING HOLE: 11:00am Jan.9, 2021	606434 5242407 331		
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGS @ 3.0m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGS ends @ 16.0m; Lorrain granite
16.5	18	1.5								Final Depth: 16.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID	P-RCH-14	CONTRACTOR: SES			HOLE DIA:	3.5"	
START DRILLING HOLE:	3:00pm Jan.9, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	5:30pm Jan.9, 2021	606444	5242389	331			
NO. OF PAILS SHIPPED:	7	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGs @ 3.0m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGs ends @ 17.5m; Lorrain granite
16.5	18	1.5								Final Depth: 18.0m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID P-RCH-15	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:30am Jan.10, 2021	EASTING NORTHING ELEV	CASING:	NONE	
FINISH DRILLING HOLE: 11:30am Jan.10, 2021	606448 5242383 331			
NO. OF PAILS SHIPPED: 7	AZIMUTH: 360/180	DIP: -90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGs @ 3.0m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGs ends @ 17.0m; Lorrain granite
16.5	18	1.5								Final Depth: 17.5m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	175901	STORAGE LOCATION: KIRKLAND LAKE		
RC HOLE ID	P-RCH-16	CONTRACTOR: SES			HOLE DIA:	3.5"			
START DRILLING HOLE:	11:45am Jan.10, 2021	EASTING	NORTHING	ELEV	CASING:	NONE			
FINISH DRILLING HOLE:	11:45pm Jan.10, 2021	606447	5242385	331					
NO. OF PAILS SHIPPED:	7	AZIMUTH:	360/180	DIP:	-90				

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand. BRW
3	4.5	1.5								GGs @ 3.0m sharp contact. Color change from tan to grayish green. GRW
4.5	6	1.5								mixed sand, clay balls
6	7.5	1.5								mixed sand, clay balls
7.5	9	1.5								mixed sand, clay balls
9	10.5	1.5								mixed sand, clay balls
10.5	12	1.5								mixed sand, clay balls
12	13.5	1.5								mixed sand, clay balls
13.5	15	1.5								mixed sand, clay balls
15	16.5	1.5								GGs ends @ 17.5m; Lorrain granite
16.5	18	1.5								Final Depth: 18.0m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

GLEESON HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-01A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:15am Jan 11, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 9:50am Jan 11, 2021	608392	5241509	341	
NO. OF PAILS SHIPPED: 2	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs Sandy matrix; BRW
3	4.5	1.5					1			GGs Sandy matrix contact at 3m
4.5	6	1.5					1			mixed sand, clay balls, GRW, KO
6	7.5	1.5								mixed sand, clay balls, GRW,
7.5	9	1.5								mixed sand, clay balls, GRW,
9	10.5	1.5								mixed sand, clay balls, GRW,
10.5	12	1.5					1	1		mixed sand, clay balls, GRW, KO
12	13.5	1.5								mixed sand, clay balls, GRW,
13.5	15	1.5			1					mixed sand, clay balls, GRW,
15	16.5	1.5					1			mixed sand, clay balls, GRW, KO
16.5	18	1.5								mixed sand, clay balls, GRW,
18	19.5	1.5								mixed sand, clay balls, GRW,
19.5	21	1.5								mixed sand, clay balls, GRW,
21	22.5	1.5					1			mixed sand, clay balls, GRW, KO
22.5	24	1.5	1							mixed sand, clay balls, GRW,
24	25.5	1.5	1							mixed sand, clay balls, GRW,
25.5	27	1.5								mixed sand, clay balls, GRW,
27	28.5	1.5					1			GGs Sandy matrix contact at 28.5m
28.5	30	1.5								LQ at bedrock contact, EOH at 30m
FINAL DEPTH		28.5								

NOTES:

OVERBURDEN: look for orangy brown return water (BRW); much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-01B	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 9:50am Jan 11, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 2:15pm Jan 11, 2021	608393	5241509	341	
NO. OF PAILS SHIPPED: 10	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs Sandy matrix; BRW
3	4.5	1.5					1			GGs Sandy matrix contact at 3m
4.5	6	1.5					1			mixed sand, clay balls, GRW, KO
6	7.5	1.5								mixed sand, clay balls, GRW,
7.5	9	1.5								mixed sand, clay balls, GRW,
9	10.5	1.5								mixed sand, clay balls, GRW,
10.5	12	1.5					1	1		mixed sand, clay balls, GRW, KO
12	13.5	1.5								mixed sand, clay balls, GRW,
13.5	15	1.5			1					mixed sand, clay balls, GRW,
15	16.5	1.5					1			mixed sand, clay balls, GRW, KO
16.5	18	1.5								mixed sand, clay balls, GRW,
18	19.5	1.5								mixed sand, clay balls, GRW,
19.5	21	1.5								mixed sand, clay balls, GRW,
21	22.5	1.5					1			mixed sand, clay balls, GRW, KO
22.5	24	1.5	1							mixed sand, clay balls, GRW,
24	25.5	1.5	1							mixed sand, clay balls, GRW,
25.5	27	1.5								mixed sand, clay balls, GRW,
27	28.5	1.5					1			GGs Sandy matrix contact at 28.5m
28.5	30	1.5								LQ at bedrock contact, EOH at 30m
FINAL DEPTH		28.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-02A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 2:15am Jan 11, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 5:100pm Jan 11, 2021	608292	5241371	334	
NO. OF PAILS SHIPPED: 5	AZIMUTH: 360/180	DIP: -90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGS Sandy matrix; BRW
3	4.5	1.5								GGS Sandy matrix; BRW
4.5	6	1.5								GGS Sandy matrix contact at 4.5m
6	7.5	1.5	1					1		mixed sand, clay balls, GRW, KO
7.5	9	1.5								mixed sand, clay balls, GRW,
9	10.5	1.5								mixed sand, clay balls, GRW,
10.5	12	1.5	1							mixed sand, clay balls, GRW,
12	13.5	1.5	1							mixed sand, clay balls, GRW,
13.5	15	1.5						1		mixed sand, clay balls, GRW, KO
15	16.5	1.5		1						mixed sand, clay balls, GRW,
16.5	18	1.5								mixed sand, clay balls, GRW,
18	19.5	1.5								GGS Sandy matrix contact @ 19.5
19.5	21	1.5								LQ at bedrock contact, EOH at 20m
FINAL DEPTH		19.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T.Huard				COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL - RCH -02B				CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:15 am Jan 12, 2021	N	E	ELEV		CASING:	NONE	
FINISH DRILLING HOLE: 10:30 am Jan.12, 2021	608282	5241360	334				
NO. OF PAILS SHIPPED: 4	AZIMUTH:	360/180	DIP:	-90			

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								At 3m GGS sharp contact. Color change to tan green.
4.5	6	1.5								Oil smell before carbonate clast.
6	7.5	1.5								
7.5	9	1.5								Oily film. More clay rich at the start.
9	10.5	1.5						2		Small granite clast at start and small kimballs at the end.
10.5	12	1.5								Kimballs most of the run.
12	13.5	1.5								Granite clasts, very light pink.
13.5	15	1.5								Kimballs. GGS ended at 15m.
15	16.5	1.5								EOH 16.5m
16.5	18	1.5								
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]

generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core

clay (kim) balls seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations	CLAIM #:	343734	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-03A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 5:01 pm, Jan 12nd	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 9:25 am, Jan 13rd	608130	5241347	335	
NO. OF PAILS SHIPPED: 6	AZIMUTH:	360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								At 2.5 see gradual change to GGS.
3	4.5	1.5								Brown oil at 3.75.
4.5	6	1.5							I	Brown oil.
6	7.5	1.5								At 7m smell oil.
7.5	9	1.5	I	I						At 8.25m light pink granite mixed for short interval. At 8.5m light grey chips with minor green.
9	10.5	1.5					I			Tan carbonate with black at start, mostly tan carbonate. At 10m becomes a little mixed. At 10.25m brown oil present. At 10.5m tan carbonate ends.
10.5	12	1.5	I							Some light pink granite. Tiny kimballs present.
12	13.5	1.5				I				At 12.75m LG mixed in.
13.5	15	1.5	I							
15	16.5	1.5	I							Light pink granite.
16.5	18	1.5	I							Tiny kimballs.
18	19.5	1.5								Tiny kimballs. GGS ended at 19m.
19.5	21	1.5								EOH 19.75m @ LG CONTACT
FINAL DEPTH		18								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG										
GEOL LOGGER: T. Huard				COMPANY: RJK Explorations			CLAIM #:		210724	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-03B				CONTRACTOR: SES			HOLE DIA:		3.5"	
START DRILLING HOLE: 11:25am Jan 13, 2021		EASTING		NORTHING	ELEV		CASING:		NONE	
FINISH DRILLING HOLE: 3:00pm Jan 13, 2021		608103		5241272	334					
NO. OF PAILS SHIPPED: 6		AZIMUTH:		360/180	DIP:		-90			
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs started at 2.75m. Clay with small kimballs.
3	4.5	1.5								
4.5	6	1.5								Brown oil.
6	7.5	1.5								Brown oil.
7.5	9	1.5								Smell of oil at start.
9	10.5	1.5								Small kimballs.
10.5	12	1.5								Small kimballs.
12	13.5	1.5								Small kimballs.
13.5	15	1.5								Small kimballs. GGS ended, LQ at end of run.
15	16.5	1.5								LQ
16.5	18	1.5								At 17.5m LQ mixed with granite.
18	19.5	1.5								Mainly LQ, some granite.
										EOH 19.5
FINAL DEPTH		18								
NOTES:										
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen										
look for mixture of lithotypes										
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]										
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core										
clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock										
occasionally reddish brown oxide return water above the Lorrain Granite										
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m										

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T.Huard COMPANY: RJK Explorations CLAIM #: 219399 STORAGE LOCATION: KIRKLAND LAKE
 RC HOLE ID: GL-RCH-04A CONTRACTOR: SES HOLE DIA: 3.5"
 START DRILLING HOLE: 4:00 pm Jan 13, 2021 EASTING NORTHING ELEV CASING: NONE
 FINISH DRILLING HOLE: 6:20 pm Jan 13, 2021 608496 5241356 339
 NO. OF PAILS SHIPPED: 6 AZIMUTH: 360/180 DIP: -90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed pebbly sand, BRW
3	4.5	1.5								GGs green glacial seds at 3.75m.
4.5	6	1.5								Kimballs.
6	7.5	1.5								Tan carbonate mix. Small kimballs and brown oil near end.
7.5	9	1.5								Brown oil. Very small kimballs,
9	10.5	1.5								Brown oil. Very small kimballs,
10.5	12	1.5								Brown oil.
12	13.5	1.5								Kimballs, some medium. Tan carb mix. Brown oil.
13.5	15	1.5								Small & medium kimballs. Brown oil. Tan clay mix.
15	16.5	1.5								Small & medium kimballs, few medium sized.
16.5	18	1.5								Various sized kimballs. Some granite mixed.
18	19.5	1.5								Various sized kimballs.
19.5	21	1.5								Various sized kimballs, some large. Some quartz.
21	22.5	1.5								GG SEDS ended 20.75m EOH 21.25m in granite
FINAL DEPTH		21								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T.Huard	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-04B	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:10am Jan 14, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 10:10am Jan 14, 2021	608490	5241352	339	
NO. OF PAILS SHIPPED: 6	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand, orangy mud BRW
3	4.5	1.5								GGs At 4m see sandy matrix. Carbonate mix.
4.5	6	1.5								Grey clay matrix than Tan carb mix.
6	7.5	1.5								Minor tan carb with little kimball matrix.
7.5	9	1.5								Tan carb mix. Mainly small kimball. Mostly tan carbonate mixed with kimball material.
9	10.5	1.5								Brown oil. Small kimballs material mixed with tan carbonate. Short interval of just tan carbonate.
10.5	12	1.5								Kimball matrix. Same mix.
12	13.5	1.5								Same mix with some LQ mixed in.
13.5	15	1.5								Same mix.
15	16.5	1.5								Same mix with kimballs up to cm size.
16.5	18	1.5								Kimballs >cm.
18	19.5	1.5						2		up to cm sized kimballs.
19.5	21	1.5								SSG seds ended 20.5m in LG
21	22.5	1.5								EOH 21m
FINAL DEPTH		21								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-05A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 11:20am Jan 14, 2021	EASTING	NORTHING	ELEV	CASING:
FINISH DRILLING HOLE: 2:10am Jan 14, 2021	608610	5241212	337	NONE
NO. OF PAILS SHIPPED: 5	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								SSG seds started at 4.25m
4.5	6	1.5								Tan carbonate mix with sandy matrix.
6	7.5	1.5								Tan carbonate mix with sandy matrix. LG mixed in at the end.
7.5	9	1.5								Tan carbonate mix with sandy matrix.
9	10.5	1.5								Tan carbonate mix with sandy matrix. Granite boulder.
10.5	12	1.5								
12	13.5	1.5								
13.5	15	1.5								Mnr kimballs.
15	16.5	1.5								
16.5	18	1.5								Small kimballs. SSG ended 17.75m, start to see LG.
18	19.5	1.5								EOH 18.25m
FINAL DEPTH		18								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations	CLAIM #:	219399	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-05B	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 2:45 pm Jan 14, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 4:45pm Jan 14, 2021	608605	5241204	337	
NO. OF PAILS SHIPPED: 5	AZIMUTH: 360/180	DIP: -90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								At 3m SSG material is dominant, Tan carbonate mix no sandy matrix/Granite/Lots of boulders. Lots of material getting forced out.
4.5	6	1.5								Carbonate mix with sandy matrix.
6	7.5	1.5								Light pink granite boulder. Carbonate sandy mix.
7.5	9	1.5								Tan carbonate mix with sandy matrix.
9	10.5	1.5								Tan carbonate mix with sandy matrix.
10.5	12	1.5								Granite boulder/Carbonate mix with little sand/Granite boulder.
12	13.5	1.5								Sand.
13.5	15	1.5								Sand.
15	16.5	1.5								Kimballs small to cm sized.
16.5	18	1.5								SSG ended 17m in granite
18	19.5	1.5								EOH 17.5m
FINAL DEPTH		18								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations			CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-06A	CONTRACTOR: SES			HOLE DIA:	3.5"	
START DRILLING HOLE: 5:30 - 7:00pm Jan 14, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE: 8:00 - 8:35am Jan 15, 2021	608712	5241378	314			
NO. OF PAILS SHIPPED: 5.5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGS started at 1.25m. Sandy carbonate mix.
3	4.5	1.5								Carbonate mix with sandy matrix/boulder.
4.5	6	1.5								Carbonate mix with sandy matrix/kimballs/LG
6	7.5	1.5								Kimball matrix and kimballs/Brown oil.
7.5	9	1.5								Kimball matrix and kimballs/Brown oil.
9	10.5	1.5								Kimball matrix and kimballs/Brown oil.
10.5	12	1.5								Kimball matrix and kimballs/Brown oil.
12	13.5	1.5								Kimball matrix and kimballs/Brown oil.
13.5	15	1.5								Kimball matrix and kimballs/Brown oil/Mnr LQ
15	16.5	1.5								Kimball matrix and kimballs/Brown oil.
16.5	18	1.5								Kimball matrix and kimballs/Brown oil. GGS ended 17.25m in LG EOH 17.75m
FINAL DEPTH		16.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations	CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-06B	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 9:00am Jan 15, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 11:20am Jan 15, 2021	608709	5241392	315	
NO. OF PAILS SHIPPED: 6.5	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs contact at 1.5m; Carbonate mix with sandy matrix.
3	4.5	1.5								Carbonate mix with sandy matrix.
4.5	6	1.5								Brown oil. Kimball matrix.
6	7.5	1.5								Kimball matrix.
7.5	9	1.5								Brown oil. Kimball matrix.
9	10.5	1.5								Brown oil. Kimball matrix.
10.5	12	1.5								Minor LQ. Brown oil. Kimball matrix.
12	13.5	1.5								Kimball matrix.
13.5	15	1.5								Kimball matrix.
15	16.5	1.5								Medium size kimballs.
16.5	18	1.5								Medium size kimballs.
18	19.5	1.5								Medium size kimballs.
19.5	21	1.5								Medium size kimballs. GGS ended 20.25m in LG EOH 21m
FINAL DEPTH		19.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations			CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-07A	CONTRACTOR: SES			HOLE DIA:	3.5"	
START DRILLING HOLE: 12:30pm Jan 15, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE: 3:15pm Jan 15, 2021	608935	5241371	292			
NO. OF PAILS SHIPPED: 3.5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5							I	GGs started at 2.25m. 1st screen had sandy matrix then kimball matrix.
3	4.5	1.5								Sandy matrix/kimball matrix/Kimballs/Brown oil
4.5	6	1.5								Kimballs. Minor LQ.
6	7.5	1.5								boulder/kimball matrix and brown oil.
7.5	9	1.5								Kimball matrix. Brown oil.
9	10.5	1.5								Kimball matrix. Brown oil. Kimballs.
10.5	12	1.5								Brown oil. GGS ended 12m.
12	13.5	1.5								LG at start then LQ. EOH 13.5m
FINAL DEPTH		12								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-07B	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 3:45pm Jan 15, 2021	EASTING	NORTHING	ELEV	CASING:
FINISH DRILLING HOLE: 5:04pm Jan 15, 2021	608923	5241381	293	NONE
NO. OF PAILS SHIPPED: 3.5	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs contact at 2.75m see Kimball matrix.
3	4.5	1.5								Kimball matrix.
4.5	6	1.5								Brown oil. Kimball matrix.
6	7.5	1.5								Brown oil. Kimball matrix.
7.5	9	1.5								Brown oil. Kimball matrix. Brown carbonate & strong oil smell.
9	10.5	1.5								Kimball matrix.
10.5	12	1.5								Kimball matrix ended at 12m.
12	13.5	1.5								LQ with very minor granite. GGS contact at 12.5m become 50/50 then LQ. EOH 13m
FINAL DEPTH		12								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard	COMPANY: RJK Explorations	CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-08A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 8:00am Jan 16, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 8:50am Jan 16, 2021	608710	5241546	314	
NO. OF PAILS SHIPPED: 1.5	AZIMUTH:	360/180	DIP: -90	

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								At 2.25 start to see sandy matrix and smaller rx. At 2.75 GGS contact see color change.
3	4.5	1.5								Sandy matrix/kimball matrix.
4.5	6	1.5								GGs ended at 5m in LG
6	7.5	1.5								EOH 6m
FINAL DEPTH		6								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorraine quartzite, Lorraine granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorraine Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T. Huard
 RC HOLE ID: GL-RCH-08B
 START DRILLING HOLE: 9:35am Jan 16, 2021
 FINISH DRILLING HOLE: 1:55am Jan 16, 2021
 NO. OF PAILS SHIPPED: 8

COMPANY: RJK Explorations
 CONTRACTOR: SES
 EASTING 608699 NORTHING 5241465 ELEV 314
 AZIMUTH: 360/180 DIP: -90

CLAIM #: 569259 STORAGE LOCATION: KIRKLAND LAKE
 HOLE DIA: 3.5"
 CASING: NONE

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs Sandy matrix at 1.5m, end of run changes to carbonate mix with sandy matrix.
3	4.5	1.5								Carbonate mix with sandy matrix.
4.5	6	1.5					I			Carbonate mix with sandy matrix. Kimball matrix. Brown oil.
6	7.5	1.5								Brown oil. Kimball matrix.
7.5	9	1.5								Brown oil. Kimball matrix.
9	10.5	1.5								Brown oil. Kimball matrix.
10.5	12	1.5			I					Brown oil. Kimball matrix.
12	13.5	1.5	I				I			Brown oil. Kimball matrix. Very minor cm kimballs.
13.5	15	1.5					I			Brown oil. Kimball matrix.
15	16.5	1.5	I							Sandy carbonate. Kimball matrix.
16.5	18	1.5				I	II			Sandy carbonate. Kimball matrix.
18	19.5	1.5								Mostly Kimball matrix.
19.5	21	1.5			I					Carbonate mix with sandy matrix. LQ at 20m.
21	22.5	1.5					I			At 21.25m start to see kimballs/carb.
22.5	24	1.5	I							Kimball matrix.
24	25.5	1.5				I				LG. Cm & > cm kimballs.GGS ended at 25.5m in LG
25.5	27	1.5				I				EOH 26.5m
FINAL DEPTH		25.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: T.Huard	COMPANY: RJK Explorations	CLAIM #:	569259	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-08C	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 3:00am Jan 16, 2021	EASTING	NORTHING	ELEV	CASING: NONE
FINISH DRILLING HOLE: 4:05am Jan 16, 2021	608711	5241519	313	
NO. OF PAILS SHIPPED: 2	AZIMUTH: 360/180	DIP: -90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs At 2.25 start to see sandy matrix with small rx.
3	4.5	1.5								Tan carbonate mix with sandy matrix. LQ. Tan Carbonate. Kimballs up to 1cm.
4.5	6	1.5								Brown oil. Kimballs up to 2 cm. Tan carbonate.
6	7.5	1.5								Sandy matrix. SSG ends at 6.2 -6.5m; gradual change to LG. EOH 7.5m.
FINAL DEPTH		6								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck	COMPANY: RJK Explorations	CLAIM #:	144502	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: GL-RCH-09A	CONTRACTOR: SES	HOLE DIA:	3.5"	
START DRILLING HOLE: 5:00pm Jan 16, 2021	EASTING	NORTHING	ELEV	CASING:
FINISH DRILLING HOLE: 6:30pm Jan 16, 2021	608758	5241135	309	NONE
NO. OF PAILS SHIPPED: 1.5	AZIMUTH:	360/180	DIP:	-90

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								Sandy matrix for short interval then back to larger pebbles & quartz. GGS at 4.25 LG. At 4.5 changing to mix of LG and sandy material.
4.5	6	1.5								4.75 small kimballs.
6	7.5	1.5								Kimball matrix. GGSSandy matrix at 9m. LQ at contact
7.5	9	1.5								LQ
9	10.5	1.5								LQ EOH 9.5m
FINAL DEPTH		9								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG								CLAIM #:	210724	STORAGE LOCATION: KIRKLAND LAKE
GEOL LOGGER: P. Hubacheck			COMPANY: RJK Explorations					HOLE DIA:	3.5"	
RC HOLE ID: GL-RCH-10A			CONTRACTOR: SES					CASING:	NONE	
START DRILLING HOLE: 4:00pm Jan 21, 2021			EASTING	NORTHING	ELEV					
FINISH DRILLING HOLE: 5:30pm Jan 21, 2021			607966	5241154	332					
NO. OF PAILS SHIPPED: 2			AZIMUTH:	360/180	DIP:					

FROM	TO	INTERVAL		MAFIC	LORRAIN	LORRAIN	TAN CARB	PERIDOTITE	MAGNETIC	
		HD rig deck to	GRANITE	VOLC	QUARTZITE	GRANITE			BIF	PETROGRAPHIC COMMENTS
		ground level								
0	1.5									
1.5	3	1.5					1			GGS Sandy matrix contact at 2m.
3	4.5	1.5	1						1	GGS Sandy matrix dominant
4.5	6	1.5			1					4.75 small kimballs.
6	7.5	1.5								GGS Sandy matrix contact @ 7m
7.5	9	1.5								LQ at bedrock contact
9	10.5	1.5								EOH @ 7.5m
FINAL DEPTH		9								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	210724	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:	GL-RCH-10B	CONTRACTOR: SES			HOLE DIA:	3.5"	
START DRILLING HOLE:	Jan. 17, 2021 8:20:00 AM	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	1:00pm	607927	5241262	330	KIM TRUE TH	20	
NO. OF PAILS SHIPPED:	7	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								Kept Rep Sample
4.5	6	1.5								GGs contact At 5m; Carbonate. Smell Oil.
6	7.5	1.5								Water was light. Became dark again a couple times. At 7m turned creamy grey, carbonate with sandy matrix.
7.5	9	1.5								Grey sandy matrix.
9	10.5	1.5								Carbonate mix with grey sandy matrix. 0.5m carbonate boulder.
10.5	12	1.5								Carbonate mix with grey sandy matrix.
12	13.5	1.5								Carbonate mix with kimballs. Mix of tan carbonate & kimballs. Granite. LQ. Carbonate.
13.5	15	1.5								Smell oil. Tan carbonate. Grey sand. LQ. Grey carbonate with kimballs. Grey and tan carbonate. Carbonate mix with kimballs. Brown oil.
15	16.5	1.5								Carbonate mix with small kimballs. Brown oil. Kimballs and Brown oil. Carbonate mix with kimball matrix. Smell oil & brown oil.
16.5	18	1.5								Grey carbonate. Grey sandy matrix. Carbonate mix with kimballs. Brown oil. Carbonate mix with sandy matrix. Brown oil. Carbonate with kimball matrix.
18	19.5	1.5								Carbonate mix with kimball matrix. Brown oil.
19.5	21	1.5								Carbonate mix with kimball matrix. Brown oil. Tan carbonate. Carbonate mix with kimballs. Brown oil.
21	22.5	1.5								Carbonate mix with kimball matrix. Light pink
22.5	24	1.5								Carbonate mix with kimballs. Light pink granite boulder. Brown oil.
24	25.5	1.5								Light pink granite boulder. Carbonate mix with kimballs. Darker brown carbonate with sandy matrix. Carbonate mix with kimballs; GGS contact at 25m; start to see LG with a litte LQ at start. EOH 25.5m
FINAL DEPTH		24								

NOTES:

OVERBURDEN: look for orange brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

ROBIN'S PLACE HOLES

REVERSE CIRCULATION DRILL LOG										
GEOL LOGGER: P. Hubacheck			COMPANY: RJK Explorations			CLAIM #:		238289		STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID: RP-RCH-01A			CONTRACTOR: SES			HOLE DIA:		3.5"		
START DRILLING HOLE: Jan. 22, 2021 2:30pm			EASTING	NORTHING	ELEV	CASING:		NONE		
FINISH DRILLING HOLE: Jan. 23, 2021 12:20pm			607247	5240997	319					
NO. OF PAILS SHIPPED: 16			AZIMUTH: 360/180	LORRAIN QUARTZITE	LORRAIN GRANITE	DIP: -90				
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								At 2.5m see sandy matrix and little color change.
3	4.5	1.5								GGs AT 3.75m color change again. Carbonate mix then grey carbonate not much sand.
4.5	6	1.5								A lot of grey sand then carbonate mix with sandy matrix.
6	7.5	1.5								Carbonate mix with sandy matrix. Carbonate mix with very minor kimballs and grey sandy matrix.
7.5	9	1.5								Carbonate mix with sandy matrix. Brown oil.
9	10.5	1.5								Carbonate mix with sandy matrix. Smell oil. Carbonate & ilmenite. Smell oil. Grey carbonate. Tan carbonate mix with sandy matrix.
10.5	12	1.5							I	Carbonate mix. Light pink granite boulder. Carbonate mix. Granite & mafic boulder. Tan carbonate. Light pink granite boulder. Grey carbonate & minor tan carbonate. Carbonate mix with sandy matrix.
12	13.5	1.5	II	I			II			Carbonate mix with grey sandy matrix. At 14m see LG boulder. Grey carbonate. Carbonate mix grey sandy matrix.
13.5	15	1.5				I				Carbonate mix minor sandy matrix. MV boulder. LQ.
15	16.5	1.5			I					Carbonate mix minor sandy matrix. At 17.75m minor kimballs.
16.5	18	1.5								Carbonate mix minor sand. Brown oil. Very minor kimballs.
18	19.5	1.5								Carbonate mix minor sand.
19.5	21	1.5								Carbonate mix minor sand.
21	22.5	1.5					I			Carbonate mix sandy matrix. Tan carbonate. Tan carbonate mix minor sandy matrix. Very minor kimballs.
22.5	24	1.5								Carbonate mix minor sandy matrix & kimballs. Brown red carbonate. Carbonate mix & kimballs. Brown oil.
24	25.5	1.5								Carbonate mix with kimballs up to cm.
25.5	27	1.5								Carbonate mix with kimball matrix. Brown oil.
27	28.5	1.5	I							Carbonate mix with kimball matrix. Tan carbonate mix with minor sandy matrix. Carbonate mix with kimball matrix. Light pink granite boulder.
28.5	30	1.5								Carbonate mix with kimballs. Brown oil.
30	31.5	1.5								Carbonate mix with kimballs. Brown oil.
31.5	33	1.5			I					Carbonate mix with small kimballs. LQ. Carbonate mix with kimball matrix.
33	34.5	1.5								Carbonate mix with small kimballs. Brown oil.
34.5	36	1.5					I			Carbonate mix with kimball matrix. Kimballs. Tan carbonate mix with small kimballs. Brown oil.
36	37.5	1.5			I	I				Carbonate mix with small kimballs. MV boulder. LQ boulder.
37.5	39	1.5						I		Carbonate mix. BIF and small kimballs. More carbonate in mix not much matrix. Brown oil.
39	40.5	1.5		I			II			Tan carbonate. Tan carbonate mix minor kimballs. Carb mix with kimballs. Brown oil. Mafic boulder. Kimballs. Tan carb. Kimballs.
40.5	42	1.5	I				III			Kimball matrix & brown oil. Tan carb. Carb mix with kimball matrix. Tan carb. Kimballs & brown oil. Tan carb & brown oil. Kimballs up to cm. Tan carb & kimballs. Kimballs. Light pink boulder.
42	43.5	1.5	II							Kimballs >cm. Light pink granite boulder. Kimballs. Granite boulder. Kimballs, Brown oil and some carb mix.
43.5	45	1.5					I			Kimballs. Brown carb, smell oil. Few cmm kimballs. Grey carb & kimball mix. Minor tan carb with large kimballs. Grey carb. Tan carb. Kimballs up to 1 inch.
45	46.5	1.5				I				Kimballs & brown oil. Grey carbonate. Kimballs up tp 1 inch. LG boulder. Very large kimballs.
46.5	48	1.5								Kimballs up to 1 inch & brown oil.
48	49.5	1.5								Large kimballs & brown oil.
49.5	50	0.5								Diabase EOH 50m
FINAL DEPTH		48.5								
NOTES:										
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen										
look for mixture of lithotypes										
GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water]										
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core										
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock										
occasionally reddish brown oxide return water above the Lorrain Granite										
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M										

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER: P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:	238289	STORAGE LOCATION: KIRKLAND LAKE	
RC HOLE ID:	RP-RCH-01B	CONTRACTOR: SES			HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 23, 2021 8:15am	EASTING	NORTHING	ELEV	CASING:	NONE		
FINISH DRILLING HOLE:	Jan. 23, 2021 4:50pm	607263	5241009	319				
NO. OF PAILS SHIPPED:	17	AZIMUTH:	360/180	DIP:	-90			

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								
3	4.5	1.5								GGs at 3.25m sharp contact. Color change from tan to grayish green GRW KO
4.5	6	1.5								At 5.5m water turned grey. Carb mix with small kimballs.
6	7.5	1.5					I			Carb mix with grey sandy matrix. Mafic boulder. Tan carb, smell of oil. Tan carb mix.
7.5	9	1.5								Alternating tan carb mix & grey carb.
9	10.5	1.5					II			Tan carb mix, mostly carb. Smell oil. Grey carb. Tan carb. Tan carb mix.
10.5	12	1.5			I					Grey carb mix. Tan carb mix. Several boulders throughout. LQ. Carb mix.
12	13.5	1.5								Mafic boulder. Carb mix. LG. Tan carb mix.
13.5	15	1.5								Brown oil. Carb mix. Light pink granite. Tan carb mix.
15	16.5	1.5								Carb mix very minor kimballs.
16.5	18	1.5								Tan carb mix with grey sandy matrix. Carb mix with kimballs up to cm scale. LQ.
18	19.5	1.5								Carb mix with kimballs. Kimballs. Brown oil. Tan carb with kimball matrix.
19.5	21	1.5								Kimballs.
21	22.5	1.5								Tan carb with kimball matrix. Brown oil. Grey carb.
22.5	24	1.5					I			Carb mix with small kimballs. Tan carb. Carb mix with small kimballs.
24	25.5	1.5					I			Tan carb. Carb mix with small kimballs. Carb mix with small kimballs and sandy matrix. Carb mix with small kimballs. Several boulders throughout.
25.5	27	1.5	I				I			Pink granite boulder. Carb mix with small kimballs. Tan carb. Grey carb. Carb mix with small kimballs.
27	28.5	1.5					I		I	Carb mix with small kimballs. Ilmenite. Tan Carb. Carb mix with small kimballs.
28.5	30	1.5			I		I			LQ. Carb mix with kimballs & brown oil. Tan carb. Tan carb mix with kimballs. Carb mix with kimballs.
30	31.5	1.5								Carb mix with kimballs. Some sections just kimballs. Brown oil.
31.5	33	1.5								Carb mix with kimballs.
33	34.5	1.5	I				I			Carb mix with kimballs. Tan carbonate. Carb mix minor kimballs. Light pink granite boulder.
34.5	36	1.5								Tan carb mix with small kimballs. Carb mix with small kimballs.
36	37.5	1.5					I			Tan carb. Carb mix with kimballs.
37.5	39	1.5								Kimballs minor carb mix. Tan carb. Carb mix with kimballs.
39	40.5	1.5								Kimballs with minor carb. Brown oil. Grey carb, Smell oil. Kimballs.
40.5	42	1.5								Intervals of kimballs mixed with tan carbonate and kimballs up to 1 cm. Brown oil. Light pink boulder. Kimballs and grey carb.
42	43.5	1.5					I			Tan carb, smell oil. Kimballs up to an inch. Minor tan carb. Kimballs with minor tan carb.
43.5	45	1.5								Cm scaled kimballs with minor tan carb. Brown oil and kimballs.
45	46.5	1.5								Kimballs and carb, brown oil. Kimballs. Carb and kimballs mixed.
46.5	48	1.5					I			Kimballs. Carb mixed with small kimballs. Dark grey boulder. Minor kimballs. Tan carb. Kimballs. Brown oil.
48	49.5	1.5								Kimballs with minor carb.
49.5	51	1.5			I					Large kimballs. Tan carb with small kimballs. Minor carb mixed with kimballs. LQ.
51	52.5	1.5			I					LQ. Carb mix with small kimballs.
52.5	54	1.5				I				Carb mix with kimballs. Kimballs. Carb & kimballs. LG mixed with kimballs. At ~53.4 Diabase. EOH 54m
FINAL DEPTH		39								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	238289	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	RP-RCH-02A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 25, 2021 8:30am	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Jan. 25, 2021 1:30pm	607386	5241008	321			
NO. OF PAILS SHIPPED:	9	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud, BRW
3	4.5	1.5								GGS at 4.25m sharp contact. Color change from tan to grayish green GRW KO
4.5	6	1.5					I			At 4.5m water color changed back to brownish color, small rx and sandy and carb. At 5m water changed back to grey. Tan carb mix with grey sandy matrix. Tan carb. Black granitic boulder.
6	7.5	1.5								Tan carb mix with grey sandy matrix. Carb mix with minor grey sandy matrix then increase in sandy matrix. Boulders throughout.
7.5	9	1.5								Carb mix with grey sandy matrix. Tan carb mix with sandy matrix. Carb mix with grey sandy matrix. Carb mix.
9	10.5	1.5								Carb mix with grey ssandy matrix. Tan carb mix with sandy matrix. Tan carb. Tan carb mix with sandy matrix. Granite boulder. Carb mix with grey sandy matrix. Tan carb mix with sandy matrix.
10.5	12	1.5					I			Carb mix with sandy mix, brown oil. Tan grey carb. Tan grey carb mix with sandy matrix.
12	13.5	1.5								Carb mix with grey sandy matrix.
13.5	15	1.5					II			Carb mix with grey sandy matrix. Tan carb mix with brown carb, smell of oil. Tan carb mix with sandy matrix. Tan carb. Carb mix with grey sandy matrix.
15	16.5	1.5								Carb mix with grey sandy matrix. Tan carb mix with grey sandy matrix. Carb mix with sandy matrix.
16.5	18	1.5								Tan carb with sandy matrix. Carb mix with grey sandy matrix. Tan carb mix with brown oil. Tan carb mix with sandy matrix.
18	19.5	1.5								Carb mix with grey sandy matrix. Tan carb mix small kimballs. Carb mix with kimballs.
19.5	21	1.5								Kimballs. Carb mix with kimballs, brown oil. Mafic boulder. Kimballs, brown oil.
21	22.5	1.5					I			Carb mix with kimballs. Tan carb. Small kimballs. Tan carb kimball mix, brown oil. Kimballs, brown oil.
22.5	24	1.5					I			Carb mix with kimballs, brown oil. Kimballs with minor carb, brown oil. Tan carb.
24	25.5	1.5					II			Tan carb. Tan carb and kimballs. Kimballs up to cm, brown oil. Tan carb.
25.5	27	1.5								Kimballs with minor carb, brown oil.
27	28.5	1.5					I			Kimballs with minor carb, brown oil. Tan carb. Kimballs with minor carb. Diabase at 28.25m
28.5	30.25	1.75								EOH 28.75m
FINAL DEPTH		28.75								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	238289	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	RP-RCH-02B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 25, 2021 2:00pm	EASTING	607379	NORTHING	5241001	ELEV	321
FINISH DRILLING HOLE:	Jan. 25, 2021 6:00pm	AZIMUTH:	360/180	DIP:	-90		
NO. OF PAILS SHIPPED:	9						

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud, BRW
3	4.5	1.5								GGs at 4.25m sharp contact. Color change from tan to grayish green GRW KO
4.5	6	1.5								At 4.5m still cream colored water until material comes out and there is a change to grey color. Tan grey carb mix with grey sandy matrix. Near end water turned cream color again.
6	7.5	1.5								Cream colored but almost immediately the water turned grey. Carb mix with grey sandy matrix.
7.5	9	1.5								Carb mix with grey sandy matrix, carb is tan grey. Mostly grey sandy matrix, brown oil. Tan carb mix with grey sandy matrix.
9	10.5	1.5								Tan carb mix with grey sandy matrix. Granite boulder. Tan carb mix with grey sandy matrix.
10.5	12	1.5					I			Tan carb mix with grey sandy matrix. Tan carb. Tan carb mix with grey sandy matrix. Several boulders throughout.
12	13.5	1.5	I		I					Carb mix with grey sandy matrix, smell oil. LQ. Carb mix with grey sandy matrix. Granite boulder.
13.5	15	1.5					I			Tan carb. Tan carb mix with grey sandy matrix. Several boulders throughout.
15	16.5	1.5			I	I	I			Carb mix with grey sandy matrix. LG & LQ. Carb mix with grey sandy matrix. Black granite boulder. Tan carb mix with sandy matrix and kimballs. Tan carb.
16.5	18	1.5					II			Tan carb, smell oil. Tan carb mix with kimballs. Tan carb. Kimballs minor carb.
18	19.5	1.5			I					Grey boulder. LQ. Tan carb with kimballs.
19.5	21	1.5					I			Kimballs, brown oil. Tan carb. Kimballs with minor carb, brown oil.
21	22.5	1.5					II			Kimball mix. Tan carb. Kimballs, brown oil. Tan carb. Tan carb & kimballs.
22.5	24	1.5								Kimballs with minor carb, brown oil.
24	25.5	1.5								Kimball with very minor carb, brown oil. Tan carb & kimballs, brown oil.
25.5	27	1.5	I							Kimballs with minor carb, brown oil. LQ. Light pink granite boulder. Kimballs with minor carb, brown oil.
										Kimballs & carb.
FINAL DEPTH		25.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water] generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5M

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	157190	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	RP-RCH-03A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 26, 2021 9:00 am	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Jan. 26, 2021 6:00pm	607209	5241060	322			
NO. OF PAILS SHIPPED:	17	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand and orangy mud, BRW
3	4.5	1.5					1			GGS at 4.0m sharp contact. Color change from tan to grayish green GRW KO
4.5	6	1.5					1			clay balls, sandy matrix. KO.GRW
6	7.5	1.5		1			2			clay balls, sandy matrix. KO.GRW
7.5	9	1.5			1		1			clay balls, sandy matrix. KO.GRW
9	10.5	1.5		1			1			clay balls, sandy matrix. KO.GRW
10.5	12	1.5	1		1		1			clay balls, sandy matrix. KO.GRW
12	13.5	1.5	1				2			clay balls, sandy matrix. KO.GRW
13.5	15	1.5					1			clay balls, sandy matrix. KO.GRW
15	16.5	1.5								clay balls, sandy matrix GRW
16.5	18	1.5								clay balls, sandy matrix GRW
18	19.5	1.5	1	1						clay balls, sandy matrix GRW
19.5	21	1.5					1			clay balls, sandy matrix. KO.GRW
21	22.5	1.5	1							clay balls, sandy matrix GRW
22.5	24	1.5			1		1			clay balls, sandy matrix. KO.GRW
24	25.5	1.5					1			clay balls, sandy matrix. KO.GRW
25.5	27	1.5								clay balls, sandy matrix. KO.GRW
27	28.5	1.5					1			clay balls, sandy matrix. KO.GRW
28.5	30	1.5					1			clay balls, sandy matrix. KO.GRW
30	31.5	1.5					1			clay balls, sandy matrix. KO.GRW
31.5	33	1.5					2			clay balls, sandy matrix. KO.GRW
33	34.5	1.5								clay balls, sandy matrix GRW
34.5	36	1.5					1			clay balls, sandy matrix. KO.GRW
36	37.5	1.5		1						clay balls, sandy matrix GRW
37.5	39	1.5					1			clay balls, sandy matrix. KO.GRW
39	40.5	1.5								clay balls, sandy matrix GRW
40.5	42	1.5								clay balls, sandy matrix GRW
42	43.5	1.5					1			clay balls, sandy matrix. KO.GRW
43.5	45	1.5								clay balls, sandy matrix GRW
45	46.5	1.5					2			clay balls, sandy matrix. KO.GRW
46.5	48	1.5								clay balls, sandy matrix GRW
48	49.5	1.5	1				1			1 clay balls, sandy matrix GRW
49.5	51	1.5								Bedrock Contact 50.00m; Nip Diabase
FINAL DEPTH		49.5								Final Depth: 50.50m

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	157190	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	RP-RCH-03B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 27, 2021 10:00am	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Jan. 27, 2021 5:00pm	607212	5241063	322			
NO. OF PAILS SHIPPED:	15	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand and orangy mud, BRW
3	4.5	1.5								GGS at 4.5m sharp contact. Color change from tan to grayish green GRW KO
4.5	6	1.5						1		clay balls, sandy matrix. KO.GRW
6	7.5	1.5						2		clay balls, sandy matrix. KO.GRW
7.5	9	1.5						1	1	clay balls, sandy matrix. KO.GRW
9	10.5	1.5						1		clay balls, sandy matrix. KO.GRW
10.5	12	1.5				1		3		clay balls, sandy matrix. KO.GRW
12	13.5	1.5								clay balls, sandy matrix GRW
13.5	15	1.5								clay balls, sandy matrix GRW
15	16.5	1.5								clay balls, sandy matrix GRW
16.5	18	1.5								clay balls, sandy matrix GRW
18	19.5	1.5								clay balls, sandy matrix GRW
19.5	21	1.5						1		clay balls, sandy matrix. KO.GRW
21	22.5	1.5						1		clay balls, sandy matrix. KO.GRW
22.5	24	1.5								clay balls, sandy matrix GRW
24	25.5	1.5	1	1				1		clay balls, sandy matrix. KO.GRW
25.5	27	1.5	1	1						clay balls, sandy matrix GRW
27	28.5	1.5	1							clay balls, sandy matrix GRW
28.5	30	1.5								clay balls, sandy matrix GRW
30	31.5	1.5	1							clay balls, sandy matrix GRW
31.5	33	1.5	1	1						clay balls, sandy matrix GRW
33	34.5	1.5								clay balls, sandy matrix GRW
34.5	36	1.5						1		clay balls, sandy matrix. KO.GRW
36	37.5	1.5						1		clay balls, sandy matrix. KO.GRW
37.5	39	1.5						2		clay balls, sandy matrix. KO.GRW
39	40.5	1.5								clay balls, sandy matrix GRW
40.5	42	1.5							1	clay balls, sandy matrix GRW
42	43.5	1.5					1	1		clay balls, sandy matrix. KO.GRW
43.5	45	1.5								clay balls, sandy matrix GRW
45	46.5	1.5	1	1				1		Bedrock Contact 46.00m; Nip Diabase
46.5	47.5	1								Final Depth: 47.50m
FINAL DEPTH		46								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" KO [light chocolate colour, petrol odour with oil skim in return water]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

LIGHTNING LAKE HOLES

REVERSE CIRCULATION DRILL LOG												
GEOL LOGGER:		T. Huard		COMPANY: RJK Explorations				CLAIM #:		262530		STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		LL-RCH-01A		CONTRACTOR: SES				HOLE DIA:		3.5"		
START DRILLING HOLE:		Jan. 17, 2021 12:40pm		EASTING	NORTHING	ELEV	CASING:		NONE			
FINISH DRILLING HOLE:		Jan. 17, 2021 3:00pm		607249	5244672	302						
NO. OF PAILS SHIPPED:		2.5		AZIMUTH:	360/180	DIP:	-90					
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS		
0	1.5									HD rig deck to ground level		
1.5	3	1.5					I			Carbonate then sandy material.		
3	4.5	1.5								GGS contact # 1.5m; Carbonate with sandy matrix. Very minor small clay balls. Sandy material.		
4.5	6	1.5								Grey sandy matrix. Pale pink granite boulder.		
6	7.5	1.5						1		Smell oil before carbonate. Carbonate is light brown. Sandy matrix, grey & brown.		
7.5	9	1.5						1		Grey sandy matrix. Carbonate is very pale grey. Diabase at 8.5m.		
FINAL DEPTH		7.5										
NOTES:												
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen												
look for mixture of lithotypes												
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]												
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core												
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock												
occasionally reddish brown oxide return water above the Lorrain Granite												
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m												

REVERSE CIRCULATION DRILL LOG											
GEOL LOGGER:	T. Huard			COMPANY: RJK Explorations				CLAIM #:	262530 STORAGE LOCATION: KIRKLAND LAKE		
RC HOLE ID:	LL-RCH-01B			CONTRACTOR: SES				HOLE DIA:	3.5"		
START DRILLING HOLE	Jan. 17, 2021 3:45pm			EASTING	NORTHING	ELEV		CASING:	NONE		
FINISH DRILLING HOLE	Jan. 17, 2021 5:10pm			607244	5244679	305					
NO. OF PAILS SHIPPED	1			AZIMUTH:	360/180		DIP:	-90			

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs contact at 3m start to see carbonate/sandy mix.
3	4.5	1.5								Carbonate mix with sandy matrix/grey matrix/Boulder. At 4.25 Diabase.
FINAL DEPTH		3								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
clay (kim) balls with green return water [GRW]seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations			CLAIM #:	262530	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	LL-RCH-02A	CONTRACTOR:	SES			HOLE DIA:	3.5"		
START DRILLING HOLE	Jan. 17, 2021 9:15am	EASTING	NORTHING	ELEV	CASING:	NONE			
FINISH DRILLING HOLE	Jan. 17, 2021 10:55am	607306	5244788	311					
NO. OF PAILS SHIPPED	0	AZIMUTH:	360/180	DIP:	-90				

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud, BRW
3	4.5	1.5								Diabase. EOH 3m
FINAL DEPTH		3								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG												
GEOL LOGGER:		T. Huard			COMPANY: RJK Explorations				CLAIM #: 234633		STORAGE LOCATION: KIRKLAND LAKE	
RC HOLE ID:		LL-RCH-02B			CONTRACTOR: SES				HOLE DIA: 3.5"			
START DRILLING HOLE		Jan. 18, 2021 11:30am			EASTING		NORTHING		ELEV		CASING: NONE	
FINISH DRILLING HOLE		Jan. 18, 2021 12:45pm			607254		5244768		311			
NO. OF PAILS SHIPPED		0			AZIMUTH: 360/180		DIP:		-90			
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS		
0	1.5									HD rig deck to ground level		
1.5	3	1.5								mixed sand, orangy mud, BRW		
3	4.5	1.5								Diabase. EOH 3m		
FINAL DEPTH		3										
NOTES:												
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen												
look for mixture of lithotypes												
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]												
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core												
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock												
occasionally reddish brown oxide return water above the Lorrain Granite												
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m												

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations			CLAIM #:	262530	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	LL-RCH-04A	CONTRACTOR:	SES			HOLE DIA:	3.5"		
START DRILLING HOLE	Jan. 18, 2021 1:20pm	EASTING	NORTHING	ELEV	CASING:	NONE			
FINISH DRILLING HOLE	Jan. 18, 2021 2:00pm	607510	5244855	308					
NO. OF PAILS SHIPPED	0.5	AZIMUTH:	360/180	DIP:	-90				

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								Sandy mixture. Water is lighter than OB but not as light as Kimberlite. Diabase at 2.5m.
3	3.5	0.5								
FINAL DEPTH		2								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations			CLAIM #:	234633	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	LL-RCH-05A	CONTRACTOR:	SES			HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 19, 2021 8:30am	EASTING	NORTHING	ELEV	CASING:	NONE			
FINISH DRILLING HOLE:	Jan. 19, 2021 9:30pm	607045	5244709.2	305					
NO. OF PAILS SHIPPED:	1	AZIMUTH:	360/180	DIP:	-90				

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								Sandy fluvial mixture, BRW
3	4.5	1.5								Sandy fluvial mixture, BRW
4.5	6	1.5	1							GRW_mixed sand with clay balls GRW
6	7.5	1.5								DIABASE CONTACT @ 5m
FINAL DEPTH		6								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

NICOLE LAKE HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	329881	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	NL-RCH-01A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 19, 2021 12:40pm	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	Jan. 19, 2021 1:30pm	605917.01	5245052	313			
NO. OF PAILS SHIPPED:	2	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								SANDY ALLUVIUM
3	4.5	1.5								DIABASE CONTACT @ 4m
		0								EOH @ 4.5m
FINAL DEPTH		3								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	252459	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	NL-RCH-02A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 19, 2021 12:40pm	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	Jan. 19, 2021 3:00pm	606009	5244913	316			
NO. OF PAILS SHIPPED:	1.5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								SANDY ALLUVIUM
3	4.5	1.5								DIABASE CONTACT @ 4.5m
										EOH @ 5.0m
FINAL DEPTH		3								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	252459	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	NL-RCH-03A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE	Jan. 20, 2021 2:30pm	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE	Jan. 20, 2021 4:00pm	605976	5244736	311			
NO. OF PAILS SHIPPED	1.5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								Sandy fluvial mixture GGS CONTACT at 2.0m.
3	4.5	1.5								GRW_mixed sand, clay balls
4.5	6	1.5	1							GRW_mixed sand, clay balls
6	7.5	1.5								DIABASE CONTACT @ 7m EOH @ 7.5m
FINAL DEPTH		6								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

HSM HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	138563	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-01A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 6, 2021 3:00pm	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 7, 2021 10:20am	607999	5239879	343			
NO. OF PAILS SHIPPED:	23	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5								GGs @3.5m water turned grey. Tan carb mix. Diabase. Tan carb mix with mnr kimballs.
4.5	6	1.5								Tan carb mix with mnr kimballs. Boulders throughout.
6	7.5	1.5					1			Tan carb mix. Tan carb. Carb mix. Tan carb mix with kimballs.
7.5	9	1.5					1			Tan carb mix with kimballs. Kimballs & Tan carb, brown oil. Light brown carb, brown oil. Tan carb & kimballs.
9	10.5	1.5					1			Tan carb & kimballs. Tan mix mnr kimballs. Tan carb mix with kimballs.
10.5	12	1.5								Kimball mix (mostly kimballs), brown oil. Kimball & tan carb.
12	13.5	1.5								Kimball material & kimballs. Kimball mnr mix. Kimball mix.
13.5	15	1.5					1			Tan carb mix with kimballs. Kimball mix (mostly KBs). Tan carb (14.25 - 14.5m). Tan carb mixed with kimballs.
15	16.5	1.5								Carb mix with kimballs. Tan carb mix with kimballs.
16.5	18	1.5					1			Dark tan carb, smell oil. Carb mix with kimballs. Tan carb mix with kimballs. Kimball mix. Carb mix with kimballs. Kimball mix.
18	19.5	1.5								Kimball mix (mostly kimballs). Kimball mix. Tan carb mix with kimballs. Kimball mix.
19.5	21	1.5								Kimball material. Dark tan carb (19.5 - 20m), smell oil. Kimballs up to 1 inch.
21	22.5	1.5					1			Tan carb with kimballs. Kimball mix (mostly KBs). Kimballs.
22.5	24	1.5								Kimball mix. Tan carb & Kimballs. Kimball mix.
24	25.5	1.5								Kimball mix. Tan carb with kimballs. Kimball mix. Tan carb.
25.5	27	1.5					1			Kimball mix. Tan carb mix with kimballs. LQ. Kimball mix.
27	28.5	1.5								Kimball mix. Diabase. Kimball mix. LQ. Kimball mix. Tan carb mix with kimballs. Kimball mix.
28.5	30	1.5								Kimball mix. Kimballs. Large kimball material. Carb with kimballs. Kimball mix.
30	31.5	1.5								Kimball mix. Tan carb mix with kimballs. Kimball mix (mostly kimballs). Tan carb. Diabaseat 31.40m.
31.5	33	1.5								32.25m EOH
FINAL DEPTH		31.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	138563	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-01B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 7, 2021 11:15am	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Feb. 7, 2021 3:00pm	607956	5239867	341			
NO. OF PAILS SHIPPED:	9	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5					II			GGS @ 3m; Mix of rx material with brown kimballs. Tan carb kimball mix SM (Mnr amount of kimballs up to 1 cm). Tan carb.
4.5	6	1.5				I	I			Kimball mix. Dark tan carb, smell oil. Tan carb mix with kimballs.
6	7.5	1.5								Tan carb mix with kimballs, brown oil. Tan carb mix GSM mnr kimballs.
7.5	9	1.5								Tan carb mix with mnr kimballs. Tan carb mix with kimballs, GSM, brown oil.
9	10.5	1.5				I	I			Tan carb mix GSM then mnr kimballs mixed in, brown oil. Tan carb. Tan carb mix with kimballs, brown oil.
10.5	12	1.5				I				Tan carb & kimball mix GSM. Tan carb mix with kimballs, brown oil. Kimball mix.
12	13.5	1.5					I			Kimballs & tan carb mix (mostly kimballs). Tan carb.
13.5	15	1.5					II			Tan carb. Tan carb & kimball mix (mostly kimballs), brown oil. Dark tan carb. Kimball mix.
15	16.5	1.5								Kimball mix. Kimball & tan carb mix (mostly kimballs). Boulders throughout.
16.5	18	1.5		I			I			Tan carb (16.5 - 17.25m). Tan carb mix with kimballs, brown oil.
18	19.5	1.5		I						Tan carb mix with kimballs (mostly kimballs), Brown oil. Kimball mix, brown oil. Kimballs up to 1 cm, brown oil.
19.5	21	1.5					I			Kimball mix (mostly kimballs). Tan carb & kimballs. Kimball mix. Tan carb. Tan carb mix & kimballs.
21	22.5	1.5					III			Tan carb mix, smell oil. Tan carb. Tan carb with kimballs. Kimballs up to 1 cm. Tan carb & kimballs. Tan carb. Tan carb & kimballs, brown oil. Tan carb.
22.5	24	1.5				II	I			Kimballs with mnr tan carb. Kimball mix. Tan carb & kimballs.
24	25.5	1.5			I	I				Kimball mix with LQ & LG. Kimball mix. At 25m Diabase. EOH 25.5m
FINAL DEPTH		24								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	138563	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-02A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 5, 2021 11:15am	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 5, 2021 5:50pm	608099	5239842	346			
NO. OF PAIS SHIPPED:	12	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGS @ 2.5m water changed grey. Tan carb mix with mnr kimballs GSM.
3	4.5	1.5			I					Tan carb & kimball mix (More KB then carb), Brown oil.
4.5	6	1.5								Intervals of Tan carb mix with kimballs & Kimball mix (mnr kimballs up to 1 cm, mostly small)
6	7.5	1.5								Kimball mix & carb mix with kimballs, brown oil.
7.5	9	1.5				I				Tan carb, brown oil. Tan carb & kimballs, brown oil. Kimball mix. Tan carb mix. Kimball mix. Brown carb, smell oil.
9	10.5	1.5			I	I				Tan carb mix with kimballs, brown oil. Kimball mix. Tan carb mnr kimballs. Kimball mix, brown oil.
10.5	12	1.5			I					Tan carb mix with kimballs. Kimball mix (mostly kimballs), brown oil.
12	13.5	1.5								Kimball mix, brown oil (mostly kimballs).
13.5	15	1.5								Kimballs, brown oil.
15	16.5	1.5								Intervals of; Kimball mix (mostly kimballs). Kimballs. Kimball mix, brown oil.
16.5	18	1.5								Tan carb mix. Kimballs. Kimball mix, brown oil.
18	19.5	1.5								Kimball mix.
19.5	21	1.5				I				Kimball mix, brown oil. Light brown carb, smell oil. Light brown carb mixed with kimballs. Tan carb. Tan carb mixed with kimballs (mostly kimballs), brown oil. Kimball mix, brown oil.
21	22.5	1.5				II				Tan carb & kimballs (mostly kimballs), brown oil. Tan carb. Kimball mix with tan carb. Kimball mix. Tan carb.
22.5	24	1.5			I					Tan carb mix with kimballs. Kimballs. Kimball mix (mostly kimballs)
24	25.5	1.5								Kimball mix with tan carb. Diabase. Kimball mix. Tan carb. Kimball mix, brown oil.
25.5	27	1.5			I					Kimballs. LQ. Tan carb & kimball mix. Kimball mix. Kimballs, brown oil.
27	28.5	1.5								Kimballs up to 1 cm, brown oil. Kimball mix, brown oil. Large pieces of kimball material.
28.5	30	1.5								Large pieces of kimball material & kimballs, brown oil.
30	31.5	1.5								Kimball mix, brown oil. Kimballs, brown oil. Kimball mix, brown oil.
31.5	33	1.5		I						Large pieces of kimball. Light pink quartzite. Kimballs. Kimball mix.
33	34.5	1.5								Kimballs. Kimball mix. Kimballs. Kimball & tan carb mix. Diabase couple inches after 34m.
										Diabase. EOH 34.75m

FINAL DEPTH

33

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:		T. Huard		COMPANY: RJK Explorations			CLAIM #:	138563	STORAGE LOCATION: KIRKLAND LAKE	
RC HOLE ID:		HSM-RCH-02B		CONTRACTOR: SES			HOLE DIA:	3.5"		
START DRILLING HOLE:		Feb. 6, 2021 8:10pm		EASTING	NORTHING	ELEV	CASING:	NONE		
FINISH DRILLING HOLE:		Feb. 6, 2021 2:10pm		608050	5239863	344				
NO. OF PAILS SHIPPED:		14		AZIMUTH:	360/180	DIP:	-90			
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs @ 2.75m; GRW ; Abundant carb & brown kimballs then vmnr grey ones.
3	4.5	1.5								Tan carb mix & kimballs. Tan carb & kimballs (More KBs). Kimball mix. Brown oil.
4.5	6	1.5								Kimball mix. Tan carb mix with kimballs. Kimball mix.
6	7.5	1.5								Tan carb mix with kimballs. Kimball mix. Brown oil.
7.5	9	1.5								Carb mix with kimballs. Tan carb mix kimballs (mostly KB). Kimball mix. Light brown carb, smell oil.
9	10.5	1.5								Kimball mix. Tan carb mix with kimballs (mostly KB), brown oil. Tan carb. Tan carb & kimballs, brown oil.
10.5	12	1.5								Tan carb mix with kimballs. Kimball mix. Kimball mix. Tan carb mix with kimballs. Kimball mix, brown oil. LQ. Kimball mix, Brown oil.
12	13.5	1.5								Kimball mix, brown oil. Tan carb mix with kimballs. Kimball mix. LG. Kimball mix, brown oil.
13.5	15	1.5								Tan carb, smell oil. Kimball mix, brown oil.
15	16.5	1.5								Kimball mix. LQ. Kimball mix. Tan carb & kimballs.
16.5	18	1.5								Carb mix with kimballs. Kimball mix, brown oil. Tan carb with kimballs.
18	19.5	1.5								Kimball mix, brown oil.
19.5	21	1.5								Kimball mix, brown oil.
21	22.5	1.5								Tan carb mix with kimballs, brown oil. Kimball mix, brown oil. Tan carb mix with kimballs, brown oil. Kimball mix.
22.5	24	1.5								Kimball mix. Grey tan carb. Carb mix with kimballs, brown oil. Kimball mix with variety, brown oil.
24	25.5	1.5								Kimball mix, brown oil.
25.5	27	1.5								Kimball mix.
27	28.5	1.5								Kimball mix.
28.5	30	1.5								Kimball mix (mostly kb). Tan carb & kimballs.
30	31.5	1.5								Kimball mix. Kimball variety mix. Tan carb mix. Quartzite. Kimball variety mix. Boulders throughout.
31.5	33	1.5								Variety mix with kimballs. LQ. Kimballs. Kimball mix.
33	34.5	1.5								Kimballs, brown oil. Kimball mix.
34.5	36	1.5								Kimball mix, brown oil.
36	37.5	1.5								Tan carb. Tan carb mix, smell oil. Kimball mix (mostly KBs), brown oil. LQ. Kimballs, brown oil.
37.5	39	1.5								Kimballs up to 1 cm, Brown oil.
39	40.5	1.5								Kimballs. Few inches before 40m Diabase. EOH 41m
FINAL DEPTH		39								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-03A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 4, 2021 8:40am	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 4, 2021 3:00pm	608263	5239787	346			
NO. OF PAILS SHIPPED:	13	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5								mixed sand, orangy mud BRW
4.5	6	1.5				I				GGS @ 4.75m. Water changed grey. Tan carb mix SM vmnr kimballs. LG. Tan carb mix. Tan carb mix SM vmnr kimballs.
6	7.5	1.5					I			Tan carb mix GSM vmnr kimballs. Tan Carb. Tan carb mix GSM mnr kimballs. Diabase. Tan carb mix GSM mnr kimballs.
7.5	9	1.5								Tan carb mix GSM vmnr kimballs.
9	10.5	1.5					I			Tan carb mix GSM vmnr kimballs. Tan carb. Tan carb mix GSM. Kimballs with tan carb & brown oil.
10.5	12	1.5								Kimballs up to cm, brown oil mnr tan carb. Kimball mix mostly kimballs with mnr tan carb.
12	13.5	1.5								Kimball mix mostly kimballs with mnr tan carb, brown oil.
13.5	15	1.5					I			Tan carb mix with kimballs, brown oil. Tan carb. Tan carb mix with kimballs, brown oil.
15	16.5	1.5					I			Tan carb mix with kimballs, brown oil. Tan carb (15.75 - 16.25m). Tan carb mix with kimballs, brown oil.
16.5	18	1.5					I			Kimball mix (mostly kimballs). Tan carb mix. Tan carb (0.5m). At the end of run tan carb mix with kimballs.
18	19.5	1.5								Intervals of Kimball mix (mostly kimballs) with tan carb & Tan carb mix with kimballs.
19.5	21	1.5					I			Tan carb, brown oil. Kimball mix, brown oil (mostly kimballs).
21	22.5	1.5			I					Kimball mix. LQ. Kimball mix (mostly kimballs), brown oil. Kimballs.
22.5	24	1.5								Kimball mix (mostly kimballs). Tan carb kimball mix. Kimball mix mostly kimballs.
24	25.5	1.5		I	II					Kimball mix with tan carb. LQ. Kimball mix (mostly kimballs). LQ. Kimball mix.
25.5	27	1.5								Kimballs.
27	28.5	1.5			I					Mostly kimballs little mix. LQ.
28.5	30	1.5			I					LQ mix with tan carb GSM (lots of sand).
30	31.5	1.5			I					LQ mix with tan carb GSM (lots of sand). Kimball mix, mostly kimballs ranging up to 1 cm.
31.5	33	1.5								Kimball mix (mostly kimballs). Tan carb kimball mix. Kimball mix, brown oil.
33	34.5	1.5								Grey chips with mnr calcite. Kimballs, brown oil. Kimball material over 1 inch. Kimball mix, brown oil.
34.5	36	1.5			II		I			Kimball mix, brown oil. Tan carb. Tan carb with kimballs. LQ & kimball, brown oil. LQ. Kimball mix, brown oil.
36	36.75	0.75								Diabase. EOH 36.75m
		0								
		0								
FINAL DEPTH		35.25								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-03B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 4, 2021 4:20pm	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Feb. 5, 2021 10:15am	608227	5239810	347			
NO. OF PAILS SHIPPED:	8	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5								mixed sand, orangy mud BRW
4.5	6	1.5					I			GGS @ 4.5m; Tan carb mix GSM. Tan carb mix with tiny kimballs GRW
6	7.5	1.5					I			Kimballs & tan carb, more KB. Tan carb. Kimball mix (mostly KB). Tan carb mix with kimballs.
7.5	9	1.5								Kimbal mix (mostly kimballs), KB up to cm scale, tan carb & brown oil.
9	10.5	1.5					II			Kimbal mix (mostly kimballs), tan carb & brown oil. LG. Tan carb. Kimball mix. Tan carb (9.75 - 10.25m). Tan carb mix with kimball, brown oil.
10.5	12	1.5								Tan carb mix with kimballs, brown oil. (lot of kimballs)
12	13.5	1.5								Tan carb mix with kimballs GSM, brown oil.
13.5	15	1.5								Tan carb mix with kimballs, brown oil. Tan carb, brown oil. Tan carb mix with kimballs, brown oil. Kimball mix.
15	16.5	1.5								Tan carb mix with kimballs. Kimball mix, brown oil.
16.5	18	1.5					I			Kimball mix. Kimball mix with tan carb. Kimball mix. Tan carb & kimball, smell oil. Kimball mix, brown oil.
18	19.5	1.5								Kimball mix, brown oil. Mostly kimballs, up to 1 cm.
19.5	21	1.5								Kimball mix, brown oil. KBs up to 1 cm.
21	22.5	1.5					II			Tan carb (21 -21.5m). Kimball mix. Tan carb. Diabase. Tan carb mix with kimballs. Diabase. Kimball mix, brown oil.
22.5	24	1.5								Kimball mix, brown oil. Tan carb & kimball. Kimball mix, brown oil. Kimballs.
24	24.7	0.7								Diabase. EOH 24.75m
FINAL DEPTH		23.2								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-04A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 3, 2021 8:40pm	EASTING	NORTHING	ELEV	NONE		
FINISH DRILLING HOLE:	Feb. 3, 2021 6:50pm	608269	5239676	340			
NO. OF PAILS SHIPPED:	23	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5								GGs @ 4m; GRW
4.5	6	1.5	I							Tan carb mix GSM mnr kimballs. Granitic boulder. Tan carb mix. Carb mix GSM. Tiny kimballs, brown oil. Tan carb. Tan carb mix, Tiny kimballs, brown oil. Tan carb mix & LG. Tan carb mix & kimballs.
6	7.5	1.5								Tan carb mix GSM & tiny kimballs, brown oil.
7.5	9	1.5					I			Tan carb mix. Tiny kimballs. Kimballs, brown oil. Tan carb mix with kimballs. Tan carb, smell oil.
9	10.5	1.5				II				Tan carb mix, mostly kimballs. Tan carb mix with kimballs, LG mixed in. LG couple inches after 10m.
10.5	12	1.5								Tan carb mix, kimballs, brown oil. Little diabase. Tan carb mix with kimballs, brown oil.
12	13.5	1.5					I			Kimball with little mix, brown oil. Tan carb mix with kimballs, brown oil. Brown & tan carb, smell oil. Tan carb mix with kimballs, brown oil.
13.5	15	1.5			I					Tan carb mix with kimballs, brown oil. Diabase. Tan carb mix with kimballs, brown oil. LQ. Tan carb mix with kimballs, brown oil.
15	16.5	1.5					I			Tan carb mix, mostly kimballs, brown oil. Tan carb mix, kimballs, brown oil. Tan carb.
16.5	18	1.5					I			Tan carb & kimballs (mostly kimballs)
18	19.5	1.5					I			Tan carb & kimballs (mostly kimballs)
19.5	21	1.5					I			Tan carb & kimballs. Sections with just kimballs, some large pieces over an inch.
21	22.5	1.5								Large pieces of kimballs. Kimball with some Tan carb. Tan carb mix with GSM & kimballs. Tan carb with mnr kimballs.
22.5	24	1.5								kimball mix. Kimballs. Brown oil.
24	25.5	1.5								Kimball mix, brown oil. (Mostly kimballs)
25.5	27	1.5								kimball mix (mostly kimballs). Brown oil.
27	28.5	1.5								kimball mix (mostly kimballs). Brown oil. Tan carb.
28.5	30	1.5								Large kimballs & brown oil. Kimball mix, brown oil. Kimballs.
30	31.5	1.5		I						Kimball mix (mostly kimballs). Tan carb mix with kimballs. Kimball mix (mostly kimballs), brown oil.
31.5	33	1.5								Mostly kimballs little mix, brown oil.
33	34.5	1.5								Kimball mix (mostly kb). Kimball & Tan carb mix, mnr tan carb. Tan carb mix with kimballs.
34.5	36	1.5								Kimball mix (mostly KB), brown oil.
36	37.5	1.5	I		I					LQ, kimballs, brown oil. Kimball mix, brown oil.
37.5	39	1.5				I				Kimball mix (mostly kimballs). Tan carb mix, mnr Lg. Kimball mix (mostly kimballs).
39	40.5	1.5								Kimball mix (mostly kimballs). Kimballs mnr tan carb.
40.5	42	1.5								Kimball mix (mostly kimballs). Kimball with tan carb mix. Tan carb.
42	43.5	1.5		I						Tan carb mix. Variety mix with LQ & tan carb.
43.5	45	1.5			III					Variety mix. Carb mix vmnr kimballs. Variety mix with LQ, tan carb, & vmnr kimballs. LQ mix. Carb mix with LQ.
45	46.5	1.5			II	II				LG. Carb mix. LQ mix. Small amount LG, LQ then sand at the end.
46.5	48	1.5			II	III				Variety with GSM. Variety with kimballs, LG, & LQ. LQ & LG. Variety with carb, kimballs, & LG. Kimball mix.
48	49.5	1.5			IIII	II				LG, LQ, tan carb mix. Kimball mix, Tan carb & LQ. Tan carb mix with kimballs. LQ mix. LQ, LG, Tan carb mix with kimballs.
49.5	51	1.5			III					LQ mix has tan carb GSM. LQ. LQ mix has carb GSM. Filling up screen.
51	52.5	1.5			I					LQ mix GSM, filling up screen.
52.5	54	1.5			I					LQ mix GSM, filling up screen.
54	55.5	1.5			I					LQ mix GSM, filling up screen. Larger pieces of green & pink quartzite. LQ. Mix with tan carb & little LG.
55.5	57	1.5			III					LQ mix with tan carb. Larger pieces filling up screen. LQ. LQ mix. Mix with vmnr tiny kimballs & tan carb.
57	58.5	1.5								Little mix. Some diabase mixed in then carb and vmnr kimballs. EOH 57.5m (Lost hole)

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION D DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-05A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 1, 2021 9:15am	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 1, 2021 4:09pm	608356	5239586	334			
NO. OF PAILS SHIPPED:	13	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL									
0	1.5	1.5	HD rig deck to ground level	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
1.5	3	1.5									mixed sand, orangy mud BRW
3	4.5	1.5									mixed sand, orangy mud BRW
4.5	6	1.5			I						mixed sand, orangy mud BRW
6	7.5	1.5					I				GGS @ 6m; GRW. Mostly Tan carb, smell oil. Carb mix with SM then water turned brown. At 7m screen not filling up as much.
7.5	9	1.5									Brown water. Variety with more carb. Light pink granite. At 8.75m carb with SM, smell of oil but water is still brown.
9	10.5	1.5									At 9.5m water turned grey. Variety of rx, no SM.
10.5	12	1.5			II						Variety with mnr carb, little SM. Near end carb mix GSM.
12	13.5	1.5								I	Grey carb. Tan carb mix, no sandy matrix. Tan carb mix little GSM. Near end water changed to light grey. Tan carb & mnr kimballs.
13.5	15	1.5					I			I	Carb mix. Tan carb mix SM. Tan carb. Carb mix no SM.
15	16.5	1.5		I							carb mix no SM. Tan carb mix little SM. MV boulder. Tan carb mix little SM.
16.5	18	1.5			I			I			LQ. Carb mix little SM. Tan carb SM. Brown oil. Tan carb.
18	19.5	1.5					I				Tan carb mix. Lg. Tan carb mix. Tan carb. Brown oil.
19.5	21	1.5									Carb mix GSM. Tan carb mix.
21	22.5	1.5			I						Carb mix GSM. LQ. Carb mix GSM.
22.5	24	1.5					I				Carb mix little SM. Brown oil. Vmnr kimballs. LG.
24	25.5	1.5			I		I				Tan carb mix little SM. Brown oil. LG. LQ (0.25m). At 25m seen mnr kimballs then tan carb mixed with mnr tiny kimballs. Brown oil.
25.5	27	1.5					I	III			Tan carb mixed with mnr tiny kimballs. Tan carb. Tan carb mix & tiny kimballs, LG. Tan Carb. Tan carb mix with tiny kimballs. Tan carb. Tan carb mix & tiny kimballs. At 26.75m diabase then back to mix of mostly kimballs. Brown oil.
27	28.5	1.5									Kimball mix. Brown oil.
28.5	30	1.5									Kimball mix. Brown oil.
30	31.5	1.5									Kimball mix. Tan carb with kimballs. Kimball mix. Brown oil.
31.5	33	1.5	I								kimball mix (getting larger). Brown oil, light pink granite (.25m). At 32.5m tiny kimballs. Brown oil.
33	34.5	1.5			II		I				Kimball mix. At 34.25m seen LG after LQ then mnr kimballs then LQ. At very end see kimball mix.
34.5	36	1.5	I		II			I			Kimball mix. Tan carb. Mix of material including LQ then Light pink granite then mix mainly LQ.
36	37.5	1.5			III			I			LQ variety of rx mix. LQ. LQ variety, vmnr kimballs. Med sized kimball mix. Tan carb. Smell oil.
37.5	39	1.5	I								Tan carb mix with tiny kimballs. Granite boulder. Kimball matrix. Tan carb with kimballs.
39	40.5	1.5					I				Tan carb mix with med sized kimballs. At 39.75m see LG in kimballs. 40.5m EOH.
FINAL DEPTH		39									

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-05B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 2, 2021 8:40pm	EASTING	NORTHING	ELEV	NONE		
FINISH DRILLING HOLE:	Feb. 2, 2021 6:50pm	608317	5239642	337			
NO. OF PAILS SHIPPED:	20	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, orangy mud BRW
3	4.5	1.5								mixed sand, orangy mud BRW
4.5	6	1.5			I					mixed sand, orangy mud BRW
6	7.5	1.5			I					GGs @ 6.75m; GRW; Variety mix with carb. Light brown carb.
7.5	9	1.5			I					Carb mix with kimballs. Light brown carb. Tan carb mix, vmnr kimballs. Tan carb.
9	10.5	1.5			I					Tan carb mix SM & kimballs. At 9.3m amount of kimballs increase. Tan carb. At 10m tan carb mix, kimballs.
10.5	12	1.5								Tan carb. Tan carb mix. Kimballs, brown oil. Quartzite. Tan carb mix, kimballs, brown oil. Light grey carb. Carb mix with kimballs. Tan carb mix, kimballs.
12	13.5	1.5								Tan carb mix SM. Tan carb mix, kimballs. Tan carb. Grey carb. Diabase (13 - 13.25m)
13.5	15	1.5								Tan carb mix with kimballs.
15	16.5	1.5								Tan carb mix with kimballs. Grey carb. Tan carb mix mnr kimballs.
16.5	18	1.5								Tan carb mix SM. Brown oil. Dark tan carb, brown oil. Tan carb mix SM. Granite boulder. Grey carb. Tan carb mix SM.
18	19.5	1.5				III				Tan carb mix SM, vmnr kimballs. Brown oil. Tan carb. Tan carb mix SM mnr kimballs. LG. carb mix SM. LG. Tan carb mix SM vmnr kimballs. Brown oil.
19.5	21	1.5								Tan carb mix SM, vmnr kimballs. Tan carb. Tan carb mix SM.
21	22.5	1.5								Tan carb. Carb mix SM. Brown oil. Tan carb mix SM, brown oil.
22.5	24	1.5	I							Kimball mix. Tan carb. Tan carb mix, kimballs & brown oil. Kimballs. Tan carb. Kimball mix, brown oil. Kimballs & Tan carb.
24	25.5	1.5			II		II			LQ. Kimball mix. Tan carb. Tan carb mix, kimballs. Tan carb & kimballs, LQ & LG mixed in. Tan carb. Kimball mix, LG.
25.5	27	1.5			I		II			LG. Kimball mix. LG. LQ. Kimball mix (mostly kBs), brown oil
27	28.5	1.5								Kimball mix. LG (27 - 27.25). Tan carb & kimballs. Kimball mix.
28.5	30	1.5								Kimball mix. Tan carb. Med sized kimballs. Brown oil.
30	31.5	1.5								Med kimballs, brown oil.
31.5	33	1.5								Kimballs up to cm size, brown oil. LG mixed in at end.
33	34.5	1.5								Kimballs up to cm size, brown oil. LG mixed in at end.
34.5	36	1.5								Kimballs, brown oil.
36	37.5	1.5	I		I					Kimballs, brown oil. Tan carb. Kimballs, brown oil.
37.5	39	1.5								Kimball mix. LQ. Light pink boulder (36.5 - 36.75m). Kimballs.
39	40.5	1.5								Kimballs up to cm size, brown oil. LQ. Kimballs up to an inch, brown oil. Tan carb, brown oil. Kimball mix.
40.5	42	1.5								Kimball mix, brown oil. Tan carb. Tan carb mix with kimballs, brown oil. LQ. Kimball mix, LG mixed in.
42	43.5	1.5						II		Tan carb mix vmnr kimballs. Tan carb, smell oil. Greywacke boulder. Kimball mix. LQ. Kimball mix. Light pink granite. Tan carb. Tan carb mix SM mnr kimballs. Kimball mix.
43.5	45	1.5								Carb & kimballs mixed with variety of rx. Variety mix SM.
45	46.5	1.5								Tan carb, LQ, In Kimball mix.
46.5	48	1.5	II							Tan carb mix. Vmnr kimballs. Tan carb mix, kimballs.
48	49.5	1.5								Kimball mix. Light pink granite. Kimballs. LQ Variety with SM. Light pink granite. Large kimballs. Kimball mix.
49.5	51	1.5								LQ variety with SM. LQ. LQ variety mix.
51	52.5	1.5								LQ Variety mix. At end tiny kimballs & little LG.
52.5	54	1.5								Kimball mix. Variety of rx with mnr kimballs. Greywacke boulder. Variety mix with kimballs. LQ (.25m) near end then seen a dozen kimballs. Greywacke.
54	55.5	1.5								Kimballs. Carb mix with little SM & mnr kimballs. Diabase. Kimballs. Kimball mix. Tan carb mix with kimballs.
55.5	57	1.5								Tan carb mix with kimballs. Variety mix with mnr kimballs. Variety mix SM.
57	58.5	1.5								Tan carb & kimball mixed with a variety of rx. LQ variety mix SM.
58.5	60	1.5								Variety with SM. Tan carb increased. Variety of rx filling screen with larger pieces and much sand.
60	61.5	1.5								Variety of rx filling screen with larger pieces and much sand. At 59.75m diabase. Diabase. EOH 60.5m

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	203195	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	HSM-RCH-06A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Jan. 30, 2021 10:36am	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Jan. 31, 2021 11:45am	608462	5239432	320			
NO. OF PAILS SHIPPED:	23	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs @ 1.5m; GRW. Tan carb mix mnr sand. Mnr tan carb in mix with sandy matrix. Light pink granite boulder.
3	4.5	1.5								Tan carb mix with sandy matrix. Mostly tan carbonate. Tan carb mix mnr sandy matrix. Tan carb mix with sandy matrix.
4.5	6	1.5								Tan carb mix with sandy matrix (larger variety of material)
6	7.5	1.5								Tan carb mix with sandy matrix (larger variety of material). Next mostly sand. Brown oil at the end.
7.5	9	1.5								Large variety of material. Oil. Water turned orange brown then brown at 8m with large variety of material.
9	10.5	1.5								Tan carb mix sandy matrix then large variety material in the mix. Brown oil. LG. Tan carb mix. White granitic boulder.
10.5	12	1.5								LQ mix with grey sandy matrix. Tan carb mix. LQ & tan carb mix. Diabase. Mostly sand with mnr tan carb. At 11.75m granite boulder.
12	13.5	1.5								Tan carb mix with grey sandy matrix & LG & LQ. At 13m tiny kimballs with tan carb. Tiny kimballs with brown oil. Kimballs with tan carb, brown oil.
13.5	15	1.5								Tiny kimballs. Tan carb. Tiny kimballs, brown oil.
15	16.5	1.5								Tiny kimballs. Brown oil. Very minor tan carb then back to tiny kimballs. LQ. LG. Tan carb. Tiny kimballs. LQ. Brown oil.
16.5	18	1.5								Tiny kimballs. Brown oil. At 17m - 17.25m LG. Tiny kimballs & LQ. Brown oil.
18	19.5	1.5								Tan carb & Tiny kimballs. LQ & Tiny kimballs. Tiny kimballs. LQ. Tiny kimballs.
19.5	21	1.5								Tiny kimballs. LQ (20 - 20.5m). Tiny kimballs. Tiny kimballs mnr tan carb. Tiny kimballs.
21	22.5	1.5								Tiny kimballs. LQ. Tiny kimballs. Tan carb. Tiny kimballs.
22.5	24	1.5								Tiny kimballs. LQ & Tiny kimballs. Tiny kimballs & tan carb. LQ, tiny kimballs & carb. Tiny kimballs & carb. Light granite (0.5m). Tiny kimballs. Water is chocolate.
24	25.5	1.5								Tiny kimballs & tan carb. Tan carb, water back to grey. Tan carb & tiny kimballs. Dark tan carb & tiny kimballs. Tiny kimballs. Kimballs mixed with granite boulder.
25.5	27	1.5								Tiny kimballs mnr LG. Tiny kimballs & carb. LG. LG at 26.75m
27	28.5	1.5								27.75m EOH
FINAL DEPTH		27								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG											
GEOL LOGGER:		T. Huard		COMPANY: RJK Explorations			CLAIM #:		203195		
RC HOLE ID:		HSM-RCH-07A		CONTRACTOR: SES			HOLE DIA:		3.5"		
START DRILLING HOLE:		Jan 28, 2021 12:40am		EASTING	NORTHING	ELEV	CASING:		NONE		
FINISH DRILLING HOLE:		Jan 29, 2021 6:00pm		608479	5239242	314					
NO. OF PAILS SHIPPED:		21		AZIMUTH:	360/180	DIP:	-90				
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS	
0	1.5									HD rig deck to ground level	
1.5	3	1.5								med to cg sand, no boulders	
3	4.5	1.5					1			.5M CARB CLAST; BRW	
4.5	6	1.5								med to cg sand, no boulders	
6	7.5	1.5								med to cg sand, no boulders	
7.5	9	1.5					1			kim oil	
9	10.5	1.5				1					
10.5	12	1.5								no clasts; fg sand	
12	13.5	1.5								no clasts; fg sand	
13.5	15	1.5	1							GGs @ 13,5m; greenish gray return water	
15	16.5	1.5					1			tan carb, mixed sand; kim oil	
16.5	18	1.5			1	1	2			tan carb, mixed sand; kim oil	
18	19.5	1.5								tan carb, mixed sand; kim oil	
19.5	21	1.5								kim oil. Large kim balls	
21	22.5	1.5								kim oil. Large kim balls	
22.5	24	1.5					2			1 kim oil. Tiny kim balls	
24	25.5	1.5		1			1			kim oil. Tiny kim balls	
25.5	27	1.5					1			kim oil. Tiny kim balls	
27	28.5	1.5					1			kim oil. Tiny kim balls	
28.5	30	1.5		1			1			2 kim oil. Tiny kim balls	
30	31.5	1.5								1 tan carb, mixed sand; kim oil	
31.5	33	1.5					1			tan carb, mixed sand; kim oil	
33	34.5	1.5	1				2			tan carb, mixed sand; kim oil	
34.5	36	1.5	1	1	1					Tiny kim balls	
36	37.5	1.5	1							Tiny kim balls	
37.5	39	1.5					1			1 kim oil. Tiny kim balls	
39	40.5	1.5			1					Tiny kim balls	
40.5	42	1.5			1					tiny kim balls	
42	43.5	1.5								1 Tiny kim balls	
43.5	44	0.5					1			1 bottom GGS contact @ 44m	
44	45	1								black chloritic gabbro; no feldspar	
FINAL DEPTH		43.5									
NOTES:											
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen											
look for mixture of lithotypes											
GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]											
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core											
clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock											
occasionally reddish brown oxide return water above the Lorrain Granite											
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m											

REVERSE CIRCULATION DRILL LOG										
GEOL LOGGER:		PCH / TH		COMPANY: RJK Explorations			CLAIM #:		203195	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		HSM-RCH-07B		CONTRACTOR: SES			HOLE DIA:		3.5"	
START DRILLING HOLE:		Jan. 29, 2021 8:40pm		EASTING	NORTHING	ELEV	CASING:		NONE	
FINISH DRILLING HOLE:		Jan. 30, 2021 12:50pm		608477	5239359.83	317				
NO. OF PAIS SHIPPED:		11		AZIMUTH:		360/180	DIP:		-90	
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								med to cg sand, no boulders
3	4.5	1.5								mixed sand, gray/ green RW
4.5	6	1.5								mixed sand, gray/ green RW
6	7.5	1.5								mixed sand, gray/ green RW
7.5	9	1.5								mixed sand, gray/ green RW
9	10.5	1.5							1	mixed sand, gray/ green RW
10.5	12	1.5					1			mixed sand, gray/ green RW
12	13.5	1.5		1	1	1				mixed sand, gray/ green RW
13.5	15	1.5			1					mixed sand, gray/ green RW
15	16.5	1.5			1	1	1			.3m tan carb, kim oil
16.5	18	1.5				1	2			GGs upper contact @ 16.5m, no glacial-fluvial sand
18	19.5	1.5		1			1			kim oil. Tiny kim balls
19.5	21	1.5								kim oil. Tiny kim balls
21	22.5	1.5								kim oil. Tiny kim balls
22.5	24	1.5					1			kim oil. Tiny kim balls
24	25.5	1.5		2						mixed sand, gray/ green RW
25.5	27	1.5	1		2					mixed sand, gray/ green RW
27	28.5	1.5	1	1	1		2			kim oil
28.5	30	1.5		1						kim oil. Tiny kim balls,
30	31.5	1.5								kim oil. Tiny kim balls
31.5	33	1.5				1	2			kim oil. Tiny kim balls
33	34.5	1.5					1			kim oil. Tiny kim balls
34.5	36	1.5	1							kim oil. Tiny kim balls
36	37.5	1.5	1		1		1			kim oil. Tiny kim balls
37.5	39	1.5	2			1				Light pink granite. Tiny Kimballs. Brown oil. LG & Light pink granite at 37.75m. At 38 38.4m LG. Kimballs.
39	40.5	1.5								Tiny Kimballs.
40.5	42	1.5				1				Tiny Kimballs. Tan carb mnr kimballs. Tiny kimballs. LQ mixed in kimballs. Kimballs & Tan carb.
42	43.5	1.5	1							Med kimballs. Tan carb & kimballs. Kimballs up to cm. Tiny kimballs. At 43m small granite boulder. Tiny and medium kimballs.
43.5	45	1.5				1	2			Med kimballs. Tiny kimballs. Kimballs up to cm. Small LG boulder then LQ then LG with mnr kimballs.
45	46.5	1.5	1							Tiny kimballs. Brown oil. Kimballs up to cm, brown oil. Tiny kimballs, brown oil. Granite boulder. Tiny - med kimballs.
46.5	48	1.5								Tiny kimballs. Brown oil. Intervals of Kimballs up to cm and tiny kimballs, brown oil.
48	49.5	1.5					1			Tiny to large kimballs. Brown oil. LG just a few inches into run. 49.5m EOH
FINAL DEPT		48								
NOTES:										
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen										
look for mixture of lithotypes										
GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]										
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core										
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock										
occasionally reddish brown oxide return water above the Lorrain Granite										
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m										

GRAVEL PIT HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568013	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-01A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 8, 2021 3:25pm	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 4, 2021 8:50am	610680	5236359	266			
NO. OF PAILS SHIPPED:	9	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								sandy alluvium with mud, BRW
12	13.5	1.5								sandy alluvium with mud, BRW
13.5	15	1.5								sandy alluvium with mud, BRW
15	16.5	1.5								sandy alluvium with mud, BRW
16.5	18	1.5								GGs AT 17.75 water turned grey, sand.
18	19.5	1.5								Variety of rx material, little carb GSM.
19.5	21	1.5								Variety of rx material, increased carb GSM.
21	22.5	1.5					I			Variety of rx material, increased carb GSM. At 22.25 tan carb. Near end tan carb mix.
22.5	24	1.5								Tan carb mix GSM.
24	25.5	1.5								Very sandy, screen filling fast.
25.5	27	1.5								Very sandy, screen filling fast.
27	28.5	1.5			I					Lot of sand & LQ with mnr carb.
28.5	30	1.5			II					Lot of sand & LQ with mnr carb. Purple quartzite. Mix. Just after 29diabase. At 29.75m LQ with GSM.
30	31.5	1.5			I					Variety of larger rx material. Diabase. Variety with LQ & mnr tan carb. Epidote.
31.5	33	1.5			I					Variety of rx material with LQ & tan carb then more LQ and less tan carb.
										Variety mix with tan carb & GGS & LQ. 6 inches before 34m hit granite. EOH 34.5m
FINAL DEPTH		31.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:		T. Huard		COMPANY: RJK Explorations			CLAIM #:		568012		STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		GP-RCH-02A		CONTRACTOR: SES			HOLE DIA:		3.5"		
START DRILLING HOLE:		Feb. 9, 2021 9:30am		EASTING	NORTHING	ELEV	CASING:		NONE		
FINISH DRILLING HOLE:		Feb. 9, 2021 3:55pm		610613	5236426	274					
NO. OF PAILS SHIPPED:		13		AZIMUTH:	360/180	DIP:	-90				
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS	
0	1.5									HD rig deck to ground level	
1.5	3	1.5								sandy alluvium with mud, BRW	
3	4.5	1.5								sandy alluvium with mud, BRW	
4.5	6	1.5								sandy alluvium with mud, BRW	
6	7.5	1.5								sandy alluvium with mud, BRW	
7.5	9	1.5								sandy alluvium with mud, BRW	
9	10.5	1.5								sandy alluvium with mud, BRW	
10.5	12	1.5								sandy alluvium with mud, BRW	
12	13.5	1.5								sandy alluvium with mud, BRW	
13.5	15	1.5								sandy alluvium with mud, BRW	
15	16.5	1.5								sandy alluvium with mud, BRW	
16.5	18	1.5								sandy alluvium with mud, BRW	
18	19.5	1.5								sandy alluvium with mud, BRW	
19.5	21	1.5								sandy alluvium with mud, BRW	
21	22.5	1.5								GGs @ 21.5m water turned grey. Sand.	
22.5	24	1.5								At 23.75m Mix of material with tan carb GSM & 1 kimball seen.	
24	25.5	1.5			I					Tan carb mix GSM. LQ just after 24.5 for 0.5m. Tan carb mix.	
25.5	27	1.5								Mix with tan carb GSM & LQ. Purple quartzite. Mix with tan carb GSM & LQ.	
27	28.5	1.5			II		I			More LQ mix GSM. Tan carb. Tan carb & LQ mix GSM (vmnr LG). Screen filling up, lots of sand.	
28.5	30	1.5			I					LQ with tan carb mix GSM.	
30	31.5	1.5			II		I			LQ with tan carb mix GSM. LG. (30.5 - 30.9). LQ with tan carb mix GSM.	
31.5	33	1.5			III		I			LQ mix. Tan carb. LQ mix & tan carb. LQ.	
33	34.5	1.5			I					LQ mix & tan carb mix.	
34.5	36	1.5			I	I				LQ mix & tan carb mix. LG (35 - 35.75m). Tan carb mix.	
36	37.5	1.5			IIII					Tan carb mix with LQ GSM. LQ. Tan carb mix with LQ GSM. LQ. Tan carb mix with LQ GSM. LQ.	
37.5	39	1.5			I		I			0.5m of LQ. Mix. Tan carb, smell oil.	
39	40.5	1.5			II					LQ tan carb mix GSM. LG. Back to mix.	
40.5	42	1.5			I					Tan carb LQ mix GSM.	
42	43.5	1.5			IIII	II				Tan carb LQ mix GSM. LQ. Tan carb LQ mix GSM vmnr kimballs. Greywacke. LG. LQ & LG & Tan carb mix.	
43.5	45	1.5		I						Tan carb mix. Kimballs. Kimball mix. Quartzite mix. Kimballs.	
45	46.5	1.5								Kimballs over 1 inch. Kimballs & LG. LG at 45.5m EOH 46.5m	
FINAL DEPTH		39									

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-02B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 9, 2021 4:50pm	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 10, 2021 11:40am	610597	5236497	274			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								sandy alluvium with mud, BRW
12	13.5	1.5								sandy alluvium with mud, BRW
13.5	15	1.5								sandy alluvium with mud, BRW
15	16.5	1.5								sandy alluvium with mud, BRW
16.5	18	1.5								GGs @ 17.5m water changed grey. Sand.
18	19.5	1.5								Sand
19.5	21	1.5								Sand
21	22.5	1.5								Tan carb mix GSM, smell oil.
22.5	24	1.5								Tan carb mix, little GSM.
24	25.5	1.5				3				Tan carb mix, little GSM vmnr LQ. LQ. Tan carb mix, little GSM vmnr LQ.
25.5	27	1.5				4	3			Carb mix GSM mnr LQ. Greywacke/Shale boulder. Tan carb mix mnr LQ. LQ. LG. Tan carb mix & LQ & LG. LG
27	28.5	1.5								LG EOH 28m
FINAL DEPTH		27								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-03A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 10, 2021 12:25pm	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Feb. 10, 2021 3:45pm	610603	5236586	277			
NO. OF PAILS SHIPPED:	7	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								sandy alluvium with mud, BRW
12	13.5	1.5								sandy alluvium with mud, BRW
13.5	15	1.5								sandy alluvium with mud, BRW
15	16.5	1.5								GGS contact @ at 16m. Sand.
16.5	18	1.5								Sand
18	19.5	1.5								Sand
19.5	21	1.5								Sand vmnr kimballs. Small amount of tan carb mix.
21	22.5	1.5								Tan carb mix GSM vmnr LQ.
22.5	24	1.5								Tan carb mix GSM vmnr LQ.
24	25.5	1.5			III	I				Tan carb mix GSM vmnr LQ. LQ. LQ with tan carb & LG mix.
25.5	27	1.5			II	I				LQ & Tan carb mix very GSM. LQ, Tan carb, & LG GSM.
27	28.5	1.5			II					LQ mix with tan carb GSM. LQ. Dark brown quartzite mix. Tan carb mix with GSM. Boulders throughout.
28.5	30	1.5			II	II	I			Quartzite mix GSM. Tan carb, LG, & LQ. variety mix. Tan carb mix with vmnr kimballs. LG with little mix. LQ. Tan carb mix vmnr kimballs. Variety mix. Tan carb.
30	31.5	1.5			III	I	II			LQ mix. Tan carb. LQ mix with LG. Tan carb mix with kimballs. Mix of all material including kimballs. LQ. Tan carb mix with mnr kimballs. Tan carb, smell oil.
31.5	33	1.5					I			Tan carb, smell oil. Mix of all material including kimballs. EOH 33m
FINAL DEPTH		31.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568013	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-03B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 10, 2021 4:50pm	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	Feb. 11, 2021 10:40am	610623	5236628	278			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								GGs @ 10.5M; Water turned grey.
12	13.5	1.5								Sand
13.5	15	1.5								sand vmnr kimballs.
15	16.5	1.5								Sand vmnr carb.
16.5	18	1.5								Sand. At 17.25m Tan carb mix.
18	19.5	1.5								Water turned brown, material like OB. ~6 inches before 19m Diabase. At 19m OB material. At end of hole grey water, carb mix.
19.5	21	1.5			II					Tan carb LQ mix. Tan carb mix. At 20m Brown water again. LQ. Still brown with brown kimballs. Tan carb mix. OB material.
21	22.5	1.5			II	II				Brown water, OB. LQ. At 21.5m grey water & tiny kimballs mix & LQ. Kimball mix. At 22.25m start to see LG mixed in. Tan carb mix then LG mixed in. Tan carb mix.
22.5	24	1.5			III					Tan carb LQ Kimball mix. LQ. Tan carb kimball mix. Kimball mix. LQ. Kimball mix. LQ. Kimball mix. Boulders throughout.
24	25.5	1.5			II	III				Brown oil. Kimball mix mostly kimballs. LQ & LG mixed in. Kimball mix. LG. Kimball mix. Carb mix. LG. Kimball mix. LG. Kimballs & LQ.
25.5	27	1.5								Kimball mix. Greywacke boulder.
27	28.5	1.5	I		I	I				Kimball mix. LG. Kimball mix. LQ. Kimball mix. Dark quartzite. Kimball mix. Granite. Tan carb.
28.5	30	1.5								0.5m Dark quartzite & mnr py. Tan carb mnr kimballs. Kimball mix.
30	31.5	1.5				II				Tan carb kimball mix. Kimballs. Few inches past 30.5m LG with vmnr large kimballs (5 or 6). Few inches before 31m LG. EOH 31.5m
FINAL DEPTH		30								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-04A	CONTRACTOR:	SES	HOLE DIA:	3.5"	EACH PAIL HOLDS 2 DRILLING RUNS - EACH	
START DRILLING HOLE:	Feb. 11, 2021 11:45am	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	Feb. 11, 2021 1:40pm	610480	5236522	273			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								sandy alluvium with mud, BRW
12	13.5	1.5								GGS @12.5m water turned grey. Sand.
13.5	15	1.5								Vmnr tan carb mix mostly sand.
15	16.5	1.5								Sand.
16.5	18	1.5								Brown sand.
18	19.5	1.5								Grey again. Tan carb mix GSM (mostly mix)
19.5	21	1.5								Tan carb mix GGS (mostly mix). LG. Tan carb mix GGS.
21	22.5	1.5								Tan carb mix GGS.
22.5	24	1.5								Tan carb mix GGS. LG at 23.5
24	25.5	1.5								LG. EOH 24.25m
FINAL DEPTH		24								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-04B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 11, 2021 2:12pm	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	Feb. 12, 2021 11:40am	610488	5236556	275			
NO. OF PAILS SHIPPED:	8	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								sandy alluvium with mud, BRW
12	13.5	1.5								sandy alluvium with mud, BRW
13.5	15	1.5								sandy alluvium with mud, BRW
15	16.5	1.5								sandy alluvium with mud, BRW
16.5	18	1.5								sandy alluvium with mud, BRW
18	19.5	1.5								sandy alluvium with mud, BRW
19.5	21	1.5								sandy alluvium with mud, BRW
21	22.5	1.5								sandy alluvium with mud, BRW
22.5	24	1.5								GGs @ 23.5m water turned grey. Tan carb mix (large variety)
24	25.5	1.5			I					Tan carb mix GSM, LQ in mix.
25.5	27	1.5			I	I				Tan carb mix GSM, LQ & LG in mix.
27	28.5	1.5			II	I				LQ mix mnr Tan carb (mostly LQ). At 27.75 - 28m Diabase. LQ mix with tan carb & LG GSM, mostly LG at end.
28.5	30	1.5			II	III				At 28.5 - 29m LG. LQ mix & creamy water. At 29.5m grey water & LQ mix with LG mixed in. About 10 inches before 30m mostly LG then few inches before complete LG.
30	31.5	1.5			IIII	III				LG. LQ mix mnr carb & LG (mostly LQ). LQ mix tan carb GSM. Quartzite. Tan carb. Little LQ mix. Tan carb mix. Little LQ mix. Tan carb mix. LQ mix with purple quartzite.
31.5	33	1.5			II	I				LQ mix GGS. LQ. LQ mix with LG. Syenite. LQ. Pale pink quartzite at 32.25m
33	34.5	1.5			I	I				LG. LQ mix.
34.5	36	1.5			II					LQ mix GGS. Granite mix. LQ mix GGS. EOH 36m Lost Rods.
FINAL DEPTH		34.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-05A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 12, 2021 12:20pm	EASTING	NORTHING	ELEV			
FINISH DRILLING HOLE:	Feb. 12, 2021 3:10pm	610364	5236695	271			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								sandy alluvium with mud, BRW
7.5	9	1.5								sandy alluvium with mud, BRW
9	10.5	1.5								sandy alluvium with mud, BRW
10.5	12	1.5								GGs @11.5m water turned grey. Tan carb mix GSM.
12	13.5	1.5			I					Tan carb mix GSM vmnr LQ.
13.5	15	1.5			I					Tan carb mix GSM vmnr LQ.
15	16.5	1.5			I					Tan carb mix GSM vmnr LQ.
16.5	18	1.5		I	II					Tan carb mix GSM vmnr LQ. Tan carb & LQ mix GSM.
18	19.5	1.5			II	I				Brown water. Tan carb mix mnr brown kimballs & mnr LQ. Halfway through run water turned grey. LQ mix. Kimball mix. Grey tan carb & kimball mix. Kimball mix mnr LQ, LG, & Tan carb (mostly kimballs).
19.5	21	1.5			I					Kimball mix vmnr tan carb & LQ. Tan carb & kimballs. Kimball mix (mostly kimballs). Grey tan carb. Kimball mix, brown oil (mostly kimballs) & tan carb.
21	22.5	1.5			I	I				LQ Kimball mix. Kimball mix. At 21.5m LG. EOH 22.5m
FINAL DEPTH		21								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGs]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	T. Huard	COMPANY:	RJK Explorations	CLAIM #:	568012	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	GP-RCH-06A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	Feb. 12, 2021 10:30am	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	Feb. 13, 2021 12:45pm	610530	5236734	274			
NO. OF PAILS SHIPPED:	11	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								sandy alluvium with mud, BRW
3	4.5	1.5								sandy alluvium with mud, BRW
4.5	6	1.5								sandy alluvium with mud, BRW
6	7.5	1.5								GGS @ 6m; GRW. Sand
7.5	9	1.5								Sand.
9	10.5	1.5								Sand. Couple kimballs on screen.
10.5	12	1.5							I	Sand & Kimballs with tan carb mix (mnr). Tan carb mix Very GSM.
12	13.5	1.5			III					Tan carb mix GSM. LQ mix. LQ. LQ mix.
13.5	15	1.5	II							Tan carb mix GSM. 14.25m dark granite mixed. 14.5m granite. 14.75 Tan carb mix GSM.
15	16.5	1.5				I				Tan carb mix GSM. LG. Tan carb mix GSM.
16.5	18	1.5			I					Tan carb & LQ mix.
18	19.5	1.5			I					LQ mix mnr carb GSM.
19.5	21	1.5			I	I				LQ mix mnr Tan carb, mnr oxidized quartzite, mnr LG GSM.
21	22.5	1.5			II	II				LQ mix, Tan carb & mnr LG very GSM. Kimballs. Kimballs & LG. LQ GSM.
22.5	24	1.5			I					LQ. Tan carb mix vmnr kimballs. Kimball mix (tiny kimballs).
24	25.5	1.5	I		I	I				Very pale pink granite (1/2m). Kimball mix. Near end LG & LQ mixed in.
25.5	27	1.5				I				Little mix of everything. Tan carb & kimballs with LG.
27	28.5	1.5				II				Kimballs. Altered carb. Kimballs. Grey carb, kimballs, LG. Quartzite & kimballs. At 27.75m LG. Kimball mix. LG.
28.5	30	1.5				I				LG EOH 29.25m
FINAL DEPTH		28.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, floating "kim oil" [light brown colour with petrol odour]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to be common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

PARADIS BEAVER DAM HOLES

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	175091	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-01A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	900am March 18, 2021	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	1115am March 18, 2021	606718	5242374	344			
NO. OF PAILS SHIPPED:	8	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand
3	4.5	1.5					1			At 3.5m sharp contact. Color change from tan to grayish green green.
4.5	6	1.5					1			
6	7.5	1.5	1						1	
7.5	9	1.5					1			Bedrock Contact 8.0m; Lorrain granite
										Final Depth: 9m
FINAL DEPTH		7.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIAL GREEN SANDY FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 clay balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG											
GEOL LOGGER:		P. Hubacheck		COMPANY: RJK Explorations				CLAIM #:		175091	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		PBD-RCH-01B		CONTRACTOR: SES				HOLE DIA:		3.5"	
START DRILLING HOLE:		11:30am March 18, 2021		EASTING	NORTHING	ELEV	CASING:		NONE		
FINISH DRILLING HOLE:		1:00pm March 18, 2021		606722	5242372	344					
NO. OF PAILS SHIPPED:		4		AZIMUTH:	360/180	DIP:	-90				
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS	
0	1.5									HD rig deck to ground level	
1.5	3	1.5								pebbly sand	
3	4.5	1.5						1		At 3.0m GGS sharp contact. Color change from tan to grayish green green.	
4.5	6	1.5								clay balls	
6	7.5	1.5								clay balls	
7.5	9	1.5							1		
9	10.5	1.5								clay balls	
10.5	12	1.5								GGS/Bedrock Contact 11.5m; Lorrain granit	
										Final Depth: 12m	
FINAL DEPTH		10.5									
NOTES:											
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen											
look for mixture of lithotypes											
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, GREEN RETURN WATER, observe "kim oil" [light chocolate colour in return water]											
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core											
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock											
occasionally reddish brown oxide return water above the Lorrain Granite											
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m											

REVERSE CIRCULATION DRILL LOG											
GEOL LOGGER:	P. Hubacheck		COMPANY: RJK Explorations				CLAIM #:	175091	STORAGE LOCATION: KIRKLAND LAKE		
RC HOLE ID:	PBD-RCH-02A		CONTRACTOR: SES				HOLE DIA:	3.5"			
START DRILLING HOLE:	3:45pm March 18, 2021		EASTING	NORTHING	ELEV		CASING:	NONE			
FINISH DRILLING HOLE:	4:50pm March 18, 2021		606718	5242384	344						
NO. OF PAILS SHIPPED:	4		AZIMUTH:	360/180	DIP:	-90					
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS	
0	1.5									HD rig deck to ground level	
1.5	3	1.5								At 2.8m sharp contact. Color change from tan to grayish green green.	
3	4.5	1.5									
4.5	6	1.5								1 clay balls, kim oil	
6	7.5	1.5					1			clay balls, kim oil	
7.5	9	1.5					1			clay balls, kim oil	
9	10.5	1.5					1			clay balls, kim oil	
10.5	12	1.5	1				1			clay balls, kim oil	
12	13.5	1.5					1			Bedrock Contact 12.75m; Lorrain granite Final Depth: 13.0m	
FINAL DEPTH		12									
NOTES:											
OVERBURDEN: look for orange brown return water; much greater amounts of material on screen											
look for mixture of lithotypes											
GLACIOFLUVIAL GREEN SANDY FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]											
generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core											
clay (kim) balls seem to be common deeper down near bedrock											
occasionally reddish brown oxide return water above the Lorrain Granite											
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m											
NO. OF BOULDER SIZE CLASTS GROUND IN EACH 1.5m RUN = 1, 2, 3, etc											

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	175091	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-02B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	3:45pm March 18, 2021	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	4:50pm March 18, 2021	606718	5242384	344			
NO. OF PAILS SHIPPED:	4	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								GGs at 1.5m sharp contact. Color change from tan to grayish green.
3	4.5	1.5								clay balls, kim oil
4.5	6	1.5								1 clay balls, kim oil
6	7.5	1.5					1			clay balls, kim oil
7.5	9	1.5					1			clay balls, kim oil
9	10.5	1.5					1			clay balls, kim oil
10.5	12	1.5	1				1			clay balls, kim oil
12	13	1					1			Bedrock Contact 12.75m; Lorrain granite
										Final Depth: 13.0m
FINAL DEPTH		11.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 clay (kim) balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m
 NO. OF BOULDER SIZE CLASTS GROUND IN EACH 1.5m RUN = 1, 2, 3, etc

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	175091	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-03A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	5:00pm March 18, 2021	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	6:15pm March 18, 2021	606724	5242413	344			
NO. OF PAILS SHIPPED:	3	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								At 0.0m sharp contact. Color change from tan to grayish green green.
3	4.5	1.5						1		1 clay balls, kim oil
4.5	6	1.5						1		1 clay balls, kim oil
6	7.5	1.5								clay balls, kim oil
7.5	9	1.5		1				2		clay balls, kim oil
9	10.5	1.5						1		clay balls, kim oil
10.5	12	1.5			1	1	1			clay balls, kim oil
12	13.5	1.5								Bedrock Contact 12.0m; Lorrain granite
13.5	15	1.5								Final Depth: 12.25m
FINAL DEPTH		13.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES: look for greenish tan colour, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts and ilmenite/chromite megacrysts seen in core
 clay (kim) balls seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m
 NO. OF BOULDER SIZE CLASTS GROUND IN EACH 1.5m RUN = 1, 2, 3, etc

REVERSE CIRCULATION DRILL LOG											
GEOL LOGGER:		P. Hubacheck		COMPANY: RJK Explorations				CLAIM #:		343852	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		PBD-RCH-04B		CONTRACTOR: SES				HOLE DIA:		3.5"	
START DRILLING HOLE:		10:15am March 19, 2021		EASTING	NORTHING	ELEV	CASING:		NONE		
FINISH DRILLING HOLE:		11:00am March 19, 2021		606786	5242405	345					
NO. OF PAILS SHIPPED:		2		AZIMUTH:	360/180	DIP:	-90				
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS	
0	1.5									HD rig deck to ground level	
1.5	3	1.5								black muskeg	
3	4.5	1.5								black muskeg mixed with sand,BRW	
4.5	6	1.5							1	sandy matrix GRW	
6	7.5	1.5								Bedrock Contact 6.5m; Lorrain granite	
										Final Depth: 7m	
FINAL DEPTH		6									
NOTES:											
OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen											
look for mixture of lithotypes											
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]											
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core											
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock											
occasionally reddish brown oxide return water above the Lorrain Granite											
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m											

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY: RJK Explorations			CLAIM #:	175091	STORAGE LOCATION: KIRKLAND LAKE		
RC HOLE ID:	PBD-RCH-05A	CONTRACTOR: SES			HOLE DIA:	3.5"			
START DRILLING HOLE:	11:00am March 19, 2021	EASTING	NORTHING	ELEV	CASING:	NONE			
FINISH DRILLING HOLE:	1:00pm March 19, 2021	606718	5242361	344					
NO. OF PAILS SHIPPED:	3	AZIMUTH:	360/180	DIP:	-90				

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5					1			1 GGS at 1.m sharp contact. Color change from tan to grayish green green.
3	4.5	1.5					1			1 kim oil.clay balls, sandy matrix
4.5	6	1.5	1							1 kim oil.clay balls, sandy matrix
6	7.5	1.5								clay balls, sandy matrix
7.5	9	1.5	2							clay balls, sandy matrix
9	10.5	1.5								1 Bedrock Contact 10m; Lorrain granite
10.5	11	0.5								Final Depth: 11m
FINAL DEPTH		9.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	343852	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-05B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	1:35pm March 19, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	4:15pm March 19, 2021	606750	5242272	344			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								pebbly sand, BRW
3	4.5	1.5								pebbly sand, BRW
4.5	6	1.5	1				1			2 GGS at 1.m sharp contact. Color change from tan to grayish green GRW
6	7.5	1.5	1				1			clay balls, sandy matrix. Kim oil
7.5	9	1.5								1 clay balls, sandy matrix. Kim oil
9	10.5	1.5								1 clay balls, sandy matrix. Kim oil
10.5	12	1.5					1			clay balls, sandy matrix. Kim oil
12	13.5	1.5					1			2 clay balls, sandy matrix. Kim oil
13.5	15	1.5								clay balls, sandy matrix. Kim oil
15	16.5	1.5					1			clay balls, sandy matrix. Kim oil
16.5	17.5	1	1							Bedrock Contact 17.5m; Lorrain granite
										Final Depth: 17.5m
FINAL DEPTH		16								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG										
GEOL LOGGER:		P. Hubacheck		COMPANY: RJK Explorations			CLAIM #:		126017	STORAGE LOCATION: KIRKLAND LAKE
RC HOLE ID:		PBD-RCH-06A		CONTRACTOR: SES			HOLE DIA:		3.5"	
START DRILLING HOLE:		8:15am March 20, 2021		EASTING	NORTHING	ELEV	CASING:		NONE	
FINISH DRILLING HOLE:		10:15am March 20, 2021		606761	5242241	345				
NO. OF PAILS SHIPPED:		4		AZIMUTH:	360/180	DIP:	-90			
FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								black muskeg. BRW
3	4.5	1.5								mixed. pebbly sand, BRW
4.5	6	1.5	1	1						1 GGS at 4.5m sharp contact. Color change from tan to grayish green GRW
6	7.5	1.5	1							clay balls, sandy matrix. GRW
7.5	9	1.5								clay balls, sandy matrix. GRW
9	10.5	1.5					3			clay balls, sandy matrix. Kim oil
10.5	12	1.5								clay balls, sandy matrix. GRW
12	13.5	1.5								2 clay balls, sandy matrix. GRW
13.5	15	1.5		1			1			clay balls, sandy matrix. Kim oil
15	15.5	0.5								Bedrock Contact 15.0m; Lorrain granite
										Final Depth: 15.5m
FINAL DEPTH		14								
NOTES:										
OVERBURDEN: look for orange brown return water; much greater amounts of material on screen										
look for mixture of lithotypes										
GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]										
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core										
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock										
occasionally reddish brown oxide return water above the Lorrain Granite										
EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m										

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	343852	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-06B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	10:30am March 21, 2021	EASTING	NORTHING	ELEV		CASING:	NONE
FINISH DRILLING HOLE:	12:00am March 21, 2021	606765	5242255	345			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5				1				GGS at 1.5m sharp contact. Color change from tan to grayish green GRW
3	4.5	1.5								clay balls, sandy matrix. GRW
4.5	6	1.5								clay balls, sandy matrix. GRW
6	7.5	1.5		1					1	clay balls, sandy matrix. GRW
7.5	9	1.5	1				1			clay balls, sandy matrix. Kim oil
9	10.5	1.5								clay balls, sandy matrix. GRW
10.5	12	1.5								clay balls, sandy matrix. GRW
12	13.5	1.5					1			clay balls, sandy matrix. Kim oil
13.5	15	1.5								clay balls, sandy matrix. Kim oil
15	16.5	1.5								Bedrock Contact 16.5m; Lorrain granite
16.5	16.75	0.25								Final Depth: 16.75m
FINAL DEPTH		15.25								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes
 GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite
 EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	343852	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-07A	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	12:30pm March 21, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	2:15am March 21, 2021	606776	5242284	345			
NO. OF PAILS SHIPPED:	4	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								black muskeg, BRW
3	4.5	1.5								black muskeg, BRW, mixed sand
4.5	6	1.5	1							GGS at 4.5m sharp contact. Color change from tan to grayish green GRW
6	7.5	1.5					1			clay balls, sandy matrix. Kim oil
7.5	9	1.5								clay balls, sandy matrix. Kim oil
9	10.5	1.5							1	clay balls, sandy matrix. Kim oil
10.5	12	1.5							1	clay balls, sandy matrix. Kim oil
12	13.5	1.5					1			clay balls, sandy matrix. Kim oil
13.5	15	1.5								Bedrock Contact 14.5m; Lorrain granite
										Final Depth: 15.00m
FINAL DEPTH		13.5								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen

look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]

generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core

clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock

occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	126017	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-07B	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	2:50pm March 21, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	4:30Pm March 21, 2021	606779	5242237	345			
NO. OF PAILS SHIPPED:	4	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, BRW
3	4.5	1.5								GGS at 3.0m sharp contact. Color change from tan to grayish green GRW
4.5	6	1.5	1							clay balls, sandy matrix. GRW
6	7.5	1.5	1							clay balls, sandy matrix. GRW
7.5	9	1.5					1			1 clay balls, sandy matrix. Kim oil
9	10.5	1.5					1			1 clay balls, sandy matrix. Kim oil
10.5	12	1.5								clay balls, sandy matrix. GRW
12	13.5	1.5								1 clay balls, sandy matrix. GRW
13.5	15	1.5	1	1			1			clay balls, sandy matrix. Kim oil
15	15.75	0.75								Bedrock Contact 15.5m; Lorrain granite
										Final Depth: 15.75m
FINAL DEPTH		14.25								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour in return water]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	175091	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-08	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	9:00am March 22, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	11:00am March 22, 2021	606703	5242311	342			
NO. OF PAILS SHIPPED:	5	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5								mixed sand, BRW
3	4.5	1.5								mixed orangy mud,sand, BRW
4.5	6	1.5	1	1			1			GGs at 4.5m sharp contact. Color change from tan to grayish green GRW
6	7.5	1.5								clay balls, sandy matrix. GRW
7.5	9	1.5	1							clay balls, sandy matrix. GRW
9	10.5	1.5					2			clay balls, sandy matrix. Kim oil
10.5	12	1.5		1					1	clay balls, sandy matrix. GRW
12	13.5	1.5					1			clay balls, sandy matrix. Kim oil
13.5	15	1.5	1				1			clay balls, sandy matrix. Kim oil
15	16.5	1.5					3			clay balls, sandy matrix. Kim oil
16.5	18	1.5					1			clay balls, sandy matrix. Kim oil
18	19.5	1.5	1			1	1		1	Bedrock Contact 19.25m; Lorrain granite
										Final Depth: 19.50m
FINAL DEPTH		18								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
 look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour, petrol odour with oil skim in return water]
 generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
 clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
 occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

REVERSE CIRCULATION DRILL LOG

GEOL LOGGER:	P. Hubacheck	COMPANY:	RJK Explorations	CLAIM #:	175091	STORAGE LOCATION:	KIRKLAND LAKE
RC HOLE ID:	PBD-RCH-10	CONTRACTOR:	SES	HOLE DIA:	3.5"		
START DRILLING HOLE:	10:30pam March 23, 2021	EASTING	NORTHING	ELEV	CASING:	NONE	
FINISH DRILLING HOLE:	11:30am March 23, 2021	606716	5242427	344			
NO. OF PAILS SHIPPED:	3	AZIMUTH:	360/180	DIP:	-90		

FROM	TO	INTERVAL	GRANITE	MAFIC VOLC	LORRAIN QUARTZITE	LORRAIN GRANITE	TAN CARB	PERIDOTITE	MAGNETIC BIF	PETROGRAPHIC COMMENTS
0	1.5									HD rig deck to ground level
1.5	3	1.5					1			GGS at 1.5m sharp contact. Color change from tan to grayish green GRW KO
3	4.5	1.5								clay balls, sandy matrix. Kim oil
4.5	6	1.5								clay balls, sandy matrix. Kim oil
6	7.5	1.5								clay balls, sandy matrix. Kim oil
7.5	9	1.5	1							clay balls, sandy matrix. Kim oil
9	10.5	1.5								clay balls, sandy matrix. Kim oil
10.5	10.75	0.25								Bedrock Contact 10.50m; Lorrain granite
										Final Depth: 10.75m
FINAL DEPTH		9.25								

NOTES:

OVERBURDEN: look for orangy brown return water; much greater amounts of material on screen
look for mixture of lithotypes

GLACIOFLUVIAL GREEN SANDY FACIES [GGS]: look for greenish tan colour, green return water, observe "kim oil" [light chocolate colour, petrol odour with oil skim in return water]
generally only a few lithotypes such as tan-coloured carbonate clasts, Lorrain quartzite, Lorrain granite, syenitic granite and BIF clasts seen in core
clay (kim) balls with green return water [GRW] seem to common deeper down near bedrock
occasionally reddish brown oxide return water above the Lorrain Granite

EACH PAIL HOLDS 2 DRILLING RUNS - EACH RUN = 1.5m

Appendix C: Analytical Certificates



ISO 9001:2015
ISO 17025:2005



C.F. MINERAL RESEARCH LIMITED

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DIAMOND COUNT AND DESCRIPTION of RJK Explorations' BeaverDamPP Sample

Source : Diamond Extraction (+16)
Status : BASE: BD27
Project : RJB1

File Name : DIA9734B
Samples : 1
Date : 17 June 2021

Caveats and explanations:

•

DIAMOND TOTAL COUNTNumber and Weight Distributions
(using CIM Guidelines)SAMPLE NAME **BEAVERDAMPP**PROJECT: **RJB1**SAMPLE WEIGHT: **864.1 KG**AWO **BD27**DATE : **17 June 2021**BWO **BD27**SIEVE TYPE : **Endecott**COMMENT : **+106 µm diamonds**

Sieve Size (mm square mesh)	Number of Diamonds	Weight of Diamonds (carats*)
> 9.50	0	
6.70 to 9.50	0	
4.75 to 6.70	0	
3.35 to 4.75	0	
2.36 to 3.35	0	
1.70 to 2.36	0	
1.18 to 1.70	0	
0.85 to 1.18	0	
0.600 to 0.85	0	
0.425 to 0.600	0	
0.300 to 0.425	0	
0.212 to 0.300	0	
0.150 to 0.212	0	
0.106 to 0.150	0	
Total		

* 1 carat = 200 mg



ISO 9001:2015
ISO 17025:2005



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DIAMOND COUNT AND DESCRIPTION of of RJK Explorations' HSMRC-CONC Sample

Source : Diamond Extraction
Status : BASE: BD37
Project : RJD1

File Name : DIA9747
Samples : 1
Date : 28 July 2021

Caveats and explanations:

•

DIAMOND TOTAL COUNTNumber and Weight Distributions
(using CIM Guidelines)SAMPLE NAME **HSMRC-CONC**PROJECT: **RJD1**SAMPLE WEIGHT: **40.88 kg**AWO **BD33**DATE : **28 July 2021**BWO **BD37**SIEVE TYPE : **Endecott**COMMENT : **+106 µm diamonds**

Sieve Size (mm square mesh)	Number of Diamonds	Weight of Diamonds (carats*)
> 9.50	0	
6.70 to 9.50	0	
4.75 to 6.70	0	
3.35 to 4.75	0	
2.36 to 3.35	0	
1.70 to 2.36	0	
1.18 to 1.70	0	
0.85 to 1.18	0	
0.600 to 0.85	0	
0.425 to 0.600	0	
0.300 to 0.425	0	
0.212 to 0.300	0	
0.150 to 0.212	0	
0.106 to 0.150	0	
Total		

* 1 carat = 200 mg

Sample Name : HSMRC-CONC
Batch : 21+9747
Sample weight : 40.88 kg
BWO : BD37

EXTRANEOUS DIAMONDS

Number of -106um Natural Diamonds = 0
Number of Synthetic Diamonds = 0

NATURAL DIAMONDS

Diamond Label	Weight (carats)	Sieve On (micron)	Sieve Through (micron)	Diamond Description

NO +106um DIAMONDS FOUND				



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: BD27
Project : RJK1

File Name : PRB9734A
Analyses: 133
Date : 12 May 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																	
				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
									°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
BEAVERDAMPP	-32+80HIL	7671	21	404		CR		U G	.05	.58	7.44	.12	50.05	7.73	28.96	.34	.00	2.02	.07	2.17						99.52
BEAVERDAMPP	-32+80HIL	7671	20	216		IL-Mn								.07	4.07	42.46	1.12	.02	1.34		.02	.02				100.16
BEAVERDAMPP	-32+80HPY	7671	10	504		OLV			40.42	.04	.01		.02		9.86	49.48	.01	.13	.37			.01		0.00	100.35	
BEAVERDAMPP	-32+80HPY	7671	10	702		OLV			40.09	.04	.03		.03		11.37	47.77	.12	.18	.38			.01		.01	100.02	
BEAVERDAMPP	-32+80HPY	7671	10	502		OLV-FORS			41.06	.01	0.00		.01		7.30	51.01	.00	.11	.37			0.00		0.00	99.86	
BEAVERDAMPP	-32+80HPY	7671	10	505		OLV-FORS			40.91	.03	.02		.07		7.34	51.19	.03	.11	.39			.01		.00	100.11	
BEAVERDAMPP	-32+80HPY	7671	10	603		OLV-FORS			41.44	.01	.00		.02		5.92	52.48	.01	.09	.36			0.00		.00	100.34	
BEAVERDAMPP	-32+80HPY	7671	10	606		OLV-FORS			40.91	.01	.00		.01		8.20	50.09	.03	.07	.38			.01		.00	99.72	
BEAVERDAMPP	-32+80HPY	7671	10	608		OLV-FORS			40.89	.02	.00		0.00		8.40	50.01	.01	.12	.33			0.00		.00	99.80	
BEAVERDAMPP	-32+80HPY	7671	10	612		OLV-FORS			40.50	0.00	.01		.01		7.38	51.54	.01	.11	.33			0.00		.01	99.88	
BEAVERDAMPP	-32+80HIL	7671	20	102		PIL				51.07	.21		.77	9.31	27.08	10.46	.01	.31			.04	.14			99.41	
BEAVERDAMPP	-32+80HIL	7671	20	206		PIL				54.18	.29		.44	6.11	25.77	12.81	.02	.29			0.00	.17			100.08	
BEAVERDAMPP	-32+80HIL	7671	20	210		PIL				47.84	.05		4.25	10.92	26.49	9.41	.01	.33			.02	.53			99.83	
BEAVERDAMPP	-32+80HIL	7671	20	315		PIL				45.66	.17		1.91	16.75	27.19	7.79	.01	.26			0.00	.26			100.00	
BEAVERDAMPP	-32+80HIL	7671	20	411		PIL				52.63	.62		1.24	7.78	24.74	12.51	.02	.25			.04	.01			99.85	
BEAVERDAMPP	-32+80HIL	7671	20	515		PIL				54.79	.19		1.26	4.44	26.51	12.58	.03	.35			.03	.06			100.23	
BEAVERDAMPP	-32+80HIL	7671	20	907		PIL				53.44	.31		.67	6.65	26.20	12.15	.02	.27			.02	.10			99.83	
BEAVERDAMPP	-32+80HIL	7671	21	313		PIL				52.12	.16		2.14	7.52	26.71	11.15	.02	.33			.04	.10			100.29	
BEAVERDAMPP	-32+80HIL	7671	20	301		CR	-	L K	.08	.46	9.32	.13	55.86	6.38	15.02	11.99	.00	.32	.19	.03					99.78	
BEAVERDAMPP	-32+80HIL	7671	20	309		CR	-	G K	.06	.32	9.38	.12	54.42	5.83	21.46	7.68	.00	.43	.05	.13					99.89	
BEAVERDAMPP	-32+80HIL	7671	20	311		CR	-	K L	.07	.34	12.22	.17	53.57	5.47	16.12	11.62	.00	.29	.04	.08					100.01	
BEAVERDAMPP	-32+80HIL	7671	20	316		CR	-	K L	.05	.38	12.99	.23	52.45	5.60	16.65	11.36	.00	.31	.10	.09					100.21	
BEAVERDAMPP	-32+80HIL	7671	20	317		CR	-	K K	.07	.39	9.34	.14	55.81	5.33	18.91	9.50	.00	.33	.04	.11					99.97	
BEAVERDAMPP	-32+80HIL	7671	20	511		CR	-	L L	.01	.68	15.13	.25	49.27	6.35	16.21	12.01	.01	.32	.11	.13					100.47	
BEAVERDAMPP	-32+80HIL	7671	20	513		CR	-	G G	.07	.28	11.00	.11	51.00	6.14	25.72	5.05	.01	.37	.15	.11					100.00	
BEAVERDAMPP	-32+80HIL	7671	20	602		CR	-	L L	.06	.37	12.94	.25	52.71	5.38	16.46	11.48	.00	.30	.06	.11					100.11	
BEAVERDAMPP	-32+80HIL	7671	20	607		CR	-	K L	.02	.72	14.73	.25	48.78	6.62	16.95	11.46	.00	.31	.12	.08					100.04	
BEAVERDAMPP	-32+80HIL	7671	20	608		CR	-	G L	.11	.26	12.70	.13	54.80	4.97	12.25	14.12	.01	.25	.18	.02					99.81	
BEAVERDAMPP	-32+80HIL	7671	20	611		CR	-	L L	.14	1.36	26.17	.16	35.82	7.49	12.28	16.21	0.00	.19	.23	.04					100.11	
BEAVERDAMPP	-32+80HIL	7671	20	617		CR	-	L L	.05	.45	16.76	.29	44.16	9.53	17.92	11.01	0.00	.33	.10	.06					100.67	
BEAVERDAMPP	-32+80HIL	7671	20	701		CR	-	K L	.05	.41	12.67	.26	51.91	5.84	18.03	10.42	0.00	.35	.05	.07					100.04	
BEAVERDAMPP	-32+80HIL	7671	20	715		CR	-	K L	.06	.46	23.64	.15	38.19	9.08	13.13	14.71	.00	.21	.20	.08					99.91	
BEAVERDAMPP	-32+80HIL	7671	20	717		CR	-	G U	.02	2.79	11.13	.35	40.57	13.61	23.37	8.01	.00	.38	.18	.19					100.59	
BEAVERDAMPP	-32+80HIL	7671	20	805		CR	-	G L	.12	.28	11.28	.13	53.13	6.10	19.73	9.19	.01	.31	.14	.09					100.52	
BEAVERDAMPP	-32+80HIL	7671	20	806		CR	-	G G	.01	.45	12.88	.28	48.18	6.15	25.75	4.77	0.00	.77	.05	.58					99.86	
BEAVERDAMPP	-32+80HIL	7671	20	809		CR	-	L L	.04	.52	12.50	.31	52.21	6.20	16.88	11.26	.01	.32	.08	.13					100.47	
BEAVERDAMPP	-32+80HIL	7671	20	812		CR	-	L L	.09	1.34	27.19	.18	35.03	7.29	12.69	16.03	.00	.23	.18	.05					100.29	
BEAVERDAMPP	-32+80HIL	7671	20	815		CR	-	L L	.01	.62	12.68	.36	51.40	6.48	18.08	10.56	.00	.31	.18	.06					100.75	
BEAVERDAMPP	-32+80HIL	7671	20	816		CR	-	K L	.03	.64	11.22	.35	50.76	8.03	19.38	9.54	.01	.37	.08	.08					100.50	
BEAVERDAMPP	-32+80HIL	7671	20	817		CR	-	G L	.00	1.03	12.60	.38	44.52	11.59	20.87	8.80	.00	.36	.13	.15					100.43	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification				Rock/Temp		Trace																	
				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	
									°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
BEAVERDAMPP	-32+80HIL	7671	20	901	CR	-	L L	1162+	.06	.66	12.42	.31	53.73	4.83	15.19	12.44	.01	.31	.08	.05					100.09		
BEAVERDAMPP	-32+80HIL	7671	20	904	CR	-	U U	767	.00	.34	13.71	.16	52.09	5.77	14.49	12.44	.01	.71	.05	.15					99.91		
BEAVERDAMPP	-32+80HIL	7671	20	911	CR	-	G G	785	.03	.29	9.14	.12	54.54	5.41	23.04	6.52	.00	.43	.10	.14					99.77		
BEAVERDAMPP	-32+80HIL	7671	20	912	CR	-	K L	886	.03	.45	14.35	.28	51.04	6.62	13.97	13.32	.00	.29	.13	.10					100.57		
BEAVERDAMPP	-32+80HIL	7671	20	913	CR	-	K L	813	.09	.51	10.02	.18	55.50	5.69	15.80	11.62	.00	.33	.12	.13					99.98		
BEAVERDAMPP	-32+80HIL	7671	20	914	CR	-	K K	986+	.12	.28	12.70	.16	54.77	4.78	14.18	12.99	.01	.28	.16	.08					100.51		
BEAVERDAMPP	-32+80HIL	7671	20	916	CR	-	K L	980+	.08	.31	13.61	.16	51.32	5.49	18.39	10.23	.00	.34	.10	.08					100.11		
BEAVERDAMPP	-32+80HIL	7671	21	103	CR	-	K L	1050+	.04	.44	12.08	.28	52.47	5.95	17.23	10.84	0.00	.31	.09	.07					99.79		
BEAVERDAMPP	-32+80HIL	7671	21	107	CR	-	G G		0.00	.32	10.66	.25	49.89	7.13	25.10	4.81	.01	.65	.02	.70					99.54		
BEAVERDAMPP	-32+80HIL	7671	21	108	CR	-	L L	1148+	.13	.22	11.37	.11	56.40	4.46	13.99	12.79	0.00	.43	.15	.06					100.10		
BEAVERDAMPP	-32+80HIL	7671	21	202	CR	-	U G	1011+	.05	1.08	13.74	.33	46.32	9.11	18.10	10.63	.00	.60	.18	.07					100.22		
BEAVERDAMPP	-32+80HIL	7671	21	207	CR	-	U L	711	.03	.90	17.26	.23	47.61	4.63	17.71	11.33	0.00	.34	.14	.18					100.34		
BEAVERDAMPP	-32+80HIL	7671	21	209	CR	-	G U	777	.04	1.72	7.56	.30	49.10	9.56	26.00	5.31	.01	.44	.11	.14					100.29		
BEAVERDAMPP	-32+80HIL	7671	21	304	CR	-	G G	801	.09	.28	11.51	.08	51.05	5.78	24.46	5.96	0.00	.33	.07	.13					99.74		
BEAVERDAMPP	-32+80HIL	7671	21	305	CR	-	G L	850	.09	.35	13.54	.21	49.94	6.84	18.26	10.29	.00	.34	.13	.11					100.12		
BEAVERDAMPP	-32+80HIL	7671	21	316	CR	-	L L	1233+	.08	.40	15.36	.24	50.22	6.48	13.01	14.06	0.00	.24	.15	.05					100.28		
BEAVERDAMPP	-32+80HIL	7671	21	401	CR	-	K L	1012+	.01	.48	15.13	.23	50.87	5.50	14.59	12.96	.00	.30	.11	.07					100.26		
BEAVERDAMPP	-32+80HIL	7671	21	403	CR	-	K L	948	.06	.62	14.04	.22	49.69	6.43	17.58	10.94	.01	.36	.10	.09					100.12		
BEAVERDAMPP	-32+80HIL	7671	21	409	CR	-	L L	1042+	.18	1.21	26.97	.16	36.13	6.83	10.92	17.04	.00	.21	.27	.07					99.98		
BEAVERDAMPP	-32+80HIL	7671	21	416	CR	-	G G	856	.05	.35	12.47	.22	49.94	6.19	24.46	6.15	.00	.41	.09	.11					100.45		
BEAVERDAMPP	-32+80HIL	7671	21	418	CR	-	L L	1352	.07	.31	14.95	.23	53.14	4.42	11.96	14.61	.00	.25	.17	.04					100.14		
BEAVERDAMPP	-32+80HIL	7671	21	506	CR	-	U G		.02	.74	7.72	.16	46.51	10.93	30.36	.46	.00	1.48	.06	1.18					99.64		
BEAVERDAMPP	-32+80HIL	7671	21	507	CR	-	L L	1164+	.14	1.21	27.31	.17	36.36	6.84	10.80	17.30	0.00	.20	.25	.05					100.63		
BEAVERDAMPP	-32+80HPY	7671	10	508	OLV-FORS	DI*			40.76	.01	0.00		.02	7.60	51.23	.01	.08	.38			0.00		0.00		100.09		
BEAVERDAMPP	-32+80HPY	7671	10	614	OLV-FORS	DI*			40.97	0.00	.01		.01	6.07	52.35	.01	.08	.38			.00		0.00		99.90		
BEAVERDAMPP	-32+80HPY	7671	11	108	CP	CP2	--	--	53.71	.30	.86		1.06	5.27	17.50	19.93	.14	.06			.47		0.00		99.31		
BEAVERDAMPP	-32+80HIL	7671	21	509	CP	CP2	--	--	53.85	.37	.88		.98	5.47	17.36	20.05	.14	.09			.51		.00		99.70		
BEAVERDAMPP	-32+80HIL	7671	21	510	CP	CP2	--	--	53.51	.32	.91		1.23	5.63	17.49	19.01	.14	.07			.49		.00		98.79		
BEAVERDAMPP	-32+80HIL	7671	21	511	CP	CP2	--	--	54.20	.26	.69		.88	6.05	18.06	18.57	.16	.07			.45		0.00		99.39		
BEAVERDAMPP	-32+80HIL	7671	21	513	CP	CP2	--	--	53.54	.31	.91		.98	5.59	17.38	19.42	.16	.06			.51		.00		98.86		
BEAVERDAMPP	-32+80HPY	7671	10	914	CP	CP5	--	--	54.88	.06	1.06		1.93	1.81	15.77	22.25	.05	.05			1.61		.00		99.49		
BEAVERDAMPP	-32+80HPY	7671	11	103	CP	CPX	--	--	53.33	.30	.74		.99	5.44	17.43	19.58	.12	.09			.49		0.00		98.51		
BEAVERDAMPP	-32+80HPY	7671	11	111	CP	CPX	--	--	53.36	.29	.82		1.05	5.26	17.15	20.03	.15	.05			.48		0.00		98.63		
BEAVERDAMPP	-32+80HPY	7671	11	114	CP	CPX	--	--	53.11	.36	1.29		.98	5.58	16.08	20.84	.15	.09			.56		0.00		99.03		
BEAVERDAMPP	-32+80HIL	7671	21	512	CP	CPX	--	--	53.31	.20	.96		.75	4.64	17.05	21.45	.11	.00			.22		0.00		98.70		
BEAVERDAMPP	-32+80HPY	7671	11	102	CP	CP2	--	Diam	53.59	.27	.82		1.02	5.45	18.05	18.86	.18	.06			.46		0.00		98.76		
BEAVERDAMPP	-32+80HPY	7671	11	405	CP	CP2	--	Diam-	53.58	.31	.93		1.16	5.85	17.78	18.91	.17	.08			.49		0.00		99.27		
BEAVERDAMPP	-32+80HPY	7671	10	907	CP	CP5	--	Diam-	54.35	.36	2.53		2.37	3.01	15.78	18.70	.09	.03			2.55		.01		99.78		
BEAVERDAMPP	-32+80HPY	7671	10	909	CP	CP5	--	Gr	54.69	.02	2.30		1.99	1.45	15.66	21.58	.06	.03			1.76		.00		99.54		
BEAVERDAMPP	-32+80HPY	7671	10	908	CP	CP5	G2	--	54.52	.09	.56		2.59	2.27	15.26	21.93	.08	.03			1.78		.00		99.11		

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																		
				Grain	SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
BEAVERDAMPP	-32+80HPY	7671	10	114	E	G 9	LPM			41.36	.06	23.17		1.37		11.41	17.31	5.20	.60	.01					.014	0.00	100.48
BEAVERDAMPP	-32+80HPY	7671	10	209	E	G 9	LPM			41.95	.03	23.13		2.00		8.43	19.97	4.63	.43	0.00				.025	.00	100.58	
BEAVERDAMPP	-32+80HPY	7671	10	107	P	G 3				41.22	.04	22.03		2.54		12.44	17.11	5.02	.40	.04			.01		.00	100.85	
BEAVERDAMPP	-32+80HPY	7671	10	106	P	G 9				41.54	.06	21.26		3.93		7.77	19.37	5.39	.48	.02			.02		0.00	99.83	
BEAVERDAMPP	-32+80HPY	7671	10	113	P	G 9				41.71	.00	20.99		4.33		6.62	20.17	5.81	.47	.02			.01		0.00	100.10	
BEAVERDAMPP	-32+80HPY	7671	10	206	P	G 9				41.30	.06	20.74		4.23		7.73	18.99	5.55	.43	0.00			.01		.00	99.03	
BEAVERDAMPP	-32+80HPY	7671	10	210	P	G 9				42.16	0.00	22.12		3.10		7.08	19.84	5.56	.46	.00			.02		0.00	100.34	
BEAVERDAMPP	-32+80HPY	7671	10	304	P	G 9				41.69	.07	20.67		4.52		7.54	19.20	6.01	.53	0.00			.02		0.00	100.23	
BEAVERDAMPP	-32+80HPY	7671	10	314	P	G 9				42.06	.10	22.14		3.00		7.89	19.87	5.26	.47	.02			.04		0.00	100.85	
BEAVERDAMPP	-32+80HPY	7671	10	315	P	G 9				41.68	.08	21.66		3.79		7.68	19.27	5.52	.48	0.00			.01		.00	100.17	
BEAVERDAMPP	-32+80HPY	7671	10	316	P	G 9				42.12	.04	21.64		3.59		7.52	20.14	5.37	.45	.00			.01		.00	100.88	
BEAVERDAMPP	-32+80HPY	7671	10	318	P	G 9				41.89	.69	21.30		2.26		7.30	20.69	5.08	.26	.04			.05		.00	99.56	
BEAVERDAMPP	-32+80HPY	7671	10	102	P	G 9-1				41.77	.05	22.44		2.46		9.01	19.54	4.91	.39	0.00			.03		.00	100.59	
BEAVERDAMPP	-32+80HPY	7671	10	103	P	G 9-1				42.05	.01	21.76		3.38		7.75	20.24	4.78	.48	.00			.01		0.00	100.46	
BEAVERDAMPP	-32+80HPY	7671	10	105	P	G 9-1				42.37	.64	21.01		3.62		6.26	21.43	4.95	.27	.01			.07		0.00	100.64	
BEAVERDAMPP	-32+80HPY	7671	10	202	P	G 9-1				41.84	.03	21.20		4.46		7.57	19.47	5.50	.44	.01			.03		0.00	100.55	
BEAVERDAMPP	-32+80HPY	7671	10	204	P	G 9-1				42.01	.04	21.87		3.44		8.01	19.96	4.83	.53	.01			.03		.02	100.75	
BEAVERDAMPP	-32+80HPY	7671	10	212	P	G 9-1				41.86	.27	21.49		3.14		8.01	19.90	4.88	.38	.05			.05		0.00	100.04	
BEAVERDAMPP	-32+80HPY	7671	10	214	P	G 9-1				42.11	.13	21.45		3.83		7.22	20.23	5.23	.32	.00			.00		.01	100.53	
BEAVERDAMPP	-32+80HPY	7671	10	302	P	G 9-1				41.67	.01	21.69		3.63		7.18	19.88	5.06	.38	0.00			.02		0.00	99.53	
BEAVERDAMPP	-32+80HPY	7671	10	308	P	G 9-1				42.22	.01	21.69		3.79		6.96	20.44	5.26	.37	.01			.01		.00	100.76	
BEAVERDAMPP	-32+80HPY	7671	10	401	P	G 9-1				41.68	.05	20.94		4.49		7.95	19.38	5.05	.48	.01			.03		0.00	100.06	
BEAVERDAMPP	-32+80HPY	7671	10	201	P	G10-4				42.27	.02	22.70		2.66		7.59	21.68	2.62	.47	.02			.02		.01	100.06	
BEAVERDAMPP	-32+80HPY	7671	10	213	P	G10-4				42.76	.01	21.99		3.59		7.11	22.82	2.07	.44	.00			.01		0.00	100.79	
BEAVERDAMPP	-32+80HPY	7671	10	101	P	G11				41.32	.14	18.99		6.59		7.46	18.40	6.71	.43	.03			.02		.01	100.11	
BEAVERDAMPP	-32+80HPY	7671	10	104	P	G11				41.60	.10	20.23		5.27		7.83	19.22	5.89	.53	.01			.04		.00	100.72	
BEAVERDAMPP	-32+80HPY	7671	10	108	P	G11				41.96	.05	20.66		4.89		7.37	19.57	5.68	.43	.01			.03		.00	100.65	
BEAVERDAMPP	-32+80HPY	7671	10	109	P	G11				41.71	.08	20.56		4.94		7.44	18.68	6.07	.51	0.00			.03		0.00	100.02	
BEAVERDAMPP	-32+80HPY	7671	10	110	P	G11				41.39	.34	19.79		5.08		7.84	18.58	6.08	.41	.00			.04		.00	99.56	
BEAVERDAMPP	-32+80HPY	7671	10	115	P	G11				40.91	.05	20.09		5.06		9.80	17.10	6.33	.60	.00			.02		0.00	99.96	
BEAVERDAMPP	-32+80HPY	7671	10	203	P	G11				41.51	.07	19.65		5.93		7.07	19.07	6.10	.45	.00			.03		.00	99.90	
BEAVERDAMPP	-32+80HPY	7671	10	207	P	G11				41.47	.01	19.71		5.81		7.57	18.73	6.10	.46	.01			0.00		.00	99.88	
BEAVERDAMPP	-32+80HPY	7671	10	208	P	G11				41.92	0.00	21.03		4.71		6.85	19.55	5.66	.47	0.00			0.00		.00	100.20	
BEAVERDAMPP	-32+80HPY	7671	10	216	P	G11				41.68	.20	18.91		6.18		6.58	19.55	6.59	.30	.01			.02		.01	100.01	
BEAVERDAMPP	-32+80HPY	7671	10	217	P	G11				41.63	.53	19.87		4.64		7.38	19.83	5.92	.28	.01			.03		.00	100.12	
BEAVERDAMPP	-32+80HPY	7671	10	218	P	G11				41.45	.07	19.67		5.81		7.43	18.91	6.14	.43	.00			.04		.00	99.95	
BEAVERDAMPP	-32+80HPY	7671	10	305	P	G11				41.69	.07	20.73		4.67		7.57	19.44	5.87	.46	.02			.05		.00	100.57	
BEAVERDAMPP	-32+80HPY	7671	10	306	P	G11				41.66	.59	19.74		4.58		7.38	19.56	5.99	.26	0.00			.05		.01	99.80	
BEAVERDAMPP	-32+80HPY	7671	10	309	P	G11				40.81	.03	20.46		4.83		10.96	16.71	5.69	.64	.01			.05		.01	100.19	
BEAVERDAMPP	-32+80HPY	7671	10	310	P	G11				41.84	.06	20.61		4.59		7.31	19.63	5.91	.49	0.00			.02		.01	100.47	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %
					SA	CFM	DI	M	C																	
BEAVERDAMPP	-32+80HPY	7671	10	311	P	G11			41.13	.12	20.55		4.77		7.52	18.73	5.87	.48	.02				.04		.00	99.24
BEAVERDAMPP	-32+80HPY	7671	10	312	P	G11			41.19	.48	18.71		6.03		8.68	18.40	6.03	.41	.01				.04		0.00	99.99
BEAVERDAMPP	-32+80HPY	7671	10	111	P	G11-1			41.70	0.00	21.01		4.59		7.55	19.53	5.20	.49	0.00				.00		0.00	100.07
BEAVERDAMPP	-32+80HPY	7671	10	112	P	G11-1			41.65	.50	19.02		6.19		6.41	20.38	5.76	.31	.01				.07		.00	100.31
BEAVERDAMPP	-32+80HPY	7671	10	205	P	G11-1			41.64	.39	19.96		4.81		7.95	19.27	5.55	.39	0.00				.05		.00	100.01
BEAVERDAMPP	-32+80HPY	7671	10	211	P	G11-1			41.49	.43	18.94		6.14		7.60	19.51	5.98	.41	.03				.05		0.00	100.58
BEAVERDAMPP	-32+80HPY	7671	10	301	P	G11-1			41.90	.20	20.44		4.60		7.83	20.11	5.50	.38	.00				.03		0.00	100.99
BEAVERDAMPP	-32+80HPY	7671	10	303	P	G11-1			41.73	.35	18.71		6.83		6.07	20.73	5.54	.31	0.00				.05		.00	100.32
BEAVERDAMPP	-32+80HPY	7671	10	313	P	G11-1			41.44	.20	19.64		5.93		6.97	19.50	5.73	.37	.01				.04		0.00	99.83
BEAVERDAMPP	-32+80HPY	7671	10	317	P	G11-1			41.71	.39	20.35		4.59		7.77	19.97	5.36	.35	0.00				.02		.01	100.53
BEAVERDAMPP	-32+80HPY	7671	10	319	P	G11-1			42.05	.30	19.85		5.16		6.68	20.53	5.50	.33	.03				.01		.00	100.46
BEAVERDAMPP	-32+80HPY	7671	10	215	P	GT			40.41	.15	19.67		4.98		11.94	14.99	7.21	.65	.01				.02		0.00	100.03
BEAVERDAMPP	-32+80HPY	7671	10	307	P	G11-1	DI		42.33	.03	20.03		5.71		5.89	21.25	4.99	.32	.02				.01		0.00	100.58



ISO 9001:2015
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DIAMOND INDICATOR ANALYSES AND CLASSIFICATIONS of RJK Explorations' BeaverDamPP sample

Source : EPMA (+16)
Status : BASE : BD27
Project : RJB1

File Name : PRB9734B
Analyses: 110
Date : 11 June 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																		
				Grain	SA	CFM	DI	M C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	612		CR		G G	661	.01	1.04	13.83	.36	37.32	12.86	32.56	.37	.02	1.69	.09	.22						100.39
BEAVERDAMPP	-32+80HPY (+16)	7680	11	510		OLV				40.93	.01	.00		.01		10.43	48.36	.03	.15	.19			.00		.00	100.13	
BEAVERDAMPP	-32+80HIL (+16)	7680	11	606		OLV				38.69	.02	.02		.02		20.16	39.91	.18	.37	.15			.00		.01	99.54	
BEAVERDAMPP	-32+80HIL (+16)	7680	11	607		OLV				39.14	0.00	.03		0.00		18.12	41.45	.15	.29	.29			0.00		0.00	99.47	
BEAVERDAMPP	-32+80HPY (+16)	7680	11	511		OLV-FORS				41.41	.01	.03		.06		8.43	49.71	.08	.12	.40			0.00		.00	100.25	
BEAVERDAMPP	-32+80HPY (+16)	7680	11	509		OPX				55.01	.11	1.77		.64		9.56	30.28	2.38	.20	.10			.05		.01	100.10	
BEAVERDAMPP	-32+80HIL (+16)	7680	11	615		PIL					52.28	.34		.91	8.40	25.98	11.71	.03	.26			.03	.15			100.10	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	101		PIL					50.79	.21		.67	10.75	26.65	10.57	0.00	.31			.02	.13			100.08	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	103		PIL					51.07	.55		3.22	7.99	23.76	12.30	.02	.24			.06	.05			99.26	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	201		PIL					49.54	.20		2.37	10.28	25.51	10.56	.00	.28			.07	.13			98.95	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	205		PIL					52.11	.38		.78	8.63	25.94	11.68	.02	.27			0.00	.17			99.97	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	207		PIL					46.09	.49		6.42	12.23	23.77	9.80	.00	.22			.01	.03			99.06	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	211		PIL					51.10	.26		1.30	9.11	26.47	10.80	.01	.31			.04	.12			99.52	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	216		PIL					51.62	.23		1.29	8.89	26.03	11.25	.01	.31			.04	.01			99.67	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	217		PIL					44.56	.11		4.47	15.63	25.64	8.15	.01	.33			.00	.40			99.31	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	305		PIL					52.77	.13		.83	7.37	25.65	12.08	.02	.36			0.00	.10			99.31	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	309		PIL					50.32	.20		.67	10.39	27.46	9.90	.00	.33			0.00	.16			99.43	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	413		PIL					50.88	.20		.83	9.81	26.95	10.42	.00	.30			.06	.11			99.56	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	414		PIL					51.15	.23		1.30	8.79	26.19	10.98	.01	.28			.02	.07			99.03	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	501		PIL					51.33	.23		.79	9.52	27.05	10.62	.01	.31			0.00	.14			100.00	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	503		PIL					50.53	.24		1.04	9.82	26.67	10.40	.00	.31			0.00	.08			99.10	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	509		PIL					49.61	.09		1.58	10.98	26.81	9.95	.00	.36			.02	.29			99.68	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	510		PIL					50.55	.22		.75	10.51	27.53	9.98	.01	.29			.02	.17			100.02	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	516		PIL					50.51	.19		.47	10.40	27.75	9.86	.01	.29			.02	.21			99.70	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	601		PIL					50.10	.20		.71	10.63	27.15	9.96	.01	.30			.04	.18			99.27	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	605		PIL					45.32	.14		2.74	16.32	26.81	7.74	0.00	.34			.01	.19			99.61	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	611		PIL					49.95	.15		1.56	10.68	26.80	10.08	0.00	.33			.00	.16			99.71	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	613		PIL					52.28	.39		.82	8.07	25.53	11.95	.02	.25			.07	.14			99.53	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	708		PIL					50.36	.24		2.94	9.02	25.43	11.06	.01	.27			0.00	.13			99.48	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	904		PIL					51.99	.52		.94	8.74	25.16	11.99	.02	.24			.04	.08			99.73	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	906		PIL					51.20	.22		.99	9.27	26.82	10.65	.02	.31			0.00	.08			99.57	
BEAVERDAMPP	-32+80HIL (+16)	7680	11	608		CR	-	L L	807	0.00	.15	11.97	.23	55.69	5.18	13.40	13.22	.00	.31	.07	.13					100.36	
BEAVERDAMPP	-32+80HIL (+16)	7680	11	613		CR	-	L L	1239+	.11	.31	11.64	.14	52.87	6.51	16.64	11.16	.01	.29	.14	.05					99.87	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	102		CR	-	G G	742	.07	.28	11.05	.16	50.33	6.40	26.62	4.48	.00	.36	.11	.16					100.03	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	106		CR	-	L K	830	0.00	.35	13.28	.18	54.78	3.78	12.90	13.60	0.00	.30	.11	.12					99.39	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	109		CR	-	K K	979+	.07	.43	9.27	.20	55.44	6.08	16.31	11.04	.00	.33	.12	.08					99.38	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	110		CR	-	G G	845	.12	.31	11.74	.13	50.32	5.71	25.94	5.04	.01	.36	.14	.11					99.93	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	202		CR	-	U G		.06	.23	7.56	.12	52.09	6.26	28.56	.52	.00	1.85	.05	2.21					99.51	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	213		CR	-	L L		.05	.49	10.03	.19	55.74	6.23	13.93	12.85	.00	.28	.18	.03					100.00	
BEAVERDAMPP	-32+80HIL (+16)	7680	20	304		CR	-	L L	1227+	.09	.37	14.61	.20	49.10	6.32	18.90	10.06	.00	.34	.11	.05					100.14	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp															Trace				
				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
									°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
BEAVERDAMPP	-32+80HIL (+16)	7680	20	506		CR	-	U G		.04	.37	6.48	.10	52.54	6.90	29.33	.46	.01	1.52	.14	1.67					99.55
BEAVERDAMPP	-32+80HIL (+16)	7680	20	511		CR	-	G G	867	.12	.27	11.16	.12	51.03	5.36	26.78	4.44	.00	.34	.10	.11					99.84
BEAVERDAMPP	-32+80HIL (+16)	7680	20	513		CR	-	K K	900	.06	.36	9.38	.12	56.19	6.79	13.11	13.17	.01	.28	.11	.10					99.67
BEAVERDAMPP	-32+80HIL (+16)	7680	20	609		CR	-	K K	981+	.02	.67	10.07	.38	57.06	4.51	13.78	13.06	0.00	.31	.10	.08					100.05
BEAVERDAMPP	-32+80HIL (+16)	7680	20	806		CR	-	U G		.05	.35	11.31	.22	47.37	6.49	29.95	.48	.00	1.65	.06	1.82					99.78
BEAVERDAMPP	-32+80HIL (+16)	7680	21	104		CR	-	L L	804	.00	.04	14.61	.21	51.34	5.83	15.07	12.21	.01	.31	.09	.13					99.84
BEAVERDAMPP	-32+80HIL (+16)	7680	11	605		OP5	-			55.81	.09	1.50		.78	7.91	31.55	1.92	.18	.10			.03		.00		99.87
BEAVERDAMPP	-32+80HIL (+16)	7680	20	702		CR06	DI	G K	753	0.00	.41	2.69	.16	64.47	5.14	15.82	10.71	.00	.39	.06	.15					100.02
BEAVERDAMPP	-32+80HPY (+16)	7680	20	401	CE	CP2	-			53.42	.22	.88		.49	5.60	17.24	20.53	.13	.05			.23		.00		98.80
BEAVERDAMPP	-32+80HPY (+16)	7680	10	511	CE	CP4	-			53.46	.05	1.30		.29	4.82	14.35	23.93	.15	0.00			.75		0.00		99.11
BEAVERDAMPP	-32+80HPY (+16)	7680	11	205	CE	CP4	-			53.64	.04	1.10		.18	4.60	14.57	23.93	.16	.05			.71		0.00		98.99
BEAVERDAMPP	-32+80HPY (+16)	7680	10	503	CP	CP2	-	--		53.77	.29	.99		.76	5.75	17.18	20.42	.16	.06			.46		0.00		99.84
BEAVERDAMPP	-32+80HPY (+16)	7680	10	608	CP	CPX	-	--		53.40	.23	1.14		.85	5.41	16.90	20.94	.12	.05			.27		.00		99.31
BEAVERDAMPP	-32+80HIL (+16)	7680	20	411	CP	CPX	-	--		53.09	.33	1.25		1.18	5.07	16.49	20.55	.13	.06			.53		.01		98.68
BEAVERDAMPP	-32+80HPY (+16)	7680	10	904	CP	CP2	-	Gr		53.55	.34	1.20		.80	5.15	17.28	20.35	.12	.08			.41		.00		99.28
BEAVERDAMPP	-32+80HPY (+16)	7680	10	807	CP	CP6	-	Gr		53.46	.13	1.70		.53	4.07	16.51	22.12	.13	.07			.45		0.00		99.16
BEAVERDAMPP	-32+80HPY (+16)	7680	10	402	CP	CPX	-	Gr		52.49	.18	2.61		1.00	6.77	18.66	16.83	.19	.06			.27		.00		99.06
BEAVERDAMPP	-32+80HPY (+16)	7680	10	403	CP	CPX	-	Gr		52.14	.16	2.74		.80	4.66	16.72	22.18	.15	.04			.28		0.00		99.86
BEAVERDAMPP	-32+80HPY (+16)	7680	10	502	CP	CPX	-	Gr		51.70	.25	3.32		1.25	5.61	16.96	19.07	.14	.05			.29		.00		98.64
BEAVERDAMPP	-32+80HPY (+16)	7680	10	510	CP	CPX	-	Gr		53.25	.35	1.47		1.30	5.55	17.42	19.78	.14	.04			.63		.00		99.91
BEAVERDAMPP	-32+80HPY (+16)	7680	10	605	CP	CPX	-	Gr		52.88	.29	1.43		1.13	5.73	17.38	19.37	.14	.07			.45		.00		98.87
BEAVERDAMPP	-32+80HPY (+16)	7680	10	613	CP	CPX	-	Gr		53.20	.33	1.37		.92	5.50	17.16	19.52	.13	.08			.43		.01		98.64
BEAVERDAMPP	-32+80HPY (+16)	7680	10	806	CP	CPX	-	Gr		52.67	.35	2.10		.50	5.19	16.21	21.99	.15	.02			.25		0.00		99.42
BEAVERDAMPP	-32+80HPY (+16)	7680	10	810	CP	CPX	-	Gr		51.38	.35	3.64		.82	6.46	16.64	19.00	.16	.06			.28		0.00		98.78
BEAVERDAMPP	-32+80HPY (+16)	7680	11	406	CP	CPX	-	Gr		52.76	.19	2.69		.97	6.25	18.50	17.93	.16	.05			.27		.00		99.76
BEAVERDAMPP	-32+80HPY (+16)	7680	10	111	E	G 9		HPM*		42.02	.27	22.65		1.83	7.69	20.24	4.58	.36	0.00			.051		.00		99.69
BEAVERDAMPP	-32+80HPY (+16)	7680	10	107	P	G 9				41.39	.00	21.80		3.29	8.46	18.64	5.43	.47	.01			.01		.00		99.51
BEAVERDAMPP	-32+80HPY (+16)	7680	10	202	P	G 9				42.00	.45	21.50		2.54	7.38	20.10	5.11	.28	0.00			.04		0.00		99.39
BEAVERDAMPP	-32+80HPY (+16)	7680	10	104	P	G 9-1				41.72	.04	21.25		4.08	7.49	19.15	5.20	.46	0.00			.01		0.00		99.41
BEAVERDAMPP	-32+80HPY (+16)	7680	10	109	P	G 9-1				41.60	.30	20.76		4.06	7.72	19.42	5.20	.35	.01			.02		0.00		99.44
BEAVERDAMPP	-32+80HPY (+16)	7680	10	115	P	G 9-1				42.05	.08	20.82		4.27	7.67	19.94	5.25	.44	0.00			.02		0.00		100.54
BEAVERDAMPP	-32+80HPY (+16)	7680	10	117	P	G 9-1				42.15	.14	21.40		3.79	7.17	19.91	4.91	.37	.01			.03		.00		99.87
BEAVERDAMPP	-32+80HPY (+16)	7680	10	201	P	G 9-1				41.70	.07	20.92		4.18	7.65	19.36	5.08	.46	.03			.02		.00		99.46
BEAVERDAMPP	-32+80HPY (+16)	7680	10	205	P	G 9-1				41.87	.08	21.04		4.13	7.70	19.59	5.05	.45	.03			.03		0.00		99.96
BEAVERDAMPP	-32+80HPY (+16)	7680	10	206	P	G 9-1				41.99	.21	20.49		4.42	7.17	19.76	5.40	.39	0.00			.05		.01		99.88
BEAVERDAMPP	-32+80HPY (+16)	7680	10	208	P	G 9-1				41.96	.15	20.73		4.00	6.95	20.20	5.29	.27	.02			.02		.01		99.59
BEAVERDAMPP	-32+80HPY (+16)	7680	10	304	P	G 9-1				42.14	.22	22.35		2.27	8.11	20.04	4.49	.42	0.00			.04		.00		100.07
BEAVERDAMPP	-32+80HPY (+16)	7680	10	305	P	G 9-1				42.10	.10	21.00		4.10	7.69	19.68	5.14	.47	.01			.02		.01		100.31
BEAVERDAMPP	-32+80HPY (+16)	7680	20	313	P	G 9-1				41.91	.30	22.25		2.31	8.90	19.88	3.82	.44	.01			.04		.00		99.87
BEAVERDAMPP	-32+80HIL (+16)	7680	20	403	P	G 9-1				41.96	.14	21.59		3.43	7.85	20.08	5.09	.34	.01			.01		0.00		100.52

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
BEAVERDAMPP	-32+80HPY (+16)	7680	10	301	P	G10-2			41.57	.02	20.08		5.46		7.11	20.03	4.35	.44	.02			.02		0.00	99.11
BEAVERDAMPP	-32+80HPY (+16)	7680	10	105	P	G10-4			42.63	.01	21.24		4.66		6.63	22.40	2.51	.43	0.00			.02		0.00	100.51
BEAVERDAMPP	-32+80HPY (+16)	7680	10	302	P	G10-5*			41.33	.02	16.67		9.89		7.15	20.46	4.07	.45	.02			.03		0.00	100.09
BEAVERDAMPP	-32+80HPY (+16)	7680	10	114	P	G11			41.65	.19	19.31		6.01		7.04	19.74	6.05	.38	0.00			.01		.00	100.38
BEAVERDAMPP	-32+80HPY (+16)	7680	10	207	P	G11			41.49	.17	19.63		5.54		6.96	19.16	5.85	.40	0.00			.01		0.00	99.20
BEAVERDAMPP	-32+80HPY (+16)	7680	10	209	P	G11			40.96	.19	19.30		5.89		7.06	18.97	5.98	.37	0.00			.01		0.00	98.72
BEAVERDAMPP	-32+80HPY (+16)	7680	10	210	P	G11			41.47	.19	19.40		5.85		6.94	19.27	5.98	.36	.01			.02		0.00	99.48
BEAVERDAMPP	-32+80HPY (+16)	7680	10	211	P	G11			41.87	.19	19.36		6.12		6.95	19.51	6.01	.36	0.00			.03		0.00	100.40
BEAVERDAMPP	-32+80HPY (+16)	7680	10	215	P	G11			40.73	.60	16.64		8.19		7.30	18.32	7.05	.35	0.00			.04		.01	99.23
BEAVERDAMPP	-32+80HIL (+16)	7680	11	601	P	G11			41.21	.07	18.69		6.68		7.49	18.48	6.99	.33	.01			.01		0.00	99.95
BEAVERDAMPP	-32+80HPY (+16)	7680	20	310	P	G11			41.20	.19	19.22		5.84		7.10	18.87	5.95	.36	.01			.00		.00	98.75
BEAVERDAMPP	-32+80HPY (+16)	7680	20	311	P	G11			41.39	.21	18.38		6.81		6.59	19.35	6.24	.33	0.00			.02		.00	99.31
BEAVERDAMPP	-32+80HPY (+16)	7680	10	101	P	G11-1			41.41	.17	20.35		4.70		7.29	19.58	5.38	.38	.01			.02		0.00	99.29
BEAVERDAMPP	-32+80HPY (+16)	7680	10	102	P	G11-1			41.49	.37	20.02		5.02		6.57	20.18	5.32	.33	.03			.04		.00	99.37
BEAVERDAMPP	-32+80HPY (+16)	7680	10	103	P	G11-1			41.81	.03	20.77		4.75		7.21	19.96	5.47	.39	0.00			.03		0.00	100.42
BEAVERDAMPP	-32+80HPY (+16)	7680	10	106	P	G11-1			41.67	.53	20.30		4.80		7.02	19.64	5.47	.35	0.00			.05		.00	99.84
BEAVERDAMPP	-32+80HPY (+16)	7680	10	108	P	G11-1			41.78	.26	20.22		4.88		6.42	20.21	5.44	.31	0.00			.04		.01	99.57
BEAVERDAMPP	-32+80HPY (+16)	7680	10	110	P	G11-1			41.16	.20	19.26		5.94		7.24	19.22	5.88	.39	.01			.03		.00	99.34
BEAVERDAMPP	-32+80HPY (+16)	7680	10	112	P	G11-1			41.87	.14	19.31		6.20		6.90	19.84	5.74	.36	.00			.02		.00	100.39
BEAVERDAMPP	-32+80HPY (+16)	7680	10	113	P	G11-1			41.95	.03	20.69		4.63		6.91	19.49	5.42	.44	.02			0.00		0.00	99.58
BEAVERDAMPP	-32+80HPY (+16)	7680	10	116	P	G11-1			41.57	.15	20.43		4.82		7.16	19.44	5.37	.45	.00			.04		.01	99.45
BEAVERDAMPP	-32+80HPY (+16)	7680	10	203	P	G11-1			41.48	.06	19.20		6.60		6.37	19.63	5.70	.40	.04			.00		.01	99.49
BEAVERDAMPP	-32+80HPY (+16)	7680	10	204	P	G11-1			41.46	.15	19.32		6.18		7.03	19.00	5.98	.41	.03			.04		0.00	99.60
BEAVERDAMPP	-32+80HPY (+16)	7680	10	212	P	G11-1			41.79	.13	20.60		4.64		7.57	19.80	5.55	.40	.02			.04		.00	100.54
BEAVERDAMPP	-32+80HPY (+16)	7680	10	213	P	G11-1			41.45	.26	19.68		5.59		7.32	19.28	5.56	.39	.02			.04		.00	99.58
BEAVERDAMPP	-32+80HPY (+16)	7680	10	214	P	G11-1			41.14	.30	19.20		5.67		7.19	19.08	5.76	.35	.00			.04		0.00	98.73
BEAVERDAMPP	-32+80HPY (+16)	7680	10	303	P	G11-1			41.84	.14	19.31		5.69		6.20	19.88	5.73	.27	0.00			0.00		.00	99.06
BEAVERDAMPP	-32+80HPY (+16)	7680	10	306	P	G11-1			41.54	.59	19.80		4.92		7.23	19.52	5.39	.39	.03			.07		0.00	99.48
BEAVERDAMPP	-32+80HPY (+16)	7680	20	312	P	G11-1			41.22	.23	19.49		5.53		7.50	18.96	5.71	.42	.02			.04		0.00	99.12
BEAVERDAMPP	-32+80HIL (+16)	7680	20	404	P	G11-1			41.38	.33	19.61		5.05		8.88	18.51	5.27	.46	.02			.05		0.00	99.56



ISO 9001:2015
ISO 17025:2005



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Diamond Indicator **ANALYSES** and **CLASSIFICATIONS** for 1 RJK Explorations sample

Source : EPMA
Status : BASE: BD28
Project : RJC1

Sample:
RCH-01A+01B

File Name : PRB9742F
Analyses: 258
Date : 13 October 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Major Elements											Trace					
				Grain	SA	CFM	DI	M C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %
RCH-01A+01B	-32+80HIL	7683	40	812	CR	-	L L	1160+	.12	1.49	30.77	.17	27.89	10.03	13.32	16.07	.01	.22	.18	.05					100.33
RCH-01A+01B	-32+80HIL	7683	40	919	CR	-	L L		.14	.28	12.59	.14	55.73	4.98	9.92	15.68	.01	.25	.21	.03					99.95
RCH-01A+01B	-32+80HIL	7718	40	304	CR	-	K L	936	.07	.37	12.89	.15	54.77	3.67	15.65	11.99	.00	.34	.10	.09					100.08
RCH-01A+01B	-32+80HIL	7718	40	310	CR	-	L L	1403	.10	.33	13.26	.15	53.64	5.08	14.05	13.08	0.00	.29	.20	.04					100.21
RCH-01A+01B	-32+80HIL	7718	40	315	CR	-	L L	1471	.09	2.38	15.84	.14	42.12	10.12	15.33	13.69	.00	.26	.18	.03					100.18
RCH-01A+01B	-32+80HIL	7718	40	608	CR	-	G L	825	.01	1.36	10.82	.40	46.64	11.15	21.34	8.65	0.00	.38	.11	.12					100.97
RCH-01A+01B	-32+80HIL	7718	40	808	CR	-	K L	1017+	.10	.30	11.62	.12	54.32	4.89	16.60	11.09	0.00	.33	.14	.07					99.57
RCH-01A+01B	-32+80HIL	7718	40	809	CR	-	G L	952+	.06	.41	14.15	.18	50.12	6.14	18.22	10.45	.00	.32	.14	.08					100.28
RCH-01A+01B	-32+80HIL	7718	40	909	CR	-	G L	782	.06	.43	13.00	.27	48.64	8.45	19.39	9.56	0.00	.31	.13	.14					100.38
RCH-01A+01B	-32+80HIL	7718	40	911	CR	-	K L	1003+	.00	.34	11.58	.17	53.79	6.49	15.43	11.94	.00	.36	.07	.07					100.26
RCH-01A+01B	-32+80HIL	7718	40	912	CR	-	G L	1023+	.01	2.17	12.28	.51	45.09	10.10	19.88	10.23	0.00	.34	.15	.07					100.83
RCH-01A+01B	-32+80HIL	7718	40	913	CR	-	K K	851	.12	.42	9.70	.18	56.40	5.21	15.84	11.56	.00	.32	.08	.11					99.94
RCH-01A+01B	-32+80HIL	7718	41	403	CR	-	K L	1011+	.02	1.25	12.49	.34	50.28	7.33	16.58	11.88	.01	.33	.14	.07					100.74
RCH-01A+01B	-32+80HIL	7718	41	404	CR	-	L L	788	.04	.22	13.41	.20	47.43	10.46	16.81	11.07	0.00	.36	.14	.14					100.27
RCH-01A+01B	-32+80HIL	7718	41	413	CR	-	G L	880	.12	1.18	26.74	.16	35.65	7.72	12.27	16.16	.01	.22	.26	.10					100.59
RCH-01A+01B	-32+80HIL	7723	10	116	CR	-	U G	688	.01	1.01	5.63	.18	51.13	11.47	24.30	5.67	.00	.53	.09	.20					100.21
RCH-01A+01B	-32+80HIL	7723	10	206	CR	-	K K	935	.09	.46	9.32	.15	55.24	6.55	17.35	10.59	0.00	.33	.12	.09					100.29
RCH-01A+01B	-32+80HIL	7723	10	314	CR	-	U G		.02	.33	5.97	.07	53.58	6.30	28.61	.52	0.00	1.95	.10	1.62					99.06
RCH-01A+01B	-32+80HIL	7723	10	507	CR	-	K L	1047+	.07	.37	12.43	.22	51.78	6.83	16.37	11.43	0.00	.32	.11	.07					99.99
RCH-01A+01B	-32+80HIL	7723	10	616	CR	-	G L		.12	.36	10.12	.14	55.55	5.85	16.14	11.46	.01	.32	.14	.00					100.19
RCH-01A+01B	-32+80HIL	7723	10	710	CR	-	L L	744	0.00	.02	20.48	.29	48.19	3.73	12.46	14.64	.00	.29	.07	.16					100.32
RCH-01A+01B	-32+80HIL	7723	10	716	CR	-	L L	1276	.04	.52	11.91	.22	53.00	5.73	17.37	10.84	.01	.35	.10	.04					100.15
RCH-01A+01B	-32+80HIL	7723	10	904	CR	-	L L	869	.01	.65	14.88	.19	50.45	5.13	17.10	11.37	.01	.38	.11	.11					100.38
RCH-01A+01B	-32+80HIL	7723	10	916	CR	-	U G	597	0.00	1.40	11.69	.25	45.49	8.31	27.48	4.29	.00	.68	.02	.30					99.91
RCH-01A+01B	-32+80HIL	7723	11	101	CR	-	U G		.06	.22	7.33	.09	52.15	6.15	28.36	.55	.00	1.82	.15	2.09					98.98
RCH-01A+01B	-32+80HIL	7723	11	110	CR	-	K K	765	.02	1.59	7.34	.31	47.13	13.67	21.74	7.97	.01	.37	.20	.15					100.49
RCH-01A+01B	-32+80HIL	7723	11	309	CR	-	G U		.03	.38	13.77	.22	47.12	7.41	23.06	6.58	.00	.78	.05	.61					100.01
RCH-01A+01B	-32+80HIL	7723	11	315	CR	-	K L	874	.12	.34	11.87	.10	52.73	7.61	14.09	12.92	.00	.30	.13	.10					100.31
RCH-01A+01B	-32+80HIL	7723	11	407	CR	-	L L	806	.04	.30	16.71	.17	48.28	7.52	13.37	13.90	.00	.29	.14	.13					100.86
RCH-01A+01B	-32+80HIL	7723	11	408	CR	-	G L	832	.05	.42	12.65	.26	49.81	7.72	19.58	9.42	.00	.37	.08	.12					100.47
RCH-01A+01B	-32+80HIL	7723	11	417	CR	-	U G		.10	.18	6.26	.11	54.80	5.30	28.32	.65	.00	2.20	.09	1.72					99.74
RCH-01A+01B	-32+80HIL	7723	11	511	CR	-	K K	836	.04	.85	10.03	.28	55.26	6.69	13.58	13.39	0.00	.29	.11	.12					100.64
RCH-01A+01B	-32+80HIL	7723	11	618	CR	-	L L		.07	1.94	22.08	.21	38.04	8.67	13.59	15.22	.01	.25	.22	.02					100.32
RCH-01A+01B	-32+80HIL	7723	20	106	CR	-	K L	846	.06	.49	14.20	.30	49.71	7.17	15.91	12.01	0.00	.33	.15	.11					100.45
RCH-01A+01B	-32+80HIL	7723	20	211	CR	-	L L	835	.06	.34	13.35	.19	54.90	3.20	14.81	12.49	.00	.33	.11	.12					99.90
RCH-01A+01B	-32+80HIL	7723	20	303	CR	-	L L	1217+	.07	.53	13.84	.20	52.18	4.91	14.30	12.93	0.00	.32	.13	.05					99.46
RCH-01A+01B	-32+80HIL	7723	20	319	CR	-	L L	1019+	.10	1.44	26.86	.19	33.95	8.39	13.13	15.74	.00	.20	.22	.07					100.29
RCH-01A+01B	-32+80HIL	7723	20	401	CR	-	L L	1111+	.07	.34	11.40	.21	51.43	6.37	21.94	7.06	0.00	1.40	.10	.06					100.38
RCH-01A+01B	-32+80HIL	7723	20	403	CR	-	G G	666	.06	.36	10.97	.26	50.18	5.95	27.71	3.03	.01	1.66	.07	.22					100.47
RCH-01A+01B	-32+80HIL	7723	20	404	CR	-	L L	803	.07	.49	14.74	.20	51.99	3.72	17.20	11.25	.01	.30	.09	.13					100.19

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp															Trace					
				Grain	SA	CFM	DI	M C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
RCH-01A+01B	-32+80HIL	7723	20	408	CR	-	K L	911	.03	1.16	16.54	.30	46.80	7.15	14.05	13.88	0.00	.30	.12	.09							100.42
RCH-01A+01B	-32+80HIL	7723	20	412	CR	-	G L	1145+	.09	.24	8.10	.05	56.06	6.39	19.89	8.28	.00	.86	.18	.06							100.20
RCH-01A+01B	-32+80HIL	7723	20	519	CR	-	U G		.07	.29	6.80	.11	47.40	11.79	28.16	.49	.02	2.32	.01	2.06						99.54	
RCH-01A+01B	-32+80HIL	7723	20	603	CR	-	L L	1121+	0.00	.26	18.08	.17	50.25	4.10	11.57	15.09	.00	.27	.08	.06						99.93	
RCH-01A+01B	-32+80HIL	7723	20	604	CR	-	U G		.05	.97	8.56	.22	45.53	10.69	29.93	.51	.01	1.87	.07	1.74						100.15	
RCH-01A+01B	-32+80HIL	7723	20	605	CR	-	L L	1335	.06	.52	10.19	.22	55.67	6.05	15.50	12.00	0.00	.33	.15	.04						100.73	
RCH-01A+01B	-32+80HIL	7723	20	606	CR	-	U G	834	.04	.61	13.22	.32	49.27	7.91	18.46	10.22	.00	.60	.14	.12						100.91	
RCH-01A+01B	-32+80HIL	7723	20	916	CR	-	L L	1481	.07	.45	14.68	.35	51.26	5.62	13.74	13.52	0.00	.26	.14	.03						100.14	
RCH-01A+01B	-32+80HIL	7723	20	918	CR	-	K L	1032+	.06	.31	12.86	.14	52.24	5.97	16.57	11.30	.00	.30	.13	.07						99.95	
RCH-01A+01B	-32+80HIL	7723	21	206	CR	-	G L		.10	.29	13.53	.16	53.21	5.90	12.24	14.29	.01	.27	.18	.00						100.17	
RCH-01A+01B	-32+80HIL	7723	21	309	CR	-	L L		.07	.31	17.84	.18	50.48	5.14	9.16	16.82	0.00	.21	.19	.02						100.42	
RCH-01A+01B	-32+80HIL	7723	21	519	CR	-	K L	909	.04	.44	12.11	.26	51.52	7.21	18.36	10.23	0.00	.35	.11	.09						100.72	
RCH-01A+01B	-32+80HIL	7723	21	606	CR	-	U G		.06	.33	7.26	.07	50.53	8.49	29.50	.47	0.00	2.16	.00	1.21						100.09	
RCH-01A+01B	-32+80HIL	7723	30	101	CR	-	K L	803	.03	.83	10.15	.22	55.47	6.00	13.97	13.06	.00	.31	.07	.13						100.25	
RCH-01A+01B	-32+80HIL	7723	30	201	CR	-	U G		.07	.22	3.44	0.00	58.81	5.29	29.39	.51	.00	1.79	.19	.98						100.69	
RCH-01A+01B	-32+80HIL	7723	30	310	CR	-	G G	916	.02	1.48	12.23	.39	44.28	8.87	27.35	4.79	0.00	.33	.14	.09						99.99	
RCH-01A+01B	-32+80HIL	7723	30	320	CR	-	K L	1037+	0.00	.72	12.65	.27	50.10	7.71	16.75	11.37	0.00	.32	.09	.07						100.03	
RCH-01A+01B	-32+80HIL	7723	30	406	CR	-	K K	806	.09	.44	9.68	.16	56.07	5.83	16.24	11.33	.00	.32	.15	.13						100.43	
RCH-01A+01B	-32+80HIL	7723	30	511	CR	-	G G		.06	.27	12.52	.17	48.39	4.80	31.16	.98	.00	.88	.18	.70						100.11	
RCH-01A+01B	-32+80HIL	7723	30	517	CR	-	G G	972+	.08	.32	8.85	.10	54.87	4.78	23.15	6.31	.00	.59	.09	.08						99.23	
RCH-01A+01B	-32+80HPY	7683	40	513	OP5	-			56.14	.11	1.19		.63		7.78	31.87	2.12	.19	.14		.04		.01			100.22	
RCH-01A+01B	-32+80HPY	7699	10	112	OLV-FORS	DI			40.92	.01	0.00		.03		7.66	51.69	.02	.08	.43		.01		0.00			100.84	
RCH-01A+01B	-32+80HPY	7718	30	507	OLV-FORS	DI			41.45	.01	0.00		0.00		5.83	53.28	.01	.08	.42		0.00		.00			101.09 #	
RCH-01A+01B	-32+80HPY	7718	30	513	OLV-FORS	DI			41.61	.01	0.00		.02		6.29	52.62	.01	.11	.34		0.00		.01			101.03 #	
RCH-01A+01B	-32+80HPY	7718	30	601	OLV-FORS	DI			41.61	.03	.02		.07		6.78	52.36	.03	.10	.40		.00		0.00			101.40 #	
RCH-01A+01B	-32+80HPY	7718	30	603	OLV-FORS	DI			41.51	.02	.01		.00		6.25	52.91	.02	.09	.32		.01		.00			101.15 #	
RCH-01A+01B	-32+80HPY	7718	30	705	OLV-FORS	DI			41.51	0.00	.00		.00		6.47	52.40	.01	.11	.33		.02		.00			100.86	
RCH-01A+01B	-32+80HPY	7683	40	501	OLV-FORS	DI*			41.93	.02	0.00		0.00		6.19	51.75	.01	.10	.33		0.00		0.00			100.33	
RCH-01A+01B	-32+80HPY	7718	30	401	OLV-FORS	DI*			41.69	.01	.02		.00		6.24	52.86	0.00	.09	.32		0.00		0.00			101.23 #	
RCH-01A+01B	-32+80HPY	7718	30	501	OLV-FORS	DI*			41.59	0.00	.01		.05		6.23	53.02	.02	.06	.35		0.00		0.00			101.34 #	
RCH-01A+01B	-32+80HPY	7718	30	504	OLV-FORS	DI*			41.84	0.00	.01		.03		5.82	53.33	.01	.07	.34		.00		.00			101.44 #	
RCH-01A+01B	-32+80HPY	7718	30	512	OLV-FORS	DI*			41.70	0.00	.01		.02		5.93	53.15	.01	.09	.41		.01		.01			101.33 #	
RCH-01A+01B	-32+80HPY	7718	30	702	OLV-FORS	DI*			41.74	.02	0.00		.00		6.16	52.11	.02	.09	.31		0.00		0.00			100.45	
RCH-01A+01B	-32+80HPY	7718	30	703	OLV-FORS	DI*			41.24	0.00	.01		.01		6.70	51.98	.01	.09	.38		.01		.00			100.44	
RCH-01A+01B	-32+80HPY	7718	30	708	OLV-FORS	DI*			41.93	.02	.01		0.00		5.85	52.95	.02	.09	.32		0.00		.00			101.19 #	
RCH-01A+01B	-32+80HIL	7723	21	515	CR	TI	U U	534	.04	3.51	10.63	.35	44.21	6.65	29.03	4.33	.00	.65	.17	.42						99.99	
RCH-01A+01B	-32+80HPY	7718	30	714	CE	CP2	-		54.08	.40	.82		.50		6.56	17.06	19.78	.19	.10		.42		.01			99.92	
RCH-01A+01B	-32+80HPY	7718	31	302	CE	CP2	-		54.99	0.00	.70		.09		4.56	14.99	23.12	.11	.03		1.36		.01			99.96	
RCH-01A+01B	-32+80HPY	7683	31	704	CP	CP2	-	--	53.98	.33	.71		.68		6.61	17.70	19.18	.18	.08		.44		.00			99.91	
RCH-01A+01B	-32+80HPY	7683	31	721	CP	CP2	-	--	53.49	.40	.96		1.03		5.62	17.05	20.40	.15	.11		.58		0.00			99.77	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	T (Zn) °C															Na2O wt %	K2O wt %
RCH-01A+01B	-32+80HPY	7683	40	104	CP	CP2	-	--	53.84	.36	.77		.91	5.80	17.54	20.00	.17	.05				.51	.00	99.95	
RCH-01A+01B	-32+80HPY	7683	40	105	CP	CP2	-	--	53.49	.36	.95		1.14	5.79	17.44	19.83	.16	.08				.54	.00	99.79	
RCH-01A+01B	-32+80HPY	7683	40	106	CP	CP2	-	--	53.63	.39	.90		1.05	5.51	17.27	20.36	.16	.08				.49	0.00	99.85	
RCH-01A+01B	-32+80HPY	7683	40	110	CP	CP2	-	--	53.77	.32	.76		1.01	5.54	17.81	19.92	.15	.05				.50	.00	99.83	
RCH-01A+01B	-32+80HPY	7683	40	303	CP	CP2	-	--	53.80	.31	.70		.93	5.74	17.93	19.52	.15	.05				.44	.01	99.59	
RCH-01A+01B	-32+80HPY	7699	10	405	CP	CP2	-	--	53.64	.32	.75		.81	5.33	17.92	20.05	.15	.08				.47	0.00	99.51	
RCH-01A+01B	-32+80HPY	7718	30	815	CP	CP2	-	--	53.98	.33	.78		.83	6.17	17.55	19.29	.18	.08				.46	.00	99.65	
RCH-01A+01B	-32+80HPY	7718	30	902	CP	CP2	-	--	53.79	.32	.89		.94	5.96	17.48	19.29	.17	.10				.49	.01	99.42	
RCH-01A+01B	-32+80HPY	7718	30	911	CP	CP2	-	--	53.53	.31	1.23		1.33	5.28	16.71	20.81	.14	.06				.55	.00	99.96	
RCH-01A+01B	-32+80HPY	7718	31	604	CP	CP2	-	--	53.54	.39	1.00		.95	5.79	16.81	20.26	.16	.08				.52	.01	99.49	
RCH-01A+01B	-32+80HPY	7718	31	607	CP	CP2	-	--	53.66	.34	.95		1.11	5.71	17.56	19.76	.13	.06				.53	.00	99.80	
RCH-01A+01B	-32+80HPY	7718	40	103	CP	CP2	-	--	53.71	.21	.99		.75	5.40	17.41	20.79	.15	.02				.30	.00	99.74	
RCH-01A+01B	-32+80HPY	7718	40	113	CP	CP2	-	--	53.57	.35	.87		1.02	5.61	17.00	20.36	.12	.06				.46	.00	99.44	
RCH-01A+01B	-32+80HPY	7718	40	201	CP	CP2	-	--	53.92	.31	.78		1.01	5.28	17.48	19.81	.13	.09				.52	0.00	99.33	
RCH-01A+01B	-32+80HPY	7718	40	206	CP	CP2	-	--	54.03	.28	.85		1.15	5.32	17.45	19.74	.14	.07				.52	.01	99.56	
RCH-01A+01B	-32+80HIL	7723	20	207	CP	CP2	-	--	53.90	.33	.97		1.24	5.56	17.38	19.65	.16	.10				.50	.00	99.79	
RCH-01A+01B	-32+80HPY	7699	10	204	CP	CP5	-	--	54.80	.08	.41		1.14	2.07	16.74	23.13	.05	0.00				1.17	0.00	99.60	
RCH-01A+01B	-32+80HPY	7699	10	909	CP	CP5	-	--	53.75	.21	2.47		2.71	1.69	15.32	20.62	.07	.01				2.39	.01	99.25	
RCH-01A+01B	-32+80HPY	7718	30	903	CP	CP5	-	--	54.14	.16	1.15		.67	2.90	16.66	23.65	.11	.02				.29	.01	99.75	
RCH-01A+01B	-32+80HPY	7718	30	712	CP	CP6	-	--	53.40	.26	1.86		.62	4.27	16.18	22.30	.13	.03				.42	0.00	99.47	
RCH-01A+01B	-32+80HPY	7718	31	603	CP	CP6	-	--	54.76	.34	2.76		.52	3.88	16.30	18.83	.12	.06				1.86	.02	99.46	
RCH-01A+01B	-32+80HPY	7683	31	619	CP	CPX	-	--	53.42	.37	.99		1.22	5.58	17.46	19.66	.16	.09				.52	0.00	99.47	
RCH-01A+01B	-32+80HPY	7683	31	720	CP	CPX	-	--	53.21	.30	.67		.89	5.91	17.75	19.63	.18	.07				.45	0.00	99.07	
RCH-01A+01B	-32+80HPY	7683	40	210	CP	CPX	-	--	53.31	.41	.92		1.01	5.61	16.94	20.73	.13	.05				.59	0.00	99.69	
RCH-01A+01B	-32+80HPY	7699	10	301	CP	CPX	-	--	53.18	.34	.86		.97	5.43	17.70	20.25	.15	.07				.50	0.00	99.45	
RCH-01A+01B	-32+80HPY	7699	10	308	CP	CPX	-	--	53.18	.38	.93		.91	5.87	17.57	19.90	.16	.05				.51	0.00	99.46	
RCH-01A+01B	-32+80HPY	7699	10	415	CP	CPX	-	--	52.97	.36	1.01		1.05	5.76	17.51	19.70	.16	.08				.52	0.00	99.10	
RCH-01A+01B	-32+80HPY	7718	31	116	CP	CPX	-	--	53.38	.34	1.00		1.26	5.70	17.39	19.44	.15	.06				.51	.01	99.23	
RCH-01A+01B	-32+80HPY	7718	31	217	CP	CPX	-	--	53.18	.36	1.31		1.16	5.56	16.45	20.55	.16	.05				.60	.01	99.40	
RCH-01A+01B	-32+80HPY	7718	31	407	CP	CPX	-	--	53.40	.38	1.42		.76	3.85	16.19	22.99	.08	.02				.56	.00	99.65	
RCH-01A+01B	-32+80HPY	7718	31	605	CP	CPX	-	--	53.36	.38	1.00		.91	6.10	16.93	19.43	.17	.07				.53	.00	98.88	
RCH-01A+01B	-32+80HPY	7683	31	608	CP	CP2	-	Diam	53.99	.31	.90		1.06	6.14	18.58	18.38	.17	.05				.53	0.00	100.11	
RCH-01A+01B	-32+80HPY	7683	31	716	CP	CP2	-	Diam	53.85	.30	.84		1.13	5.89	18.33	18.98	.15	.07				.52	.00	100.06	
RCH-01A+01B	-32+80HPY	7683	40	314	CP	CP2	-	Diam	54.05	.37	.82		.99	5.46	17.81	20.12	.16	.03				.49	.01	100.32	
RCH-01A+01B	-32+80HPY	7683	40	315	CP	CP2	-	Diam	53.66	.38	.88		1.02	5.55	17.81	20.00	.15	.07				.56	0.00	100.08	
RCH-01A+01B	-32+80HPY	7683	40	409	CP	CP2	-	Diam	53.54	.34	.92		1.08	6.16	17.89	18.91	.17	.08				.57	0.00	99.65	
RCH-01A+01B	-32+80HPY	7718	40	110	CP	CP2	-	Diam	53.81	.34	.90		1.01	5.57	17.90	19.65	.15	.10				.48	.00	99.91	
RCH-01A+01B	-32+80HPY	7718	30	817	CP	CP2	-	Diam-	53.81	.38	1.02		1.15	6.09	17.52	19.07	.16	.07				.54	.00	99.82	
RCH-01A+01B	-32+80HPY	7718	30	904	CP	CP2	-	Diam-	53.66	.30	.95		1.16	5.79	17.61	19.37	.15	.07				.57	.00	99.63	
RCH-01A+01B	-32+80HPY	7718	31	113	CP	CP2	-	Diam-	53.72	.36	.90		1.14	5.59	18.01	19.47	.15	.11				.51	0.00	99.97	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C																T (Zn) °C	K2O wt %
RCH-01A+01B	-32+80HPY	7683	31	610	CP	CPX	-	Diam-	53.46	.29	1.12		1.31		4.99	17.65	20.13	.16	.08				.63		.00	99.82
RCH-01A+01B	-32+80HPY	7683	40	102	CP	CPX	-	Diam-	52.98	.43	1.10		1.06		6.32	17.50	18.98	.16	.06				.62		0.00	99.21
RCH-01A+01B	-32+80HPY	7699	10	903	CP	CPX	-	Diam-	53.01	.36	.97		1.17		5.45	17.76	19.78	.17	.06				.54		0.00	99.27
RCH-01A+01B	-32+80HPY	7718	30	807	CP	CP2	-	Gr	53.59	.31	1.49		1.17		5.49	17.51	19.58	.15	.06				.46		0.00	99.81
RCH-01A+01B	-32+80HPY	7718	30	813	CP	CP2	-	Gr	53.99	.24	.97		.70		4.53	17.58	21.40	.12	.03				.25		0.00	99.80
RCH-01A+01B	-32+80HPY	7683	31	615	CP	CPX	-	Gr	53.33	.17	2.12		.98		6.17	19.09	17.54	.15	.05				.25		.00	99.85
RCH-01A+01B	-32+80HPY	7683	40	211	CP	CPX	-	Gr	53.15	.33	1.40		1.19		5.67	17.74	19.52	.13	.08				.46		.00	99.66
RCH-01A+01B	-32+80HPY	7683	40	307	CP	CPX	-	Gr	53.40	.34	1.28		1.27		5.59	17.29	19.95	.15	.09				.59		.01	99.95
RCH-01A+01B	-32+80HPY	7699	10	313	CP	CPX	-	Gr	52.22	.45	1.76		.85		6.40	17.38	19.42	.17	.06				.49		0.00	99.20
RCH-01A+01B	-32+80HPY	7699	10	501	CP	CPX	-	Gr	51.58	.26	3.44		1.25		5.54	17.48	19.57	.16	.05				.31		.00	99.65
RCH-01A+01B	-32+80HPY	7699	10	703	CP	CPX	-	Gr	52.67	.33	1.63		1.29		5.72	17.90	19.24	.13	.07				.52		.00	99.49
RCH-01A+01B	-32+80HPY	7718	30	816	CP	CPX	-	Gr	53.41	.30	1.31		1.18		5.40	17.36	19.67	.15	.04				.43		.00	99.26
RCH-01A+01B	-32+80HPY	7718	31	201	CP	CPX	-	Gr	54.34	.13	1.89		.78		2.87	17.66	20.88	.05	.15				.67		0.00	99.42
RCH-01A+01B	-32+80HPY	7718	31	612	CP	CPX	-	Gr	52.67	.16	2.24		1.00		4.34	16.24	22.40	.11	.03				.33		0.00	99.51
RCH-01A+01B	-32+80HPY	7718	40	208	CP	CPX	-	Gr	53.25	.22	2.36		.78		5.87	17.56	19.01	.16	.02				.27		.00	99.52
RCH-01A+01B	-32+80HPY	7683	31	605	E	G 9		HPM	41.84	.96	21.97		.59		11.52	18.70	4.69	.39	.01				.134		0.00	100.78
RCH-01A+01B	-32+80HPY	7699	10	102	E	G 9		HPM	41.96	.36	23.93		.13		9.88	19.42	4.42	.35	.00				.060		.00	100.50
RCH-01A+01B	-32+80HPY	7683	31	602	E	G 9		HPM*	41.99	.48	22.96		.91		9.55	19.56	4.57	.34	.00				.053		0.00	100.39
RCH-01A+01B	-32+80HPY	7699	10	101	E	G 9		HPM*	41.36	.69	21.91		1.69		9.50	19.09	5.40	.34	0.00				.051		0.00	100.01
RCH-01A+01B	-32+80HPY	7683	31	514	E	G 9		HPM/G2	41.89	.47	22.31		1.89		9.43	19.27	5.00	.39	0.00				.060		0.00	100.70
RCH-01A+01B	-32+80HPY	7683	31	511	P	G 9			41.96	.03	21.19		4.11		8.15	19.28	5.44	.54	.02				.03		.01	100.77
RCH-01A+01B	-32+80HPY	7683	31	517	P	G 9			41.87	.58	20.57		3.51		8.08	19.67	5.82	.31	0.00				.03		.00	100.46
RCH-01A+01B	-32+80HPY	7683	31	518	P	G 9			42.03	.00	22.45		2.67		8.48	19.30	5.38	.63	0.00				.01		0.00	100.94
RCH-01A+01B	-32+80HPY	7718	30	210	P	G 9			42.04	.46	21.31		2.60		8.29	19.62	5.27	.33	0.00				.03		.01	99.96
RCH-01A+01B	-32+80HPY	7718	30	303	P	G 9			41.83	.47	20.61		3.68		7.30	20.24	5.32	.32	.02				.04		.00	99.83
RCH-01A+01B	-32+80HPY	7718	30	308	P	G 9			41.94	.18	20.24		4.46		6.93	20.22	5.64	.30	.01				.03		.00	99.94
RCH-01A+01B	-32+80HPY	7683	31	509	P	G 9-1			42.24	.19	20.71		4.17		6.72	20.94	5.24	.28	.00				.01		.01	100.50
RCH-01A+01B	-32+80HPY	7683	31	512	P	G 9-1			42.00	.23	22.48		2.49		7.96	20.05	4.92	.39	.02				.04		0.00	100.58
RCH-01A+01B	-32+80HPY	7699	10	109	P	G 9-1			41.50	.05	21.21		4.55		7.35	19.71	5.26	.44	0.00				.02		.01	100.10
RCH-01A+01B	-32+80HPY	7718	30	212	P	G 9-1			41.99	.01	21.12		4.22		7.33	20.48	4.34	.45	0.00				.01		0.00	99.95
RCH-01A+01B	-32+80HPY	7718	30	214	P	G 9-1			41.90	.16	20.98		4.06		7.75	19.63	5.29	.40	.02				.03		.00	100.23
RCH-01A+01B	-32+80HPY	7718	30	217	P	G 9-1			42.02	.22	21.39		3.57		7.27	20.40	4.86	.39	.02				.04		0.00	100.19
RCH-01A+01B	-32+80HPY	7718	30	305	P	G 9-1			41.31	.03	20.62		4.29		7.33	20.50	5.25	.45	0.00				.03		.00	99.81
RCH-01A+01B	-32+80HPY	7718	30	310	P	G 9-1			42.08	.06	21.35		3.92		7.49	19.98	5.18	.43	.00				.02		0.00	100.53
RCH-01A+01B	-32+80HPY	7699	10	104	P	G10-2			41.42	.07	20.02		6.20		6.47	20.57	4.87	.35	.02				.02		.00	100.00
RCH-01A+01B	-32+80HPY	7683	31	515	P	G11			41.19	.23	18.63		6.65		7.65	18.57	6.34	.44	.01				.03		0.00	99.74
RCH-01A+01B	-32+80HPY	7699	10	107	P	G11			41.28	.02	20.41		5.42		7.29	19.05	6.03	.43	.01				.00		0.00	99.92
RCH-01A+01B	-32+80HPY	7718	30	208	P	G11			41.46	.01	19.17		6.28		7.42	18.66	6.43	.47	0.00				.01		.00	99.91
RCH-01A+01B	-32+80HPY	7718	30	213	P	G11			41.74	.01	20.64		4.60		7.51	18.91	6.00	.51	0.00				.01		.00	99.93
RCH-01A+01B	-32+80HPY	7718	30	215	P	G11			41.39	.03	18.79		6.57		7.16	18.94	6.31	.38	.06				.00		0.00	99.62

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C																T (Zn) °C	K2O wt %
RCH-01A+01B	-32+80HPY	7718	30	216	P	G11			41.54	.22	18.37		6.54		7.22	19.22	6.20	.35	0.00				.02		0.00	99.67
RCH-01A+01B	-32+80HPY	7718	30	304	P	G11			41.31	.12	17.84		7.63		5.91	19.64	6.54	.28	.02				.02		0.00	99.31
RCH-01A+01B	-32+80HPY	7718	30	307	P	G11			41.08	.21	18.37		6.81		7.67	19.06	6.25	.45	.02				.06		0.00	99.95
RCH-01A+01B	-32+80HPY	7718	30	309	P	G11			41.24	.67	19.02		5.21		8.20	18.99	6.01	.37	0.00				.07		.00	99.77
RCH-01A+01B	-32+80HPY	7718	30	311	P	G11			41.53	.19	19.64		5.38		8.33	18.43	5.89	.45	.02				.04		0.00	99.90
RCH-01A+01B	-32+80HPY	7683	31	513	P	G11-1			41.67	.20	20.07		5.17		7.46	19.59	5.57	.38	0.00				.01		.00	100.13
RCH-01A+01B	-32+80HPY	7683	31	516	P	G11-1			41.38	.39	18.89		6.66		7.34	19.12	6.10	.39	0.00				.06		.01	100.33
RCH-01A+01B	-32+80HPY	7683	31	519	P	G11-1			41.69	.26	20.04		5.11		7.48	19.68	5.43	.40	0.00				.05		0.00	100.14
RCH-01A+01B	-32+80HPY	7683	31	520	P	G11-1			41.82	.25	20.03		5.06		7.45	19.77	5.42	.42	0.00				.05		.01	100.27
RCH-01A+01B	-32+80HPY	7699	10	105	P	G11-1			41.44	.19	20.51		5.30		7.19	20.20	5.10	.46	.00				.05		.00	100.45
RCH-01A+01B	-32+80HPY	7699	10	106	P	G11-1			41.44	.01	21.14		4.83		6.78	20.32	5.15	.46	0.00				.02		.00	100.16
RCH-01A+01B	-32+80HPY	7699	10	108	P	G11-1			41.16	.34	19.94		5.44		7.18	19.97	5.48	.37	.01				.06		0.00	99.95
RCH-01A+01B	-32+80HPY	7718	30	209	P	G11-1			41.46	.02	19.69		5.81		7.12	19.63	5.06	.45	0.00				.02		.00	99.28
RCH-01A+01B	-32+80HPY	7718	30	211	P	G11-1			41.48	.29	19.69		5.22		7.85	18.93	5.66	.42	.02				.05		0.00	99.63
RCH-01A+01B	-32+80HPY	7718	30	301	P	G11-1			41.48	.21	19.58		5.78		6.84	20.17	5.62	.40	.01				.04		.00	100.12
RCH-01A+01B	-32+80HPY	7718	30	302	P	G11-1			41.46	.29	20.05		4.94		7.40	20.24	5.22	.37	0.00				.06		.00	100.02
RCH-01A+01B	-32+80HPY	7718	30	306	P	G11-1			41.99	.15	20.23		4.88		7.03	20.22	5.39	.36	.01				.01		.01	100.28
RCH-01A+01B	-32+80HPY	7683	31	510	P	GT			40.48	.15	20.14		4.21		12.55	15.17	6.86	.71	0.00				.01		.01	100.28



ISO 9001:2015
ISO 17025:2005



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Diamond Indicator **ANALYSES** and **CLASSIFICATIONS** for 1 RJK Explorations sample

Source : EPMA
Status : BASE: BD28
Project : RJC1

Sample:
NL-RCH-03A

File Name : PRB9743F
Analyses: 475
Date : 13 October 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																		
				Grain	SA	CFM	DI	M C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
NL-RCH-03A	-32+80HIL	7719	20	716		CR		U G		.08	.41	6.38	.08	52.33	7.36	29.29	.25	.01	2.39	0.00	1.53						100.12
NL-RCH-03A	-32+80HIL	7723	30	909		CR		U G		.07	.24	6.34	.05	54.14	5.80	28.73	.44	.02	2.11	.05	1.80						99.80
NL-RCH-03A	-32+80HIL	7719	21	604		IL								.09	5.63	39.96	2.98	.01	.51		.06	0.00					100.32
NL-RCH-03A	-32+80HIL	7723	30	703		OLV				38.26	.02	.01		0.00		22.15	38.91	.15	.33	.21			.01		0.00	100.05	
NL-RCH-03A	-32+80HPY	7683	10	505		OLV-FORS				41.29	.00	.01		.01		8.79	49.58	.02	.14	.32			.01		.00	100.17	
NL-RCH-03A	-32+80HPY	7683	10	510		OLV-FORS				41.63	.01	0.00		.03		6.24	52.15	.02	.09	.34			.01		0.00	100.53	
NL-RCH-03A	-32+80HPY	7683	10	605		OLV-FORS				41.47	.00	0.00		.03		7.77	50.65	.01	.12	.31			.00		0.00	100.38	
NL-RCH-03A	-32+80HPY	7699	11	215		OLV-FORS				41.21	.01	.00		0.00		7.78	50.33	.04	.11	.41			0.00		.01	99.90	
NL-RCH-03A	-32+80HPY	7699	11	312		OLV-FORS				41.19	.00	0.00		.02		7.57	50.38	.02	.10	.40			0.00		.00	99.69	
NL-RCH-03A	-32+80HPY	7699	11	313		OLV-FORS				41.27	.01	.01		.04		7.46	50.81	.02	.11	.40			.01		.01	100.14	
NL-RCH-03A	-32+80HPY	7699	11	402		OLV-FORS				41.13	0.00	0.00		0.00		6.45	51.75	.00	.10	.38			.01		.01	99.83	
NL-RCH-03A	-32+80HPY	7699	11	406		OLV-FORS				41.31	0.00	.01		.07		7.49	50.77	.05	.11	.35			.01		.01	100.16	
NL-RCH-03A	-32+80HPY	7719	11	701		OLV-FORS				41.21	.02	.00		.03		8.10	50.64	.02	.11	.38			.01		0.00	100.51	
NL-RCH-03A	-32+80HPY	7719	11	703		OLV-FORS				41.75	.00	0.00		.01		6.20	52.18	.02	.09	.36			.00		0.00	100.61	
NL-RCH-03A	-32+80HPY	7719	11	705		OLV-FORS				41.78	.00	.01		0.00		5.86	52.08	.02	.11	.42			0.00		.00	100.29	
NL-RCH-03A	-32+80HPY	7683	11	403		PIL						.32		3.04	8.40	23.06	13.11	.01	.33			.03	.05			100.34	
NL-RCH-03A	-32+80HIL	7683	11	406		PIL						.39		1.51	8.47	22.16	14.26	.02	.30			.05	.15			100.43	
NL-RCH-03A	-32+80HIL	7683	11	612		PIL						.30		1.07	9.31	26.84	11.03	.01	.29			.03	.12			100.94	
NL-RCH-03A	-32+80HIL	7683	20	905		PIL						.13		.83	20.32	27.72	6.70	.01	.27			.04	.14			100.46	
NL-RCH-03A	-32+80HIL	7683	20	909		PIL						.38		1.50	7.99	22.75	14.03	.02	.27			.03	.08			100.39	
NL-RCH-03A	-32+80HIL	7683	21	114		PIL						.36		6.54	10.08	21.70	12.49	.00	.25			.04	.07			100.66	
NL-RCH-03A	-32+80HIL	7719	20	102		PIL						.23		.77	9.95	26.44	10.99	.02	.26			.08	.09			100.30	
NL-RCH-03A	-32+80HIL	7719	20	310		PIL						.20		.86	12.37	27.67	9.19	.02	.32			0.00	.15			99.97	
NL-RCH-03A	-32+80HIL	7719	20	608		PIL						.28		4.29	9.37	24.40	11.21	.02	.29			0.00	.04			99.55	
NL-RCH-03A	-32+80HIL	7719	20	610		PIL						.20		.82	10.98	27.12	10.02	.03	.29			.06	.18			99.92	
NL-RCH-03A	-32+80HIL	7719	20	711		PIL						.26		3.94	9.23	25.12	11.08	.01	.27			.02	.15			100.14	
NL-RCH-03A	-32+80HIL	7719	20	812		PIL						.47		.41	9.14	26.32	11.46	.02	.27			0.00	.09			100.38	
NL-RCH-03A	-32+80HIL	7719	20	901		PIL						.25		.95	10.37	27.11	10.33	.00	.26			.05	.17			100.28	
NL-RCH-03A	-32+80HIL	7719	20	902		PIL						.37		.61	9.46	26.56	11.10	.01	.28			0.00	.12			100.20	
NL-RCH-03A	-32+80HIL	7719	20	914		PIL						.28		.96	9.94	27.16	10.40	.02	.26			0.00	.11			100.10	
NL-RCH-03A	-32+80HIL	7719	21	103		PIL						.30		.92	9.30	26.18	11.33	.02	.30			.04	.10			100.32	
NL-RCH-03A	-32+80HIL	7719	21	109		PIL						.25		.80	11.01	24.87	11.76	.02	.28			.06	.14			100.38	
NL-RCH-03A	-32+80HIL	7719	21	204		PIL						.43		.28	9.09	26.90	11.06	.02	.24			0.00	.13			100.12	
NL-RCH-03A	-32+80HIL	7719	21	310		PIL						.30		.81	9.07	26.85	11.05	.01	.29			.01	.14			100.44	
NL-RCH-03A	-32+80HIL	7719	21	315		PIL						.51		.50	9.77	25.96	11.28	.03	.26			.06	.09			99.94	
NL-RCH-03A	-32+80HIL	7719	21	412		PIL						.41		1.44	6.17	24.60	13.32	.02	.29			0.00	.21			100.30	
NL-RCH-03A	-32+80HIL	7719	21	507		PIL						.29		1.14	9.58	27.05	10.48	.03	.27			.04	.10			100.09	
NL-RCH-03A	-32+80HIL	7719	21	616		PIL						.35		.49	9.38	26.43	11.30	.03	.27			0.00	.09			100.34	
NL-RCH-03A	-32+80HIL	7719	21	703		PIL						.25		1.02	10.84	26.68	10.58	.02	.24			0.00	.18			100.49	
NL-RCH-03A	-32+80HIL	7719	21	707		PIL						.25		.71	10.85	27.42	10.12	.02	.30			0.00	.16			100.52	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
				Grain	SA	CFM	DI	M															C	T (Zn) °C
NL-RCH-03A	-32+80HIL	7719	21	712		PIL			52.37	.32			.48	9.03	26.56	11.37	.03	.28		.05	.08			100.57
NL-RCH-03A	-32+80HIL	7723	30	813		PIL			51.08	.31			1.30	9.93	25.81	11.24	.01	.25		0.00	.16			100.10
NL-RCH-03A	-32+80HIL	7723	30	910		PIL			50.73	.28			1.17	10.74	26.22	10.77	.01	.27		.03	.09			100.32
NL-RCH-03A	-32+80HIL	7723	31	106		PIL			51.39	.45			1.12	10.47	25.69	11.35	.02	.25		.04	.00			100.77
NL-RCH-03A	-32+80HIL	7723	31	111		PIL			49.57	.19			.99	12.54	27.67	9.43	.01	.31		.02	.21			100.93
NL-RCH-03A	-32+80HIL	7723	31	612		PIL			52.14	.42			.30	9.51	26.12	11.56	.03	.24		0.00	.11			100.42
NL-RCH-03A	-32+80HIL	7723	31	613		PIL			52.22	.40			.94	9.18	25.93	11.71	.01	.29		.01	.14			100.83
NL-RCH-03A	-32+80HIL	7723	40	415		PIL			51.40	.24			.85	10.60	25.72	11.41	.01	.30		.01	.15			100.69
NL-RCH-03A	-32+80HIL	7723	40	804		PIL			49.32	.21			.95	12.49	27.74	9.25	.01	.30		0.00	.17			100.45
NL-RCH-03A	-32+80HIL	7723	40	816		PIL			51.51	.31			.81	10.66	23.91	12.51	.02	.23		.05	.18			100.18
NL-RCH-03A	-32+80HIL	7723	40	921		PIL			51.13	.66			1.11	10.46	25.23	11.55	.03	.23		.04	.13			100.57
NL-RCH-03A	-32+80HIL	7723	41	306		PIL			50.80	.23			.92	10.73	26.40	10.77	.02	.29		.00	.21			100.38
NL-RCH-03A	-32+80HIL	7723	41	404		PIL			44.33	.05			2.68	17.90	27.56	6.99	0.00	.28		.01	.42			100.23
NL-RCH-03A	-32+80HIL	7723	41	504		PIL			52.52	.52			.75	9.40	24.36	12.71	.02	.26		.05	.11			100.70
NL-RCH-03A	-32+80HIL	7723	41	519		PIL			51.50	.45			.46	10.20	26.13	11.22	.02	.25		0.00	.09			100.31
NL-RCH-03A	-32+80HIL	7723	41	601		PIL			50.94	.25			.92	10.70	26.74	10.65	0.00	.30		.04	.22			100.76
NL-RCH-03A	-32+80HIL	7723	41	610		PIL			50.57	.21			.77	11.15	27.32	10.11	.01	.28		0.00	.15			100.56
NL-RCH-03A	-32+80HIL	7723	41	612		PIL			52.05	.66			.51	10.24	24.81	12.21	.02	.23		.06	.06			100.85
NL-RCH-03A	-32+80HIL	7723	41	805		PIL			51.48	.21			1.11	10.19	26.32	11.14	.01	.30		.02	.18			100.95
NL-RCH-03A	-32+80HIL	7723	41	812		PIL			50.43	.21			.70	11.44	26.82	10.38	.02	.26		.03	.27			100.56
NL-RCH-03A	-32+80HIL	7723	41	813		PIL			49.92	.27			4.54	10.04	23.68	11.76	.02	.28		.04	.08			100.64
NL-RCH-03A	-32+80HIL	7724	10	105		PIL			45.85	.15			2.11	16.47	26.81	8.03	.01	.29		.03	.21			99.97
NL-RCH-03A	-32+80HIL	7724	10	301		PIL			52.80	.47			.56	8.63	25.27	12.35	.02	.26		.05	.12			100.54
NL-RCH-03A	-32+80HIL	7724	10	404		PIL			53.57	.39			1.56	7.04	23.96	13.50	.02	.26		.01	.14			100.45
NL-RCH-03A	-32+80HIL	7724	10	406		PIL			53.13	.30			.54	7.92	25.59	12.32	.02	.30		.00	.09			100.21
NL-RCH-03A	-32+80HIL	7724	10	610		PIL			51.60	.31			.74	9.59	26.44	11.11	.01	.24		.05	.13			100.24
NL-RCH-03A	-32+80HIL	7724	10	613		PIL			51.07	.29			1.30	10.02	26.22	10.98	.02	.29		.05	.21			100.45
NL-RCH-03A	-32+80HIL	7724	10	711		PIL			50.25	.26			3.91	9.36	24.45	11.51	.01	.27		.05	.08			100.13
NL-RCH-03A	-32+80HIL	7724	10	807		PIL			51.95	.47			.37	9.98	25.72	11.65	.03	.25		0.00	.05			100.47
NL-RCH-03A	-32+80HIL	7724	10	914		PIL			54.66	.55			1.23	6.16	23.16	14.46	.02	.26		.07	.09			100.65
NL-RCH-03A	-32+80HIL	7724	11	101		PIL			49.67	.28			4.60	9.24	24.06	11.54	.02	.26		.01	.24			99.93
NL-RCH-03A	-32+80HIL	7724	11	102		PIL			49.94	.28			4.62	9.06	24.08	11.63	.02	.24		0.00	.15			100.02
NL-RCH-03A	-32+80HIL	7724	11	103		PIL			52.07	.32			.45	9.60	26.15	11.47	.04	.27		.03	.09			100.49
NL-RCH-03A	-32+80HIL	7724	11	108		PIL			49.32	.21			1.23	12.28	26.86	9.71	.02	.28		0.00	.10			100.00
NL-RCH-03A	-32+80HIL	7724	11	209		PIL			47.66	.33			.35	14.59	28.55	7.92	.00	.26		0.00	.06			99.72
NL-RCH-03A	-32+80HIL	7724	11	213		PIL			50.84	.24			.84	10.83	25.40	11.37	.01	.28		0.00	.22			100.03
NL-RCH-03A	-32+80HIL	7724	20	104		PIL			49.54	.21			.94	11.84	28.06	9.22	.00	.28		.01	.21			100.31
NL-RCH-03A	-32+80HIL	7724	20	106		PIL			50.73	.26			.99	10.74	26.56	10.61	.00	.28		0.00	.13			100.31
NL-RCH-03A	-32+80HIL	7724	20	107		PIL			43.74	.14			.99	20.37	28.34	6.13	.01	.27		.05	.24			100.28
NL-RCH-03A	-32+80HIL	7724	20	109		PIL			51.66	.48			.85	9.98	24.61	12.15	.02	.31		.04	.16			100.27

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp															Trace				
				Grain	SA	CFM	DI	M	C	T (Zn)	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Na2O	K2O
									wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
NL-RCH-03A	-32+80HIL	7724	20	111		PIL				51.00	.24			.87	10.13	27.11	10.45	.02	.29		.02	.18				100.30
NL-RCH-03A	-32+80HIL	7724	20	114		PIL				52.17	.35			.49	9.06	26.61	11.30	.02	.28		0.00	.13				100.42
NL-RCH-03A	-32+80HIL	7724	20	203		PIL				49.23	.21			.95	11.89	27.83	9.21	.01	.26		0.00	.23				99.83
NL-RCH-03A	-32+80HIL	7724	20	308		PIL				52.02	.34			.48	9.49	26.19	11.43	.02	.28		0.00	.09				100.34
NL-RCH-03A	-32+80HIL	7724	20	401		PIL				51.54	.25			.81	10.36	25.23	11.74	.02	.28		.03	.13				100.39
NL-RCH-03A	-32+80HIL	7724	20	610		PIL				50.84	.33			1.22	10.49	26.27	10.81	.03	.25		.01	.10				100.34
NL-RCH-03A	-32+80HIL	7724	20	613		PIL				52.12	.37			.52	9.48	26.07	11.55	.04	.25		.05	.13				100.57
NL-RCH-03A	-32+80HIL	7724	20	703		PIL				49.31	.19			1.00	12.71	27.65	9.27	.01	.34		0.00	.16				100.64
NL-RCH-03A	-32+80HIL	7724	20	705		PIL				52.21	.40			.90	9.08	26.10	11.60	.03	.26		0.00	.11				100.69
NL-RCH-03A	-32+80HIL	7724	20	803		PIL				54.94	.48			.41	6.59	22.35	15.07	.04	.44		.00	.29				100.62
NL-RCH-03A	-32+80HIL	7724	21	205		PIL				49.37	.18			.95	12.20	27.80	9.24	.01	.27		.03	.17				100.22
NL-RCH-03A	-32+80HIL	7724	21	706		PIL				51.16	.36			1.05	10.32	26.01	11.11	.02	.27		.01	.11				100.42
NL-RCH-03A	-32+80HIL	7724	21	707		PIL				52.52	.52			.79	8.78	25.50	12.06	.03	.27		0.00	.07				100.55
NL-RCH-03A	-32+80HIL	7724	30	411		PIL				50.91	.27			.97	10.55	26.65	10.63	.00	.29		0.00	.09				100.37
NL-RCH-03A	-32+80HIL	7724	30	414		PIL				50.89	.23			.83	10.46	26.92	10.42	.01	.29		.03	.05				100.13
NL-RCH-03A	-32+80HIL	7724	30	712		PIL				53.52	.38			1.60	6.72	24.20	13.38	.02	.29		0.00	.22				100.32
NL-RCH-03A	-32+80HIL	7724	31	203		PIL				50.95	.26			.74	10.60	26.85	10.54	.02	.28		0.00	.11				100.36
NL-RCH-03A	-32+80HIL	7724	31	208		PIL				51.22	.29			1.32	9.70	26.66	10.77	.02	.27		.01	.08				100.34
NL-RCH-03A	-32+80HIL	7724	31	404		PIL				52.81	.47			.32	8.76	25.58	12.17	.02	.29		.01	.08				100.50
NL-RCH-03A	-32+80HIL	7724	31	408		PIL				51.14	.26			.88	10.54	26.89	10.64	.02	.30		0.00	.16				100.82
NL-RCH-03A	-32+80HIL	7724	31	501		PIL				49.63	.28			4.58	9.78	23.82	11.57	.01	.30		.01	.11				100.08
NL-RCH-03A	-32+80HIL	7724	31	502		PIL				51.00	.31			1.12	10.58	26.70	10.68	.02	.25		.03	.16				100.86
NL-RCH-03A	-32+80HIL	7724	31	610		PIL				49.31	.18			.97	12.55	27.67	9.30	.01	.29		.04	.22				100.54
NL-RCH-03A	-32+80HIL	7724	40	109		PIL				49.88	.29			4.50	9.16	24.06	11.56	.02	.28		.00	.10				99.86
NL-RCH-03A	-32+80HIL	7724	40	610		PIL				51.74	.33			.74	10.39	24.10	12.47	.02	.25		.06	.11				100.20
NL-RCH-03A	-32+80HIL	7724	41	104		PIL				51.42	.26			.84	9.75	27.28	10.54	.01	.30		0.00	.12				100.51
NL-RCH-03A	-32+80HIL	7724	41	109		PIL				49.99	.22			.88	11.53	27.23	9.83	.01	.31		.07	.15				100.22
NL-RCH-03A	-32+80HIL	7724	41	206		PIL				52.54	.43			.79	8.32	26.13	11.75	.01	.27		0.00	.09				100.32
NL-RCH-03A	-32+80HIL	7724	41	217		PIL				50.75	.21			2.60	8.25	26.09	10.91	.01	.33		0.00	.22				99.37
NL-RCH-03A	-32+80HIL	7724	41	218		PIL				52.42	.45			.48	8.83	25.70	11.84	.04	.26		.02	.01				100.07
NL-RCH-03A	-32+80HIL	7724	41	310		PIL				49.47	.18			.90	11.89	27.82	9.27	.02	.29		0.00	.16				99.99
NL-RCH-03A	-32+80HIL	7724	41	706		PIL				53.90	.42			1.56	6.06	24.72	13.31	.02	.25		0.00	.22				100.45
NL-RCH-03A	-32+80HIL	7724	41	709		PIL				49.17	.21			.92	12.37	27.35	9.43	.00	.31		0.00	.23				99.99
NL-RCH-03A	-32+80HIL	7724	41	711		PIL				49.82	.16			1.80	11.12	27.34	9.67	.01	.34		.02	.14				100.42
NL-RCH-03A	-32+80HIL	7724	41	712		PIL				52.35	.34			.46	9.19	26.82	11.22	.04	.27		.03	.08				100.80
NL-RCH-03A	-32+80HIL	7724	41	713		PIL				52.07	.34			.45	9.90	26.21	11.44	.03	.27		0.00	.06				100.76
NL-RCH-03A	-32+80HIL	7724	41	714		PIL				49.82	.27			4.61	10.05	23.88	11.60	.01	.30		.03	.08				100.64
NL-RCH-03A	-32+80HPY	7683	11	401		CR	-	L L	618	.01	.07	13.41	.23	52.49	6.13	15.61	11.76	.00	.40	.07	.27					100.46
NL-RCH-03A	-32+80HIL	7683	20	506		CR	-	L K	1318	.11	.61	8.60	.12	57.26	6.42	11.26	14.40	.01	.26	.18	.04					99.25
NL-RCH-03A	-32+80HIL	7683	20	515		CR	-	K L	1001+	.03	1.32	14.14	.26	47.38	8.04	16.77	11.92	.01	.30	.16	.08					100.40

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp																Trace		
				Grain	SA	CFM	DI	M	C T(Zn)	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Na2O	K2O
									wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
NL-RCH-03A	-32+80HPY	7683	10	507	OLV-FORS	DI			41.73	0.00	.01		.05	6.31	50.73	.03	.10	.36			.02		.01	99.34	
NL-RCH-03A	-32+80HPY	7683	10	508	OLV-FORS	DI			41.81	.02	.01		.01	6.65	50.50	.02	.12	.29			.00		.01	99.45	
NL-RCH-03A	-32+80HPY	7699	11	302	OLV-FORS	DI			41.62	0.00	0.00		0.00	6.54	51.36	.02	.10	.36			.01		.00	100.01	
NL-RCH-03A	-32+80HPY	7699	11	403	OLV-FORS	DI			41.42	.00	.00		0.00	7.26	50.90	.02	.11	.32			.02		.00	100.06	
NL-RCH-03A	-32+80HPY	7683	10	408	OLV-FORS	DI*			42.05	0.00	.01		.00	5.93	52.00	.00	.08	.38			.01		.00	100.46	
NL-RCH-03A	-32+80HPY	7683	10	411	OLV-FORS	DI*			41.84	.01	.01		0.00	6.66	50.74	.01	.10	.33			.01		0.00	99.71	
NL-RCH-03A	-32+80HPY	7683	10	502	OLV-FORS	DI*			41.75	.01	.01		.01	6.50	51.63	.02	.07	.30			.01		0.00	100.31	
NL-RCH-03A	-32+80HPY	7683	10	511	OLV-FORS	DI*			41.88	.02	.01		.01	6.24	51.64	.00	.10	.37			0.00		.01	100.27	
NL-RCH-03A	-32+80HPY	7683	10	603	OLV-FORS	DI*			41.81	.00	0.00		.06	6.55	51.62	.03	.10	.33			.00		.01	100.52	
NL-RCH-03A	-32+80HPY	7683	10	606	OLV-FORS	DI*			41.43	.01	0.00		0.00	7.88	50.52	.02	.13	.31			.01		0.00	100.31	
NL-RCH-03A	-32+80HPY	7699	11	210	OLV-FORS	DI*			41.61	.00	.01		.01	5.94	51.78	.00	.06	.33			.01		0.00	99.76	
NL-RCH-03A	-32+80HPY	7699	11	216	OLV-FORS	DI*			41.80	.02	.01		.03	6.09	52.04	.02	.10	.38			.01		0.00	100.50	
NL-RCH-03A	-32+80HPY	7699	11	404	OLV-FORS	DI*			41.23	.01	0.00		.02	6.98	51.56	.02	.10	.37			.01		.00	100.30	
NL-RCH-03A	-32+80HPY	7699	11	405	OLV-FORS	DI*			41.56	.00	0.00		0.00	6.01	51.99	.01	.08	.40			0.00		0.00	100.05	
NL-RCH-03A	-32+80HIL	7723	40	413	CR	TI	K K	1007+	.02	2.90	8.82	.33	51.19	7.43	17.44	11.87	.02	.36	.10	.07				100.55	
NL-RCH-03A	-32+80HIL	7724	11	214	CR	TI	K K	914	.03	1.20	2.24	.26	61.51	6.73	18.51	9.47	0.00	.48	.10	.09				100.63	
NL-RCH-03A	-32+80HIL	7724	41	301	CR	TI	K K	712	.01	1.80	2.41	.64	55.71	10.96	18.83	9.52	.00	.45	.14	.18				100.66	
NL-RCH-03A	-32+80HPY	7683	10	711	CE	CPX	-		53.69	.04	.94		.25	4.51	15.15	24.43	.16	.02			.60		.00	99.81	
NL-RCH-03A	-32+80HPY	7683	11	104	CE	CPX	-		54.38	.02	.63		.18	3.64	15.98	24.54	.14	.04			.56		.00	100.10	
NL-RCH-03A	-32+80HPY	7719	11	605	CE	CP2	G2		53.98	.02	1.23		.08	5.95	13.90	23.46	.21	0.00			1.02		.01	99.87	
NL-RCH-03A	-32+80HPY	7683	10	904	CP	CP2	-	--	53.80	.36	.70		.78	5.99	18.18	19.67	.17	.09			.45		0.00	100.18	
NL-RCH-03A	-32+80HPY	7683	10	908	CP	CP2	-	--	53.62	.39	.88		.77	6.25	17.12	19.64	.15	.06			.53		0.00	99.41	
NL-RCH-03A	-32+80HPY	7683	10	914	CP	CP2	-	--	53.78	.41	.91		.92	5.73	17.41	20.29	.15	.07			.57		.01	100.24	
NL-RCH-03A	-32+80HPY	7683	11	314	CP	CP2	-	--	53.85	.38	.85		.87	5.79	17.54	20.14	.16	.07			.53		.01	100.19	
NL-RCH-03A	-32+80HPY	7719	11	103	CP	CP2	-	--	53.71	.37	.89		.95	5.78	16.93	20.30	.14	.06			.48		0.00	99.61	
NL-RCH-03A	-32+80HPY	7719	11	108	CP	CP2	-	--	53.80	.35	.87		1.02	5.67	16.91	20.09	.15	.06			.52		.00	99.43	
NL-RCH-03A	-32+80HPY	7719	11	203	CP	CP2	-	--	53.78	.31	.91		1.10	5.57	17.30	19.94	.12	.04			.54		.00	99.61	
NL-RCH-03A	-32+80HPY	7719	11	206	CP	CP2	-	--	53.64	.27	1.04		1.13	5.15	16.71	20.87	.13	.05			.54		.01	99.55	
NL-RCH-03A	-32+80HPY	7719	11	211	CP	CP2	-	--	53.64	.35	.98		.99	5.93	17.51	19.56	.15	.07			.55		0.00	99.75	
NL-RCH-03A	-32+80HPY	7719	11	403	CP	CP2	-	--	53.89	.29	.88		1.05	5.59	17.24	19.85	.16	.06			.50		0.00	99.51	
NL-RCH-03A	-32+80HPY	7719	11	505	CP	CP2	-	--	53.53	.38	.96		1.02	5.76	17.23	20.06	.15	.06			.52		.00	99.67	
NL-RCH-03A	-32+80HPY	7719	11	610	CP	CP2	-	--	53.79	.32	.93		1.13	5.73	17.56	19.03	.15	.08			.53		.01	99.26	
NL-RCH-03A	-32+80HPY	7719	11	614	CP	CP2	-	--	53.71	.33	.96		1.25	5.71	17.34	19.59	.16	.07			.54		.00	99.66	
NL-RCH-03A	-32+80HIL	7723	30	702	CP	CP2	-	--	53.85	.20	1.04		.85	4.64	17.40	21.34	.12	.04			.23		.01	99.71	
NL-RCH-03A	-32+80HIL	7724	41	107	CP	CP2	-	--	53.89	.30	.66		.93	5.91	18.02	18.84	.18	.06			.42		.00	99.21	
NL-RCH-03A	-32+80HIL	7724	41	108	CP	CP2	-	--	53.66	.35	.89		.92	6.20	17.18	19.34	.18	.10			.48		.00	99.31	
NL-RCH-03A	-32+80HIL	7724	41	408	CP	CP2	-	--	53.49	.28	1.11		1.02	5.14	16.47	21.00	.14	.09			.48		0.00	99.23	
NL-RCH-03A	-32+80HIL	7724	41	409	CP	CP2	-	--	53.62	.27	1.01		1.06	5.28	16.70	20.69	.11	.07			.50		.01	99.32	
NL-RCH-03A	-32+80HPY	7683	11	210	CP	CP5	-	--	53.47	.18	1.21		.76	2.81	16.47	24.00	.09	.06			.33		.00	99.36	
NL-RCH-03A	-32+80HPY	7683	11	306	CP	CP5	-	--	53.81	.20	1.31		.79	3.13	16.59	23.39	.08	.03			.35		.01	99.67	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																			
					SA	CFM	DI	M	C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %		
NL-RCH-03A	-32+80HPY	7699	20	518	CP	CP5	-	--			54.93	.07	.30		1.12	2.43	16.26	23.04	.08	.02							1.18	.01	99.44
NL-RCH-03A	-32+80HPY	7699	20	908	CP	CP5	-	--			54.98	.06	.40		1.92	2.37	16.01	22.28	.07	.05							1.62	.01	99.77
NL-RCH-03A	-32+80HPY	7719	10	905	CP	CP5	-	--			55.28	.06	.33		1.63	2.23	15.98	22.52	.07	.00							1.41	.01	99.52
NL-RCH-03A	-32+80HPY	7699	20	308	CP	CP6	-	--			53.95	.05	.92		1.16	3.76	15.51	23.07	.16	.10							.87	.00	99.55
NL-RCH-03A	-32+80HPY	7683	10	708	CP	CPX	-	--			54.31	.00	.60		.64	4.01	15.43	23.88	.14	0.00							.98	0.00	100.00
NL-RCH-03A	-32+80HPY	7683	11	116	CP	CPX	-	--			52.18	.10	1.71		.75	7.67	12.57	24.12	.38	.00							.40	0.00	99.87
NL-RCH-03A	-32+80HPY	7683	11	201	CP	CPX	-	--			53.19	.42	1.08		1.09	6.11	17.03	19.95	.16	.05							.59	.00	99.68
NL-RCH-03A	-32+80HPY	7683	11	204	CP	CPX	-	--			52.22	.29	4.65		1.44	4.29	15.66	19.85	.10	.02							1.52	.01	100.05
NL-RCH-03A	-32+80HPY	7699	20	513	CP	CPX	-	--			53.24	.33	1.25		1.36	5.07	16.65	20.76	.13	.07							.58	.01	99.45
NL-RCH-03A	-32+80HPY	7719	11	106	CP	CPX	-	--			53.25	.36	1.18		1.09	5.36	16.19	21.15	.14	.08							.53	.00	99.32
NL-RCH-03A	-32+80HPY	7719	11	111	CP	CPX	-	--			53.45	.37	1.20		.97	6.44	17.04	18.98	.21	.08							.52	.01	99.27
NL-RCH-03A	-32+80HPY	7719	11	408	CP	CPX	-	--			53.25	.30	1.32		1.00	5.58	16.32	20.68	.14	.06							.56	0.00	99.20
NL-RCH-03A	-32+80HPY	7719	11	509	CP	CPX	-	--			53.31	.33	1.20		1.36	5.18	16.81	20.72	.11	.08							.59	0.00	99.69
NL-RCH-03A	-32+80HIL	7724	11	205	CP	CPX	-	--			52.94	.42	1.39		1.10	5.46	16.11	21.01	.11	.05							.59	.00	99.18
NL-RCH-03A	-32+80HIL	7724	11	206	CP	CPX	-	--			53.41	.36	1.14		1.14	4.89	16.84	20.83	.11	.06							.44	.01	99.23
NL-RCH-03A	-32+80HPY	7683	10	804	CP	CP2	-	Diam			53.99	.27	.81		1.10	5.69	18.25	18.84	.16	.05							.56	0.00	99.72
NL-RCH-03A	-32+80HPY	7719	11	314	CP	CP2	-	Diam			53.77	.30	.93		1.09	5.70	17.68	19.23	.13	.07							.55	0.00	99.45
NL-RCH-03A	-32+80HIL	7724	41	410	CP	CP2	-	Diam			54.15	.28	.84		1.08	5.52	17.79	19.64	.13	.05							.49	.00	99.97
NL-RCH-03A	-32+80HPY	7683	11	304	CP	CP2	-	Diam+			53.76	.33	.76		.93	5.72	18.03	19.75	.15	.07							.51	.01	100.03
NL-RCH-03A	-32+80HPY	7719	11	607	CP	CP2	-	Diam+			54.08	.28	.71		.92	5.90	18.32	18.57	.16	.05							.48	.00	99.48
NL-RCH-03A	-32+80HPY	7683	10	808	CP	CP2	-	Diam-			53.64	.40	1.03		1.24	5.57	17.69	19.53	.16	.06							.56	.01	99.89
NL-RCH-03A	-32+80HIL	7724	41	406	CP	CP2	-	Diam-			53.80	.33	.95		1.42	5.73	17.94	18.42	.15	.07							.48	0.00	99.30
NL-RCH-03A	-32+80HPY	7719	11	412	CP	CP5	-	Diam-			54.56	.22	2.31		1.65	2.64	16.13	19.51	.10	.04							1.84	.03	99.01
NL-RCH-03A	-32+80HPY	7719	11	410	CP	CPX	-	Diam-			53.46	.37	.97		1.19	5.66	17.61	19.72	.14	.11							.51	.01	99.74
NL-RCH-03A	-32+80HPY	7719	11	415	CP	CPX	-	Diam-			53.45	.37	.99		1.22	5.50	17.93	19.53	.16	.06							.59	.01	99.80
NL-RCH-03A	-32+80HPY	7683	10	911	CP	CP2	-	Gr			53.51	.21	1.01		.73	4.82	17.92	21.17	.12	.06							.29	.01	99.85
NL-RCH-03A	-32+80HPY	7683	11	310	CP	CP2	-	Gr			53.57	.23	1.10		.79	5.45	17.77	20.90	.15	.07							.29	.00	100.33
NL-RCH-03A	-32+80HIL	7719	21	511	CP	CP2	-	Gr			53.50	.34	1.39		1.13	5.71	16.96	19.96	.13	.07							.50	.00	99.70
NL-RCH-03A	-32+80HIL	7724	11	207	CP	CP2	-	Gr			53.83	.27	1.17		.88	5.45	18.13	19.15	.16	.08							.41	0.00	99.53
NL-RCH-03A	-32+80HPY	7699	20	703	CP	CP5	-	Gr			53.17	.07	2.85		2.04	3.27	17.80	19.00	.09	.05							1.02	.00	99.36
NL-RCH-03A	-32+80HPY	7699	20	806	CP	CP5	-	Gr			52.75	.24	3.59		.93	3.19	16.88	21.80	.08	.03							.61	.00	100.10
NL-RCH-03A	-32+80HPY	7699	20	914	CP	CP5	-	Gr			54.90	.01	3.63		2.60	1.32	14.32	19.72	.04	.05							2.97	.00	99.56
NL-RCH-03A	-32+80HPY	7719	10	814	CP	CP5	-	Gr			54.85	0.00	2.85		2.37	1.48	14.82	20.78	.07	.02							2.41	.00	99.64
NL-RCH-03A	-32+80HIL	7723	30	701	CP	CP5	-	Gr			54.54	.18	2.51		1.93	1.65	15.47	21.27	.08	.01							2.02	.00	99.66
NL-RCH-03A	-32+80HPY	7683	10	810	CP	CPX	-	Gr			51.94	.18	2.99		1.04	4.54	16.31	22.04	.15	.03							.27	0.00	99.48
NL-RCH-03A	-32+80HPY	7699	21	101	CP	CPX	-	Gr			52.57	.07	2.36		.93	3.33	17.13	21.94	.15	.04							.16	0.00	98.69
NL-RCH-03A	-32+80HPY	7719	11	210	CP	CPX	-	Gr			52.85	.35	1.48		.93	7.03	17.25	17.96	.16	.06							.61	.05	98.72
NL-RCH-03A	-32+80HPY	7719	11	317	CP	CPX	-	Gr			51.95	.29	3.39		1.19	5.51	17.18	19.66	.13	.04							.31	0.00	99.63
NL-RCH-03A	-32+80HPY	7683	11	110	CP	CP5	-	DI/G2	--		54.97	0.00	3.64		2.74	1.35	14.83	19.72	.05	.01							3.28	.01	100.59
NL-RCH-03A	-32+80HPY	7699	21	108	CP	CP5	-	G2	Gr		54.78	.00	3.68		2.71	1.26	14.24	19.68	.06	.04							3.07	.01	99.54

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification				Rock/Temp															Trace				
				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 %
NL-RCH-03A	-32+80HPY	7719	10	813	CP	CP5	G2	Gr			55.05	.00	3.62		2.67		1.31	14.46	19.60	.05	.04				3.11	.00	99.89
NL-RCH-03A	-32+80HPY	7719	10	904	CP	CP5	G2	Gr			55.30	0.00	3.61		2.67		1.33	14.16	19.65	.06	.06				3.04	.01	99.88
NL-RCH-03A	-32+80HPY	7683	20	808	CP	CP5	G2*	Gr			54.75	.02	3.71		2.71		1.35	14.23	19.70	.04	.02				3.15	.00	99.69
NL-RCH-03A	-32+80HPY	7699	20	615	CP	CP5	G2*	Gr			54.72	.01	3.67		2.65		1.31	14.25	19.51	.06	.03				3.13	.01	99.34
NL-RCH-03A	-32+80HPY	7719	11	601	CP	CP5	G2/DI	Gr			55.24	.00	3.66		2.65		1.39	14.06	19.53	.09	.02				3.11	.01	99.76
NL-RCH-03A	-32+80HPY	7683	10	201	E	G 3	HPM				40.81	.10	22.39		1.82		14.24	15.60	4.97	.50	.00			.030	.00	100.45	
NL-RCH-03A	-32+80HPY	7699	11	116	E	G 9	HPM*				41.69	.25	23.62		.51		9.66	19.83	4.63	.38	0.00			.041	0.00	100.59	
NL-RCH-03A	-32+80HPY	7699	11	613	E	G 9	HPM*				41.56	.54	22.24		1.41		10.21	18.28	5.08	.37	.01			.049	0.00	99.75	
NL-RCH-03A	-32+80HPY	7683	10	403	E	G 5	REG				38.54	.04	22.01		.05		25.28	7.38	6.08	1.09	0.00			.032	0.00	100.48	
NL-RCH-03A	-32+80HPY	7683	20	802	E	G 5	REG				39.56	.04	22.46		.06		23.71	10.36	4.04	.50	0.00			.017	0.00	100.74	
NL-RCH-03A	-32+80HPY	7683	10	402	E	G 5	REG*				38.59	.07	22.06		.08		25.19	7.47	6.21	1.02	.02			.004	.01	100.72	
NL-RCH-03A	-32+80HPY	7683	10	102	P	G 9					41.98	.64	20.63		3.93		6.94	20.01	5.36	.27	0.00			.05	.00	99.83	
NL-RCH-03A	-32+80HPY	7683	10	103	P	G 9					41.68	.03	21.30		3.91		7.93	18.91	5.72	.49	.00			.02	.00	100.01	
NL-RCH-03A	-32+80HPY	7683	10	104	P	G 9					41.85	.60	20.22		4.22		6.96	19.81	5.45	.29	.02			.05	.00	99.47	
NL-RCH-03A	-32+80HPY	7683	10	108	P	G 9					41.92	.60	20.29		4.22		7.09	19.95	5.48	.29	.01			.05	.01	99.91	
NL-RCH-03A	-32+80HPY	7683	10	109	P	G 9					41.79	.65	20.59		3.66		7.10	20.08	5.34	.31	0.00			.05	.01	99.59	
NL-RCH-03A	-32+80HPY	7683	10	110	P	G 9					41.95	.64	20.65		3.74		7.11	19.92	5.38	.29	.02			.04	.00	99.74	
NL-RCH-03A	-32+80HPY	7683	10	111	P	G 9					41.94	.61	20.18		4.18		7.05	19.63	5.43	.29	.01			.04	.00	99.37	
NL-RCH-03A	-32+80HPY	7683	10	112	P	G 9					41.48	0.00	20.74		4.47		7.93	17.87	6.60	.49	0.00			.02	.00	99.59	
NL-RCH-03A	-32+80HPY	7683	10	203	P	G 9					41.83	.63	20.47		3.78		7.02	20.65	5.36	.31	.02			.06	.00	100.12	
NL-RCH-03A	-32+80HPY	7683	10	204	P	G 9					41.87	.60	19.96		4.25		7.01	20.38	5.48	.28	.01			.04	.01	99.89	
NL-RCH-03A	-32+80HPY	7683	10	205	P	G 9					41.93	.59	20.15		4.17		6.95	20.18	5.49	.31	.04			.04	0.00	99.85	
NL-RCH-03A	-32+80HPY	7683	10	213	P	G 9					42.02	.61	20.58		4.02		6.99	20.04	5.39	.29	0.00			.06	.01	100.01	
NL-RCH-03A	-32+80HPY	7683	10	214	P	G 9					41.83	.01	21.16		4.03		7.44	19.62	5.44	.50	0.00			.02	0.00	100.05	
NL-RCH-03A	-32+80HPY	7683	10	305	P	G 9					41.75	.60	20.17		4.43		7.11	19.77	5.50	.31	.00			.05	.00	99.71	
NL-RCH-03A	-32+80HPY	7683	10	307	P	G 9					42.16	.65	20.48		3.92		7.14	19.97	5.41	.31	.02			.05	.00	100.11	
NL-RCH-03A	-32+80HPY	7683	10	310	P	G 9					41.83	.65	20.48		3.95		7.08	20.08	5.45	.29	.06			.06	0.00	99.93	
NL-RCH-03A	-32+80HPY	7683	10	314	P	G 9					41.96	.66	20.46		3.83		7.02	19.87	5.41	.31	.02			.05	0.00	99.58	
NL-RCH-03A	-32+80HPY	7699	11	501	P	G 9					41.77	.59	20.54		3.76		6.97	19.86	5.32	.31	0.00			.03	.01	99.16	
NL-RCH-03A	-32+80HPY	7699	11	503	P	G 9					41.85	.59	21.81		2.35		9.19	19.10	5.13	.38	0.00			.04	0.00	100.43	
NL-RCH-03A	-32+80HPY	7699	11	514	P	G 9					41.76	.61	20.49		3.98		6.90	20.20	5.39	.27	.01			.04	.02	99.67	
NL-RCH-03A	-32+80HPY	7699	11	601	P	G 9					41.86	.57	20.15		4.28		7.00	20.44	5.48	.27	.01			.07	0.00	100.14	
NL-RCH-03A	-32+80HPY	7699	11	602	P	G 9					41.63	.57	20.11		4.43		7.14	19.67	5.50	.29	.02			.05	.00	99.41	
NL-RCH-03A	-32+80HPY	7699	11	607	P	G 9					41.77	.58	20.63		3.83		7.08	20.01	5.37	.28	.00			.05	0.00	99.61	
NL-RCH-03A	-32+80HPY	7699	11	611	P	G 9					42.07	.61	20.35		4.02		6.86	20.49	5.41	.29	0.00			.06	.00	100.17	
NL-RCH-03A	-32+80HPY	7699	11	615	P	G 9					42.03	.67	20.99		3.44		7.20	20.38	5.23	.27	.01			.02	.00	100.26	
NL-RCH-03A	-32+80HPY	7699	11	616	P	G 9					41.50	.56	20.10		4.31		7.02	19.88	5.47	.31	.01			.06	.01	99.22	
NL-RCH-03A	-32+80HPY	7699	20	106	P	G 9					41.83	.59	20.16		4.01		6.97	20.74	5.41	.26	.02			.07	0.00	100.06	
NL-RCH-03A	-32+80HPY	7699	20	107	P	G 9					42.11	.61	20.59		3.79		7.00	20.72	5.32	.26	0.00			.06	.00	100.47	
NL-RCH-03A	-32+80HPY	7699	20	108	P	G 9					41.79	.56	20.35		4.12		6.99	20.07	5.51	.30	.02			.05	.01	99.75	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp														Trace					
					SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
NL-RCH-03A	-32+80HPY	7699	20	109	P	G	9			42.13	.00	21.85		3.73		7.04	19.84	5.31	.39	.01					.03	.00	100.32
NL-RCH-03A	-32+80HPY	7699	20	111	P	G	9			41.70	.61	20.60		3.83		7.00	20.09	5.39	.29	.03					.07	.01	99.64
NL-RCH-03A	-32+80HPY	7699	20	112	P	G	9			41.88	.58	20.54		3.98		7.07	20.08	5.41	.27	.01					.03	0.00	99.85
NL-RCH-03A	-32+80HPY	7699	20	114	P	G	9			41.91	.60	20.42		4.03		6.97	20.10	5.40	.29	.01					.04	.00	99.77
NL-RCH-03A	-32+80HPY	7699	20	115	P	G	9			42.05	.55	20.02		4.46		7.15	19.94	5.57	.29	.04					.03	.00	100.10
NL-RCH-03A	-32+80HPY	7699	20	116	P	G	9			42.17	.67	20.60		3.85		7.14	20.34	5.38	.29	.06					.03	.00	100.53
NL-RCH-03A	-32+80HPY	7699	20	201	P	G	9			41.85	.56	20.19		4.24		7.26	19.94	5.50	.30	.03					.04	.00	99.90
NL-RCH-03A	-32+80HPY	7699	20	202	P	G	9			42.13	.64	20.48		3.89		7.11	20.04	5.43	.30	.06					.04	0.00	100.12
NL-RCH-03A	-32+80HPY	7699	20	203	P	G	9			41.58	.86	21.30		2.39		7.36	19.94	5.64	.27	.02					.03	.01	99.39
NL-RCH-03A	-32+80HPY	7699	20	204	P	G	9			41.74	.63	20.35		4.05		7.05	20.00	5.44	.31	.04					.04	0.00	99.66
NL-RCH-03A	-32+80HPY	7699	20	211	P	G	9			41.72	.69	20.91		3.47		6.93	20.43	5.33	.29	0.00					.06	.00	99.84
NL-RCH-03A	-32+80HPY	7699	20	212	P	G	9			41.99	.59	20.22		4.02		7.06	20.24	5.42	.30	.01					.03	.00	99.89
NL-RCH-03A	-32+80HPY	7699	20	214	P	G	9			41.74	.62	20.74		3.71		7.01	20.16	5.40	.28	.02					.06	0.00	99.75
NL-RCH-03A	-32+80HPY	7699	20	215	P	G	9			41.67	.87	21.38		2.35		7.66	19.58	5.77	.28	.02					.05	.00	99.63
NL-RCH-03A	-32+80HPY	7699	20	216	P	G	9			42.17	.61	20.77		3.78		6.96	20.26	5.32	.27	.03					.04	0.00	100.21
NL-RCH-03A	-32+80HPY	7699	20	217	P	G	9			42.11	0.00	22.39		2.55		8.49	19.11	5.57	.65	.01					.01	.01	100.89
NL-RCH-03A	-32+80HPY	7699	20	301	P	G	9			42.04	.60	20.15		4.13		7.02	20.86	5.45	.29	.00					.06	0.00	100.60
NL-RCH-03A	-32+80HPY	7719	10	104	P	G	9			41.72	.55	20.14		4.19		6.93	20.79	5.45	.29	0.00					.04	.00	100.11
NL-RCH-03A	-32+80HPY	7719	10	202	P	G	9			41.76	.59	20.36		3.98		6.92	20.38	5.37	.28	0.00					.05	0.00	99.67
NL-RCH-03A	-32+80HPY	7719	10	209	P	G	9			41.69	.55	20.28		4.22		6.98	20.29	5.47	.31	0.00					.03	0.00	99.83
NL-RCH-03A	-32+80HPY	7719	10	306	P	G	9			41.86	.56	20.31		4.33		7.07	20.13	5.47	.31	.00					.05	.01	100.10
NL-RCH-03A	-32+80HPY	7719	10	404	P	G	9			41.87	.54	20.19		4.28		6.96	20.14	5.50	.30	.01					.03	0.00	99.81
NL-RCH-03A	-32+80HPY	7719	10	408	P	G	9			41.61	.00	20.99		4.50		7.35	19.67	5.62	.40	.04					.03	0.00	100.21
NL-RCH-03A	-32+80HPY	7719	10	602	P	G	9			41.91	.54	20.19		3.98		7.11	20.53	5.39	.31	.01					.03	0.00	100.00
NL-RCH-03A	-32+80HPY	7719	10	611	P	G	9			41.99	.60	20.51		3.90		7.07	20.36	5.41	.30	0.00					.05	.00	100.19
NL-RCH-03A	-32+80HPY	7719	10	618	P	G	9			41.99	.55	20.14		4.28		6.97	20.25	5.48	.31	.02					.05	.00	100.05
NL-RCH-03A	-32+80HPY	7683	10	101	P	G	9-1			41.90	.26	21.86		2.79		7.73	20.04	4.90	.37	0.00					.04	.00	99.91
NL-RCH-03A	-32+80HPY	7683	10	106	P	G	9-1			41.90	.04	21.40		3.77		7.51	19.80	5.02	.45	.03					.00	.01	99.94
NL-RCH-03A	-32+80HPY	7683	10	114	P	G	9-1			42.00	.08	22.62		2.35		8.09	19.89	4.75	.46	0.00					.01	0.00	100.24
NL-RCH-03A	-32+80HPY	7683	10	207	P	G	9-1			41.86	.26	21.13		4.04		7.54	19.98	5.06	.39	.00					.05	0.00	100.31
NL-RCH-03A	-32+80HPY	7683	10	209	P	G	9-1			41.85	0.00	20.83		4.55		7.30	19.87	5.31	.43	.01					.02	.00	100.18
NL-RCH-03A	-32+80HPY	7683	10	210	P	G	9-1			42.00	.58	20.40		3.93		7.05	20.47	5.34	.30	0.00					.03	0.00	100.09
NL-RCH-03A	-32+80HPY	7683	10	211	P	G	9-1			41.86	.28	21.96		2.68		7.66	19.80	4.92	.37	.02					.04	.01	99.61
NL-RCH-03A	-32+80HPY	7683	10	212	P	G	9-1			41.84	.58	19.90		4.38		6.95	20.32	5.48	.30	.00					.05	.00	99.81
NL-RCH-03A	-32+80HPY	7683	10	301	P	G	9-1			41.52	.43	20.37		4.06		8.63	19.17	5.33	.44	0.00					.03	0.00	99.98
NL-RCH-03A	-32+80HPY	7683	10	302	P	G	9-1			42.06	.62	20.45		3.94		7.09	20.12	5.34	.30	.00					.06	.00	99.98
NL-RCH-03A	-32+80HPY	7683	10	304	P	G	9-1			42.25	.28	22.15		2.66		7.82	19.76	4.90	.37	.00					.03	.03	100.27
NL-RCH-03A	-32+80HPY	7683	10	308	P	G	9-1			41.78	.26	21.90		2.73		7.89	20.48	4.81	.37	.05					.04	.01	100.30
NL-RCH-03A	-32+80HPY	7683	10	312	P	G	9-1			41.92	.01	21.09		4.24		7.77	19.99	4.47	.51	.01					.02	.00	100.03
NL-RCH-03A	-32+80HPY	7699	11	502	P	G	9-1			42.09	.59	20.46		3.99		7.00	20.53	5.35	.27	0.00					.04	0.00	100.32

Comment:

										SiO2											
										wt %											
NL-RCH-03A	-32+80HPY	7699	11	509	P	G	9-1	42.01	.58	20.22	4.55	7.01	20.47	5.44	.30	.02	.04	0.00	100.62		
NL-RCH-03A	-32+80HPY	7699	11	510	P	G	9-1	41.88	.56	20.08	4.33	7.00	20.62	5.43	.30	0.00	.04	.00	100.24		
NL-RCH-03A	-32+80HPY	7699	11	511	P	G	9-1	42.23	.23	21.37	3.78	7.02	20.70	5.01	.34	0.00	.03	0.00	100.70		
NL-RCH-03A	-32+80HPY	7699	11	512	P	G	9-1	41.88	.60	20.36	4.36	7.17	20.05	5.46	.26	.03	.06	.01	100.26		
NL-RCH-03A	-32+80HPY	7699	11	513	P	G	9-1	41.91	.56	20.30	4.30	7.18	20.57	5.40	.30	.03	.03	0.00	100.58		
NL-RCH-03A	-32+80HPY	7699	11	603	P	G	9-1	41.77	.62	20.36	4.10	6.99	20.66	5.36	.30	.04	.04	0.00	100.23		
NL-RCH-03A	-32+80HPY	7699	11	604	P	G	9-1	41.70	.60	20.33	4.22	7.12	20.45	5.36	.29	.01	.04	.00	100.14		
NL-RCH-03A	-32+80HPY	7699	11	608	P	G	9-1	41.78	.58	20.03	4.49	7.06	20.58	5.47	.31	.01	.04	0.00	100.36		
NL-RCH-03A	-32+80HPY	7699	11	612	P	G	9-1	41.85	.56	20.12	4.31	6.97	20.56	5.40	.27	.01	.05	0.00	100.09		
NL-RCH-03A	-32+80HPY	7699	20	101	P	G	9-1	41.87	.60	20.13	4.24	6.99	20.67	5.38	.27	0.00	.04	0.00	100.18		
NL-RCH-03A	-32+80HPY	7699	20	103	P	G	9-1	41.80	.57	20.10	4.33	7.05	20.68	5.39	.30	.00	.07	.00	100.29		
NL-RCH-03A	-32+80HPY	7699	20	105	P	G	9-1	42.09	.25	21.77	2.81	7.65	20.36	4.85	.37	0.00	.03	0.00	100.19		
NL-RCH-03A	-32+80HPY	7699	20	110	P	G	9-1	41.76	.24	22.17	2.74	7.70	19.79	4.87	.35	0.00	.04	.01	99.66		
NL-RCH-03A	-32+80HPY	7699	20	113	P	G	9-1	41.75	.22	21.00	4.08	7.46	19.69	5.37	.36	.02	.02	0.00	99.97		
NL-RCH-03A	-32+80HPY	7699	20	207	P	G	9-1	41.72	.10	21.18	3.92	7.89	19.23	5.20	.50	0.00	.04	0.00	99.77		
NL-RCH-03A	-32+80HPY	7699	20	209	P	G	9-1	42.04	.24	21.94	2.79	7.65	20.64	4.87	.37	0.00	.03	0.00	100.57		
NL-RCH-03A	-32+80HPY	7719	10	201	P	G	9-1	41.59	.52	20.57	4.08	6.97	20.90	5.36	.26	.02	.05	.00	100.33		
NL-RCH-03A	-32+80HPY	7719	10	303	P	G	9-1	41.89	.13	21.00	4.47	7.58	19.67	5.47	.39	.00	.01	.00	100.63		
NL-RCH-03A	-32+80HPY	7719	10	308	P	G	9-1	41.55	.56	20.26	4.03	6.97	20.84	5.35	.28	.01	.06	.01	99.92		
NL-RCH-03A	-32+80HPY	7719	10	309	P	G	9-1	41.78	.58	20.39	4.14	7.03	20.61	5.37	.29	0.00	.05	0.00	100.23		
NL-RCH-03A	-32+80HPY	7719	10	406	P	G	9-1	41.95	.53	20.34	4.02	7.01	20.41	5.31	.31	.03	.03	0.00	99.94		
NL-RCH-03A	-32+80HPY	7719	10	409	P	G	9-1	41.86	.55	20.35	4.03	7.05	20.34	5.36	.28	.01	.05	.01	99.90		
NL-RCH-03A	-32+80HPY	7719	10	412	P	G	9-1	41.71	.46	20.69	4.24	6.89	20.43	5.22	.33	.01	.05	.00	100.04		
NL-RCH-03A	-32+80HPY	7719	10	501	P	G	9-1	41.80	.55	20.48	4.05	7.16	20.28	5.34	.30	.01	.04	.00	100.00		
NL-RCH-03A	-32+80HPY	7719	10	504	P	G	9-1	42.04	.58	20.36	4.04	7.09	20.25	5.37	.32	0.00	.03	.00	100.08		
NL-RCH-03A	-32+80HPY	7719	10	505	P	G	9-1	41.52	.02	21.85	3.54	6.91	20.95	5.02	.46	.01	.02	.01	100.31		
NL-RCH-03A	-32+80HPY	7719	10	506	P	G	9-1	42.04	.01	21.12	4.45	7.67	20.07	4.77	.48	0.00	.04	.00	100.64		
NL-RCH-03A	-32+80HPY	7719	10	608	P	G	9-1	41.65	.02	20.86	4.54	7.32	19.70	5.33	.40	0.00	.01	.00	99.83		
NL-RCH-03A	-32+80HPY	7699	11	506	P	G10-2	42.18	.02	20.87	5.05	6.76	21.65	3.51	.43	.03	.03	.00	100.53			
NL-RCH-03A	-32+80HPY	7699	11	605	P	G10-2	41.61	.01	20.96	4.53	7.76	19.98	4.26	.47	0.00	.05	.00	99.64			
NL-RCH-03A	-32+80HPY	7699	11	610	P	G10-2	41.54	.01	21.14	4.39	7.70	19.77	4.18	.48	.00	.03	0.00	99.24			
NL-RCH-03A	-32+80HPY	7699	20	205	P	G10-2	42.26	0.00	22.42	3.33	7.25	20.85	3.69	.50	.02	.01	0.00	100.33			
NL-RCH-03A	-32+80HPY	7699	20	208	P	G10-2	42.15	.00	22.31	3.15	7.34	20.88	3.75	.48	0.00	.02	0.00	100.08			
NL-RCH-03A	-32+80HPY	7683	10	105	P	G11	41.07	.59	19.54	5.43	7.96	18.99	5.89	.40	.03	.06	0.00	99.97			
NL-RCH-03A	-32+80HPY	7683	10	107	P	G11	41.42	.01	19.64	5.95	7.08	18.84	6.57	.58	.01	.01	.01	100.12			
NL-RCH-03A	-32+80HPY	7683	10	113	P	G11	41.51	.05	20.08	5.85	7.26	19.19	6.03	.53	.01	.00	.00	100.51			
NL-RCH-03A	-32+80HPY	7683	10	202	P	G11	41.68	.05	19.91	5.20	7.52	18.83	6.03	.40	0.00	.01	.01	99.63			
NL-RCH-03A	-32+80HPY	7683	10	208	P	G11	41.30	.59	19.28	5.38	8.08	19.16	5.79	.41	.01	.06	.00	100.07			
NL-RCH-03A	-32+80HPY	7683	10	306	P	G11	41.32	.10	18.70	6.46	7.63	18.65	6.74	.39	0.00	.00	0.00	99.98			
NL-RCH-03A	-32+80HPY	7683	10	313	P	G11	41.25	.26	18.52	6.92	8.28	17.55	6.50	.44	.01	.03	0.00	99.76			

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
				Grain	SA	CFM	DI	M															C	T (Zn) °C
NL-RCH-03A	-32+80HPY	7699	11	505	P	G11			41.22	.57	19.33		5.43	8.10	18.74	5.93	.39	0.00			.06	.01	99.77	
NL-RCH-03A	-32+80HPY	7699	11	508	P	G11			41.38	.58	19.07		5.46	8.10	19.10	5.89	.35	0.00			.06	.00	100.00	
NL-RCH-03A	-32+80HPY	7699	11	614	P	G11			41.71	.00	20.54		4.94	7.65	19.49	5.71	.43	.00			.03	.00	100.50	
NL-RCH-03A	-32+80HPY	7699	11	617	P	G11			41.00	.59	19.44		5.22	8.13	18.29	5.84	.42	.01			.09	0.00	99.02	
NL-RCH-03A	-32+80HPY	7699	20	104	P	G11			41.58	.61	19.53		5.28	8.05	18.99	5.86	.37	.02			.06	0.00	100.36	
NL-RCH-03A	-32+80HPY	7699	20	213	P	G11			40.72	.24	17.66		7.43	7.62	17.95	6.88	.43	.03			.05	0.00	99.01	
NL-RCH-03A	-32+80HPY	7719	10	203	P	G11			41.08	.61	19.26		5.40	7.91	19.13	5.87	.37	.03			.06	.00	99.72	
NL-RCH-03A	-32+80HPY	7719	10	208	P	G11			41.47	.48	19.62		5.21	7.28	19.38	5.74	.40	0.00			.06	.00	99.63	
NL-RCH-03A	-32+80HPY	7719	10	310	P	G11			41.39	.14	18.76		6.89	6.53	19.56	6.29	.39	.01			.03	0.00	99.99	
NL-RCH-03A	-32+80HPY	7719	10	313	P	G11			41.37	.58	19.32		5.20	8.26	19.09	5.81	.40	.03			.06	0.00	100.11	
NL-RCH-03A	-32+80HPY	7719	10	401	P	G11			41.42	.07	20.28		4.91	9.16	18.41	5.66	.43	.00			.02	.01	100.36	
NL-RCH-03A	-32+80HPY	7719	10	407	P	G11			41.24	.56	19.56		5.12	8.15	19.02	5.77	.42	.00			.06	0.00	99.89	
NL-RCH-03A	-32+80HPY	7719	10	416	P	G11			41.72	.57	19.97		4.65	7.10	20.45	5.56	.27	0.00			.06	.01	100.36	
NL-RCH-03A	-32+80HPY	7719	10	512	P	G11			41.18	.12	19.30		6.40	7.43	18.67	6.60	.50	.00			.04	.01	100.26	
NL-RCH-03A	-32+80HPY	7719	10	614	P	G11			41.35	.57	19.45		5.09	8.10	18.90	5.78	.41	.01			.07	.00	99.73	
NL-RCH-03A	-32+80HPY	7719	10	616	P	G11			41.18	.43	18.41		6.63	8.67	18.18	6.24	.41	0.00			.02	.01	100.16	
NL-RCH-03A	-32+80HPY	7683	10	303	P	G11-1			41.68	.12	20.35		4.94	7.02	19.92	5.30	.36	.03			.03	.01	99.74	
NL-RCH-03A	-32+80HPY	7683	10	309	P	G11-1			41.56	.24	19.77		5.38	7.69	19.26	5.50	.42	.02			.03	.00	99.86	
NL-RCH-03A	-32+80HPY	7683	10	311	P	G11-1			41.83	.05	18.78		6.87	6.13	20.06	6.08	.31	.02			.01	.01	100.14	
NL-RCH-03A	-32+80HPY	7683	10	401	P	G11-1			41.74	.11	20.37		5.15	7.36	19.92	4.63	.46	0.00			.04	.00	99.78	
NL-RCH-03A	-32+80HPY	7699	11	504	P	G11-1			41.89	.19	20.26		5.17	6.97	20.17	5.50	.38	.03			.04	0.00	100.61	
NL-RCH-03A	-32+80HPY	7699	20	102	P	G11-1			41.28	.35	17.57		7.99	6.77	19.34	6.46	.35	.01			.03	0.00	100.15	
NL-RCH-03A	-32+80HPY	7719	10	102	P	G11-1			41.71	.18	19.96		5.95	6.91	19.92	5.58	.37	.01			.04	0.00	100.64	
NL-RCH-03A	-32+80HPY	7719	10	110	P	G11-1			41.51	.01	20.87		4.91	6.65	21.14	4.76	.43	.01			.02	.01	100.32	
NL-RCH-03A	-32+80HPY	7719	10	111	P	G11-1			41.42	.04	20.34		5.24	7.37	19.91	5.44	.48	.02			.00	0.00	100.27	
NL-RCH-03A	-32+80HPY	7719	10	213	P	G11-1			41.62	.06	20.24		5.35	7.69	19.09	5.31	.49	.01			.04	0.00	99.91	
NL-RCH-03A	-32+80HPY	7719	10	215	P	G11-1			41.63	.70	18.83		6.18	6.59	20.00	5.73	.33	0.00			.08	.01	100.10	
NL-RCH-03A	-32+80HPY	7719	10	316	P	G11-1			41.60	.13	18.20		7.42	6.66	20.04	5.42	.34	.04			.03	.00	99.89	
NL-RCH-03A	-32+80HPY	7719	10	413	P	G11-1			41.70	.04	20.46		5.15	7.01	20.29	4.98	.47	.02			.02	0.00	100.13	
NL-RCH-03A	-32+80HPY	7719	10	509	P	G11-1			41.41	.26	19.82		5.44	7.35	20.13	5.31	.40	0.00			.06	0.00	100.18	
NL-RCH-03A	-32+80HPY	7699	11	507	P	GT			41.89	0.00	20.61		4.72	7.63	20.17	4.60	.49	.02			.03	.00	100.15	
NL-RCH-03A	-32+80HPY	7699	20	210	P	G11	DIO		41.30	.20	18.04		7.83	5.66	19.71	6.49	.33	.00			.03	.00	99.60	
NL-RCH-03A	-32+80HPY	7719	10	312	P	G11-1	DIO		41.50	.22	18.90		7.10	6.06	20.14	5.87	.38	.03			.04	.00	100.25	
NL-RCH-03A	-32+80HPY	7719	10	601	R	ALM			38.12	0.00	22.42		.04	31.29	7.40	1.09	.63	0.00			0.00	.00	100.99	
NL-RCH-03A	-32+80HPY	7719	10	713	R	G 5			38.73	.03	22.10		.09	26.36	7.77	5.25	.32	.01			0.00	.00	100.68	



ISO 9001:2015
ISO 17025:2005



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Diamond Indicator **ANALYSES** and **CLASSIFICATIONS** for 1 RJK Explorations sample

Source : EPMA
Status : BASE: BD37
Project : RJD1

Sample:
HSMRC-CONC

File Name : PRB9747F
Analyses: 478
Date : 6 October 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																
					SA	CFM	DI	M	C T(Zn)	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Na2O	K2O	Total
					°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
HSMRC-CONC	-32+80HPY	7700	20	406		OLV-FORS			41.06	.02	.02		.05		6.99	51.77	.04	.09	.32				.01		.01	100.36
HSMRC-CONC	-32+80HPY	7700	20	407		OLV-FORS			40.86	.01	0.00		.07		9.42	49.47	.02	.11	.35				.00		.00	100.32
HSMRC-CONC	-32+80HPY	7700	20	408		OLV-FORS			40.98	.01	0.00		.01		7.94	50.80	.02	.12	.36				0.00		0.00	100.24
HSMRC-CONC	-32+80HPY	7700	20	410		OLV-FORS			40.90	.03	.02		.03		8.44	50.60	.01	.13	.35				.03		0.00	100.53
HSMRC-CONC	-32+80HPY	7700	20	411		OLV-FORS			41.61	.01	.01		.03		6.41	52.22	.01	.12	.34				.01		.00	100.77
HSMRC-CONC	-32+80HPY	7722	21	505		OLV-FORS			41.11	.03	.00		.05		7.99	50.20	.02	.12	.29				.02		0.00	99.82
HSMRC-CONC	-32+80HPY	7722	21	511		OLV-FORS			41.13	.05	.01		0.00		8.59	50.53	.04	.14	.38				.00		0.00	100.89
HSMRC-CONC	-32+80HPY	7722	30	107		OLV-FORS			41.13	.03	0.00		.03		7.39	50.71	.02	.13	.40				.01		0.00	99.86
HSMRC-CONC	-32+80HPY	7722	30	706		OLV-FORS			41.08	.01	0.00		.00		7.73	51.50	.02	.12	.37				0.00		.00	100.83
HSMRC-CONC	-32+80HPY	7722	31	402		OLV-FORS			41.20	.05	.01		.04		7.75	50.28	.03	.10	.34				.00		0.00	99.81
HSMRC-CONC	-32+80HPY	7722	31	403		OLV-FORS			41.73	.04	.00		.01		6.15	52.22	.02	.10	.39				.02		.00	100.67
HSMRC-CONC	-32+80HPY	7722	31	501		OLV-FORS			41.54	0.00	.01		.04		7.15	51.49	.02	.11	.37				.01		.00	100.75
HSMRC-CONC	-32+80HPY	7722	40	606		OLV-FORS			40.91	.02	.01		.03		8.20	51.25	.02	.11	.33				.01		.00	100.89
HSMRC-CONC	-32+80HPY	7729	30	707		OLV-FORS			41.15	.01	.02		.04		7.76	51.12	.05	.12	.35				.01		.01	100.65
HSMRC-CONC	-32+80HPY	7729	30	708		OLV-FORS			40.64	.03	.00		0.00		8.38	51.01	.02	.10	.33				.02		.00	100.53
HSMRC-CONC	-32+80HIL	7700	20	601		PIL				51.75	.32		.93	9.95	26.18	11.33	.01	.24		0.00	.09					100.81
HSMRC-CONC	-32+80HIL	7700	20	605		PIL				52.03	.39		.40	9.11	27.70	10.59	.01	.28		.10	.16					100.78
HSMRC-CONC	-32+80HIL	7700	20	607		PIL				52.07	.36		.47	9.00	27.69	10.64	.03	.27		0.00	.12					100.65
HSMRC-CONC	-32+80HIL	7700	20	609		PIL				50.30	.27		3.74	9.80	24.99	11.29	.01	.29		0.00	.16					100.85
HSMRC-CONC	-32+80HIL	7700	20	611		PIL				52.83	.46		.62	8.49	26.36	11.70	.02	.26		.05	.03					100.82
HSMRC-CONC	-32+80HIL	7700	20	613		PIL				45.08	.11		4.67	16.02	25.58	8.42	.01	.35		.02	.39					100.65
HSMRC-CONC	-32+80HIL	7700	20	614		PIL				50.97	.28		2.07	9.77	26.18	10.92	.01	.30		0.00	.11					100.59
HSMRC-CONC	-32+80HIL	7700	20	615		PIL				51.58	.31		.99	10.48	26.15	11.22	.03	.28		.02	.09					101.16 #
HSMRC-CONC	-32+80HIL	7700	20	616		PIL				50.94	.23		.81	10.56	26.70	10.59	.01	.28		0.00	.06					100.20
HSMRC-CONC	-32+80HIL	7700	20	701		PIL				50.97	.21		.53	11.04	27.24	10.28	.01	.31		.04	.08					100.71
HSMRC-CONC	-32+80HIL	7700	20	702		PIL				48.36	.19		.95	14.12	27.37	8.99	.01	.30		0.00	.18					100.45
HSMRC-CONC	-32+80HIL	7700	20	704		PIL				51.36	.16		.17	10.74	27.00	10.61	.02	.32		.00	.06					100.44
HSMRC-CONC	-32+80HIL	7700	20	705		PIL				52.76	.57		1.06	8.70	23.95	13.05	.02	.25		.00	.04					100.40
HSMRC-CONC	-32+80HIL	7700	20	707		PIL				50.31	.27		3.89	9.79	24.95	11.24	.01	.28		.05	.07					100.85
HSMRC-CONC	-32+80HIL	7700	20	709		PIL				51.77	.29		.86	9.74	26.60	11.12	.02	.28		0.00	.15					100.84
HSMRC-CONC	-32+80HIL	7700	20	710		PIL				50.45	.27		3.59	9.32	24.71	11.53	.01	.28		0.00	.17					100.32
HSMRC-CONC	-32+80HIL	7700	20	711		PIL				48.64	.19		.95	12.93	28.13	8.71	.01	.29		0.00	.21					100.07
HSMRC-CONC	-32+80HIL	7700	20	712		PIL				51.35	.27		.89	9.96	26.93	10.74	.02	.24		.01	.17					100.58
HSMRC-CONC	-32+80HIL	7700	20	713		PIL				52.31	.15		.35	9.66	26.40	11.51	.02	.20		.01	.10					100.70
HSMRC-CONC	-32+80HIL	7700	20	715		PIL				50.84	.27		3.53	9.25	24.89	11.53	.01	.32		0.00	.06					100.70
HSMRC-CONC	-32+80HIL	7700	20	801		PIL				51.53	.23		.92	9.43	27.10	10.69	.01	.31		.04	.16					100.42
HSMRC-CONC	-32+80HIL	7700	20	802		PIL				51.16	.25		2.66	9.08	26.27	11.01	.00	.28		.02	.18					100.91
HSMRC-CONC	-32+80HIL	7700	20	803		PIL				42.99	.10		4.07	18.02	26.15	7.13	.01	.29		.03	.48					99.27
HSMRC-CONC	-32+80HIL	7700	20	804		PIL				50.59	.27		3.55	8.91	24.98	11.42	.01	.28		.04	.14					100.18
HSMRC-CONC	-32+80HIL	7700	20	805		PIL				52.55	.64		1.72	7.68	24.99	12.33	.02	.26		0.00	0.00					100.18

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																	
					SA	CFM	DI	M	C	T (Zn)	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Na2O	K2O	Total
										°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
HSMRC-CONC	-32+80HIL	7700	20	806		PIL				52.12	.38		.45	10.07	25.46	11.88	.01	.29		.02	.07					100.74	
HSMRC-CONC	-32+80HIL	7700	20	807		PIL				51.50	.22		1.39	9.57	26.23	11.14	.02	.30		0.00	.08					100.43	
HSMRC-CONC	-32+80HIL	7700	20	808		PIL				50.79	.32		3.84	9.72	22.07	13.18	.01	.26		0.00	.15					100.36	
HSMRC-CONC	-32+80HIL	7700	20	809		PIL				48.49	.19		.81	13.60	28.01	8.73	.02	.30		0.00	.27					100.43	
HSMRC-CONC	-32+80HIL	7700	20	810		PIL				52.53	.39		.60	8.36	26.44	11.61	.02	.27		0.00	.17					100.39	
HSMRC-CONC	-32+80HIL	7700	20	812		PIL				51.26	.22		.83	10.12	26.34	10.96	.00	.30		.09	.14					100.26	
HSMRC-CONC	-32+80HIL	7730	20	407		PIL				53.10	.46		.85	8.35	25.32	12.48	.01	.28		0.00	.10					100.96	
HSMRC-CONC	-32+80HIL	7730	20	409		PIL				49.40	.17		.76	12.67	27.61	9.31	.00	.30		.03	.11					100.37	
HSMRC-CONC	-32+80HIL	7730	20	410		PIL				48.16	.19		.82	13.81	27.71	8.71	.01	.31		.02	.25					100.00	
HSMRC-CONC	-32+80HIL	7730	20	411		PIL				50.15	.19		.31	11.83	28.22	9.40	.01	.30		0.00	.18					100.59	
HSMRC-CONC	-32+80HIL	7730	20	412		PIL				50.42	.26		.87	10.83	26.87	10.31	.01	.30		.03	.23					100.14	
HSMRC-CONC	-32+80HIL	7730	20	414		PIL				50.66	.25		2.71	9.59	25.46	11.20	.00	.30		.01	.16					100.34	
HSMRC-CONC	-32+80HIL	7730	20	508		PIL				54.06	.54		2.34	6.33	22.53	14.43	.02	.28		.07	.01					100.61	
HSMRC-CONC	-32+80HIL	7730	20	602		PIL				51.47	.21		1.16	9.61	26.48	11.02	.01	.33		.03	.18					100.49	
HSMRC-CONC	-32+80HIL	7730	20	603		PIL				51.23	.21		.81	10.66	26.68	10.74	.02	.32		.03	.10					100.80	
HSMRC-CONC	-32+80HIL	7730	20	604		PIL				53.11	.51		1.14	8.55	24.30	13.03	.03	.26		0.00	.05					100.99	
HSMRC-CONC	-32+80HIL	7730	20	606		PIL				52.71	.52		.92	8.78	24.86	12.52	.02	.27		.01	.07					100.68	
HSMRC-CONC	-32+80HIL	7730	20	607		PIL				48.82	.15		.98	13.50	27.78	8.98	.02	.31		.04	.23					100.83	
HSMRC-CONC	-32+80HIL	7730	20	608		PIL				50.73	.15		1.72	10.90	26.35	10.68	.01	.32		.02	.09					100.95	
HSMRC-CONC	-32+80HIL	7730	20	612		PIL				50.65	.25		2.71	9.79	25.31	11.16	.02	.32		.02	0.00					100.22	
HSMRC-CONC	-32+80HIL	7730	20	708		PIL				50.10	.27		3.51	9.52	24.63	11.33	.01	.30		0.00	.06					99.72	
HSMRC-CONC	-32+80HIL	7730	20	709		PIL				51.08	.43		1.23	10.09	26.33	10.86	.01	.33		0.00	.08					100.44	
HSMRC-CONC	-32+80HIL	7730	20	711		PIL				43.75	.07		3.92	17.56	25.77	7.70	.01	.32		.03	.47					99.61	
HSMRC-CONC	-32+80HIL	7730	20	805		PIL				51.83	.40		.40	9.59	27.39	10.64	.01	.31		.01	.06					100.64	
HSMRC-CONC	-32+80HIL	7730	20	806		PIL				51.09	.38		.40	9.60	27.04	10.46	.02	.30		.07	.13					99.50	
HSMRC-CONC	-32+80HIL	7730	20	811		PIL				49.10	.21		.92	12.83	26.99	9.52	.02	.29		.04	.15					100.09	
HSMRC-CONC	-32+80HIL	7730	20	902		PIL				49.11	.19		.80	12.21	27.64	9.18	.00	.30		.05	.18					99.67	
HSMRC-CONC	-32+80HIL	7730	20	906		PIL				51.16	.21		.80	10.33	26.99	10.52	.01	.32		.01	.09					100.45	
HSMRC-CONC	-32+80HIL	7730	20	907		PIL				50.49	.21		.84	10.53	27.33	10.06	.01	.34		.02	.21					100.04	
HSMRC-CONC	-32+80HIL	7730	20	914		PIL				52.49	.36		.73	9.01	26.03	11.76	.02	.29		.01	.10					100.80	
HSMRC-CONC	-32+80HIL	7730	20	917		PIL				52.73	.47		.79	9.05	24.20	12.87	.03	.30		.07	.12					100.66	
HSMRC-CONC	-32+80HIL	7730	21	104		PIL				50.00	.26		4.02	9.54	24.61	11.33	.01	.31		0.00	.14					100.22	
HSMRC-CONC	-32+80HIL	7730	21	105		PIL				49.02	.18		.77	13.18	27.71	9.05	.01	.30		.00	.08					100.31	
HSMRC-CONC	-32+80HIL	7730	21	106		PIL				51.35	.22		.83	10.23	25.97	11.26	.00	.33		0.00	.17					100.36	
HSMRC-CONC	-32+80HIL	7730	21	108		PIL				50.31	.28		3.01	9.84	25.08	11.27	.01	.34		0.00	.24					100.38	
HSMRC-CONC	-32+80HIL	7730	21	110		PIL				50.63	.26		2.69	10.15	25.02	11.39	.02	.33		.00	.12					100.62	
HSMRC-CONC	-32+80HIL	7730	21	114		PIL				50.51	.20		1.75	10.37	26.61	10.42	.01	.34		.02	.12					100.35	
HSMRC-CONC	-32+80HIL	7730	21	115		PIL				50.14	.27		.83	11.32	26.88	10.13	.01	.28		0.00	.13					99.99	
HSMRC-CONC	-32+80HIL	7730	21	201		PIL				51.86	.29		1.27	9.13	25.35	11.81	.02	.29		0.00	.06					100.08	
HSMRC-CONC	-32+80HIL	7730	21	202		PIL				50.92	.37		1.85	10.11	24.83	11.60	.01	.27		.03	.03					100.03	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp															Trace					
				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
										°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
HSMRC-CONC	-32+80HIL	7730	21	203		PIL			50.68	.22		.88	11.10	26.52	10.61	.01	.32		.00	.18						100.54	
HSMRC-CONC	-32+80HIL	7730	21	205		PIL			47.99	.41		4.09	12.21	24.36	10.43	.01	.27		.04	.10						99.92	
HSMRC-CONC	-32+80HIL	7730	21	207		PIL			51.72	.35		.24	10.24	26.01	11.30	.02	.24		.12	.00						100.24	
HSMRC-CONC	-32+80HIL	7730	21	305		PIL			49.62	.18		.72	12.26	28.01	9.24	.01	.32		0.00	.17						100.52	
HSMRC-CONC	-32+80HIL	7730	21	413		PIL			50.56	.20		1.95	10.27	25.83	10.92	.01	.31		.03	.15						100.22	
HSMRC-CONC	-32+80HIL	7730	21	515		PIL			50.30	.30		1.13	11.02	26.52	10.40	.01	.30		0.00	.13						100.10	
HSMRC-CONC	-32+80HIL	7730	21	517		PIL			50.57	.25		.79	10.68	26.44	10.57	.02	.32		.00	.14						99.79	
HSMRC-CONC	-32+80HIL	7730	30	101		PIL			50.09	.19		.53	11.30	27.49	9.78	.01	.31		0.00	.19						99.89	
HSMRC-CONC	-32+80HIL	7730	30	111		PIL			50.94	.22		.83	10.85	25.34	11.37	.01	.29		.08	.15						100.08	
HSMRC-CONC	-32+80HIL	7730	30	302		PIL			51.33	.36		.46	9.90	27.25	10.49	.01	.30		.01	.09						100.20	
HSMRC-CONC	-32+80HIL	7730	30	402		PIL			50.09	.19		.69	11.54	26.87	10.06	.01	.29		.05	.08						99.86	
HSMRC-CONC	-32+80HIL	7730	30	405		PIL			49.63	.90		1.32	13.46	23.46	11.75	.03	.22		.02	.03						100.82	
HSMRC-CONC	-32+80HIL	7730	30	407		PIL			51.08	.22		1.11	10.14	26.32	10.93	.01	.30		.06	.21						100.37	
HSMRC-CONC	-32+80HIL	7730	30	408		PIL			51.30	.37		.48	9.67	27.05	10.56	.01	.28		0.00	.02						99.72	
HSMRC-CONC	-32+80HIL	7730	30	410		PIL			52.20	.40		.78	9.27	25.68	11.79	.02	.28		.00	.06						100.48	
HSMRC-CONC	-32+80HIL	7730	30	411		PIL			52.19	.46		.63	9.42	25.52	11.91	.02	.30		0.00	.13						100.58	
HSMRC-CONC	-32+80HIL	7730	30	413		PIL			49.95	.25		3.39	10.12	24.48	11.36	.01	.28		.04	.13						100.02	
HSMRC-CONC	-32+80HIL	7730	30	502		PIL			51.16	.23		.72	10.05	26.88	10.60	.02	.30		.06	.12						100.13	
HSMRC-CONC	-32+80HIL	7730	30	513		PIL			50.79	.20		.85	10.35	26.76	10.47	.01	.30		.09	.12						99.93	
HSMRC-CONC	-32+80HIL	7730	30	514		PIL			47.86	.15		1.70	14.07	26.43	9.22	.00	.30		.03	.15						99.91	
HSMRC-CONC	-32+80HIL	7730	30	601		PIL			49.61	.20		.75	12.68	26.06	10.33	.02	.30		.03	.18						100.15	
HSMRC-CONC	-32+80HIL	7730	30	614		PIL			49.81	.22		2.88	10.05	25.31	10.82	.00	.30		.06	.14						99.59	
HSMRC-CONC	-32+80HIL	7730	30	701		PIL			50.77	.20		2.14	10.11	25.93	10.90	.02	.34		.09	.13						100.63	
HSMRC-CONC	-32+80HIL	7730	30	703		PIL			49.72	.22		.72	11.74	27.20	9.70	.01	.30		.02	.09						99.72	
HSMRC-CONC	-32+80HIL	7730	30	704		PIL			50.24	.26		2.63	10.10	25.30	11.04	.01	.30		0.00	.10						99.98	
HSMRC-CONC	-32+80HIL	7730	30	713		PIL			51.46	.37		.45	9.78	27.02	10.64	.02	.30		.04	.07						100.14	
HSMRC-CONC	-32+80HIL	7730	30	716		PIL			50.30	.26		.93	11.14	26.66	10.28	.01	.31		.06	.12						100.07	
HSMRC-CONC	-32+80HIL	7730	30	802		PIL			50.94	.87		.48	10.94	24.52	11.78	.02	.22		.06	0.00						99.83	
HSMRC-CONC	-32+80HIL	7730	30	803		PIL			47.20	.49		.55	15.47	27.40	8.37	.00	.27		.02	.15						99.93	
HSMRC-CONC	-32+80HIL	7730	30	804		PIL			52.37	.22		1.27	9.05	24.57	12.57	.01	.34		.03	.23						100.67	
HSMRC-CONC	-32+80HIL	7730	30	806		PIL			50.36	.16		.83	10.93	27.24	9.97	.01	.32		.05	.10						99.98	
HSMRC-CONC	-32+80HIL	7730	30	809		PIL			47.90	.15		.95	14.31	27.44	8.72	.01	.33		0.00	.23						100.03	
HSMRC-CONC	-32+80HIL	7730	30	810		PIL			51.46	.38		.48	10.06	27.51	10.38	.01	.30		.05	.09						100.71	
HSMRC-CONC	-32+80HIL	7730	30	901		PIL			50.87	.91		1.16	10.59	24.13	11.99	.03	.22		.03	.04						99.98	
HSMRC-CONC	-32+80HIL	7730	30	906		PIL			48.26	.13		1.44	13.07	27.07	9.13	.02	.34		0.00	.30						99.76	
HSMRC-CONC	-32+80HIL	7730	30	909		PIL			50.73	.37		1.72	9.55	25.26	11.28	.01	.31		.01	.08						99.32	
HSMRC-CONC	-32+80HIL	7730	30	913		PIL			52.49	.56		.96	8.62	24.56	12.56	.03	.25		.06	.06						100.13	
HSMRC-CONC	-32+80HIL	7730	30	914		PIL			50.71	.25		2.65	9.05	25.47	11.25	.02	.30		.07	.27						100.02	
HSMRC-CONC	-32+80HIL	7730	30	915		PIL			50.03	.17		1.61	10.90	26.29	10.37	.01	.31		.02	.11						99.82	
HSMRC-CONC	-32+80HIL	7730	31	104		PIL			50.45	.22		3.14	10.08	24.97	11.26	.01	.36		0.00	.05						100.56	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																	
				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
									°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
HSMRC-CONC	-32+80HIL	7730	31	105		PIL					51.68	.38		.53	9.28	25.99	11.36	.02	.29		.05	.11				99.68
HSMRC-CONC	-32+80HIL	7730	31	107		PIL					51.07	.28		.73	10.66	26.44	10.79	0.00	.28		.08	.08				100.42
HSMRC-CONC	-32+80HIL	7730	31	109		PIL					51.64	.32		.74	9.78	26.16	11.27	.01	.28		0.00	.11				100.31
HSMRC-CONC	-32+80HIL	7730	31	110		PIL					50.12	.25		2.84	10.67	23.98	11.72	.01	.25		0.00	.06				99.90
HSMRC-CONC	-32+80HIL	7730	31	201		PIL					50.31	.19		.75	11.71	24.93	11.26	.01	.34		.06	.15				99.70
HSMRC-CONC	-32+80HIL	7730	31	301		PIL					51.51	.39		.43	9.38	27.26	10.51	0.00	.29		.05	0.00				99.82
HSMRC-CONC	-32+80HIL	7730	31	307		PIL					48.54	.44		4.32	10.95	25.29	10.15	.01	.27		.02	.02				100.00
HSMRC-CONC	-32+80HIL	7730	31	309		PIL					51.86	.60		1.26	8.91	24.44	12.33	.02	.23		.03	.04				99.71
HSMRC-CONC	-32+80HIL	7730	31	311		PIL					50.70	.25		2.55	9.34	25.80	11.00	.02	.32		0.00	.15				100.12
HSMRC-CONC	-32+80HIL	7730	31	312		PIL					50.30	.24		2.58	9.96	25.02	11.14	.01	.32		.05	0.00				99.61
HSMRC-CONC	-32+80HIL	7730	31	401		PIL					49.24	.17		1.39	11.80	26.92	9.64	.01	.35		.02	.18				99.70
HSMRC-CONC	-32+80HIL	7730	31	405		PIL					50.55	.22		.81	10.72	26.57	10.50	.00	.29		0.00	.11				99.79
HSMRC-CONC	-32+80HIL	7730	31	413		PIL					50.28	.25		.87	10.91	26.34	10.45	.00	.30		.04	.07				99.52
HSMRC-CONC	-32+80HIL	7730	31	503		PIL					51.62	.43		.82	9.21	24.96	11.96	.01	.24		.03	.12				99.40
HSMRC-CONC	-32+80HIL	7730	31	504		PIL					50.00	.15		1.67	11.10	26.28	10.38	.00	.33		0.00	.14				100.05
HSMRC-CONC	-32+80HIL	7730	31	507		PIL					51.64	.36		.70	9.77	25.61	11.59	.01	.28		0.00	.12				100.09
HSMRC-CONC	-32+80HIL	7730	31	514		PIL					52.41	.47		.78	8.45	25.13	12.24	.02	.26		0.00	.09				99.84
HSMRC-CONC	-32+80HIL	7730	40	102		PIL					52.00	.40		.78	8.73	25.68	11.75	.02	.28		0.00	.14				99.77
HSMRC-CONC	-32+80HIL	7730	40	209		PIL					50.69	.23		.84	10.73	26.49	10.62	.01	.32		.06	.20				100.20
HSMRC-CONC	-32+80HIL	7730	40	212		PIL					48.07	.13		1.72	13.85	24.87	10.23	.02	.32		.05	.24				99.47
HSMRC-CONC	-32+80HIL	7730	40	302		PIL					50.82	.37		.49	10.15	27.14	10.30	.02	.28		.02	.12				99.73
HSMRC-CONC	-32+80HIL	7730	40	305		PIL					50.95	.38		.44	10.23	27.24	10.35	.01	.29		.01	.16				100.05
HSMRC-CONC	-32+80HIL	7730	20	613		CR	-	L L	1411		.07	.31	13.44	.13	54.36	5.40	9.58	15.89	0.00	.24	.23	.04				99.69
HSMRC-CONC	-32+80HIL	7730	20	705		CR	-	L L	774		.02	.65	17.46	.20	44.27	8.69	16.68	11.86	.00	.35	.14	.14				100.46
HSMRC-CONC	-32+80HIL	7730	21	401		CR	-	K U	953+		.03	4.85	1.27	.97	35.79	24.87	26.36	6.26	0.00	.47	.20	.08				101.14 #
HSMRC-CONC	-32+80HIL	7730	21	402		CR	-	U G	534		.03	.53	6.31	.05	52.71	7.87	27.92	2.20	.00	1.55	.17	.42				99.78
HSMRC-CONC	-32+80HIL	7730	30	519		CR	-	L L	820		.02	.52	15.49	.18	49.16	4.76	18.32	10.38	.00	.32	.11	.12				99.38
HSMRC-CONC	-32+80HIL	7730	31	404		CR	-	L G	1089+		.00	.63	17.56	.17	43.34	9.17	16.56	11.80	0.00	.38	.18	.06				99.86
HSMRC-CONC	-32+80HIL	7730	31	406		CR	-	L L	715		.03	.64	17.22	.19	43.17	9.34	16.70	11.65	0.00	.34	.10	.18				99.57
HSMRC-CONC	-32+80HPY	7729	40	410		OP1	-				58.47	.01	.91		.31		4.12	36.74	.20	.10	.09		.03		.01	100.99
HSMRC-CONC	-32+80HPY	7729	40	512		OP1	-				58.28	.05	.62		.18		5.89	35.45	.25	.16	.10		.00		.00	100.99
HSMRC-CONC	-32+80HPY	7729	31	210		CR04	DI	K K	1040+		.02	.97	3.37	.31	63.00	6.02	12.79	13.20	.01	.31	.10	.07				100.17
HSMRC-CONC	-32+80HPY	7700	20	405		OLV-FORS	DI				40.87	0.00	.02		.06		7.55	51.82	.02	.11	.38		.03		0.00	100.85
HSMRC-CONC	-32+80HPY	7700	20	504		OLV-FORS	DI				41.71	.01	.01		.00		6.61	51.17	.01	.10	.34		.00		.01	99.96
HSMRC-CONC	-32+80HPY	7722	21	503		OLV-FORS	DI				41.65	0.00	.00		.02		6.70	52.72	.01	.11	.32		.01		0.00	101.55 #
HSMRC-CONC	-32+80HPY	7722	21	506		OLV-FORS	DI				41.06	.04	.01		.05		8.07	50.97	.03	.11	.34		.01		.01	100.69
HSMRC-CONC	-32+80HPY	7722	21	508		OLV-FORS	DI				41.49	0.00	0.00		.02		6.22	51.75	.01	.08	.38		0.00		.00	99.95
HSMRC-CONC	-32+80HPY	7722	21	509		OLV-FORS	DI				41.36	.00	0.00		.00		6.79	52.21	0.00	.14	.32		.01		0.00	100.83
HSMRC-CONC	-32+80HPY	7722	21	513		OLV-FORS	DI				41.49	.02	.01		.08		6.38	51.40	.05	.08	.36		.02		.00	99.89
HSMRC-CONC	-32+80HPY	7722	30	607		OLV-FORS	DI				41.29	0.00	.01		.05		7.37	52.15	.02	.09	.35		.00		.01	101.34 #

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
				Grain	SA	CFM	DI	M															C	T (Zn) °C
HSMRC-CONC	-32+80HPY	7722	40	604		OLV-FORS	DI															.00	0.00	100.20
HSMRC-CONC	-32+80HPY	7722	40	605		OLV-FORS	DI															.01	0.00	100.82
HSMRC-CONC	-32+80HPY	7729	21	404		OLV-FORS	DI															.02	0.00	100.57
HSMRC-CONC	-32+80HPY	7729	21	407		OLV-FORS	DI															0.00	0.00	100.93
HSMRC-CONC	-32+80HPY	7729	21	409		OLV-FORS	DI															.02	0.00	100.81
HSMRC-CONC	-32+80HPY	7729	40	304		OLV-FORS	DI															.00	.01	100.83
HSMRC-CONC	-32+80HPY	7700	20	409		OLV-FORS	DI*															0.00	0.00	100.57
HSMRC-CONC	-32+80HPY	7700	20	412		OLV-FORS	DI*															.01	.01	100.94
HSMRC-CONC	-32+80HPY	7700	20	502		OLV-FORS	DI*															.01	.00	100.65
HSMRC-CONC	-32+80HPY	7722	21	504		OLV-FORS	DI*															0.00	0.00	99.84
HSMRC-CONC	-32+80HPY	7722	21	507		OLV-FORS	DI*															.02	.00	100.14
HSMRC-CONC	-32+80HPY	7722	21	512		OLV-FORS	DI*															.00	0.00	100.66
HSMRC-CONC	-32+80HPY	7722	30	106		OLV-FORS	DI*															.00	.00	101.02 #
HSMRC-CONC	-32+80HPY	7722	30	707		OLV-FORS	DI*															.01	0.00	99.67
HSMRC-CONC	-32+80HPY	7722	30	807		OLV-FORS	DI*															0.00	.00	100.18
HSMRC-CONC	-32+80HPY	7722	31	311		OLV-FORS	DI*															.00	.01	100.78
HSMRC-CONC	-32+80HPY	7722	31	401		OLV-FORS	DI*															0.00	0.00	100.89
HSMRC-CONC	-32+80HPY	7722	31	404		OLV-FORS	DI*															.01	0.00	99.99
HSMRC-CONC	-32+80HPY	7722	31	502		OLV-FORS	DI*															.02	.00	101.06 #
HSMRC-CONC	-32+80HPY	7729	30	812		OLV-FORS	DI*															.01	0.00	100.86
HSMRC-CONC	-32+80HPY	7729	40	305		OLV-FORS	DI*															0.00	0.00	101.09 #
HSMRC-CONC	-32+80HPY	7729	40	306		OLV-FORS	DI*															.02	.00	101.06 #
HSMRC-CONC	-32+80HPY	7729	40	405		OLV-FORS	DI*															.01	0.00	100.84
HSMRC-CONC	-32+80HPY	7700	20	215	CP	CP2	-	--														.52	.01	99.74
HSMRC-CONC	-32+80HPY	7722	21	402	CP	CP2	-	--														.26	.01	99.98
HSMRC-CONC	-32+80HPY	7722	21	412	CP	CP2	-	--														.55	.01	99.90
HSMRC-CONC	-32+80HPY	7722	30	506	CP	CP2	-	--														.48	0.00	99.44
HSMRC-CONC	-32+80HPY	7722	30	802	CP	CP2	-	--														.46	.00	99.69
HSMRC-CONC	-32+80HPY	7722	30	909	CP	CP2	-	--														.46	0.00	99.38
HSMRC-CONC	-32+80HPY	7722	31	302	CP	CP2	-	--														.48	0.00	99.73
HSMRC-CONC	-32+80HPY	7722	31	308	CP	CP2	-	--														.26	.00	99.43
HSMRC-CONC	-32+80HPY	7729	21	311	CP	CP2	-	--														.48	.01	99.02
HSMRC-CONC	-32+80HPY	7729	31	407	CP	CP2	-	--														.23	.01	99.25
HSMRC-CONC	-32+80HPY	7729	40	104	CP	CP2	-	--														.45	.01	99.56
HSMRC-CONC	-32+80HPY	7729	40	208	CP	CP2	-	--														.54	.01	98.79
HSMRC-CONC	-32+80HPY	7700	20	213	CP	CPX	-	--														2.36	.00	99.35
HSMRC-CONC	-32+80HPY	7700	20	303	CP	CPX	-	--														2.47	.00	99.26
HSMRC-CONC	-32+80HPY	7722	21	411	CP	CPX	-	--														.32	.00	99.88
HSMRC-CONC	-32+80HPY	7722	30	405	CP	CPX	-	--														.27	0.00	99.37
HSMRC-CONC	-32+80HPY	7729	31	213	CP	CPX	-	--														.52	.00	98.91

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
HSMRC-CONC	-32+80HPY	7729	40	103	CP	CPX	-	--	53.33	.37	1.22		1.03		5.21	16.30	20.89	.11	.08			.52	.00	99.07	
HSMRC-CONC	-32+80HPY	7729	40	608	CP	CPX	-	--	53.02	.40	1.53		1.21		5.43	16.04	20.93	.14	.06			.56	0.00	99.32	
HSMRC-CONC	-32+80HPY	7700	20	216	CP	CP2	-	Diam	54.00	.28	.86		1.02		5.53	18.02	19.10	.13	.06			.46	.00	99.46	
HSMRC-CONC	-32+80HPY	7722	21	407	CP	CP2	-	Diam	53.73	.31	.85		1.01		5.23	17.83	19.97	.14	.08			.56	0.00	99.71	
HSMRC-CONC	-32+80HPY	7729	40	101	CP	CP2	-	Diam	54.03	.27	.80		1.10		5.63	17.98	18.71	.16	.08			.52	.00	99.27	
HSMRC-CONC	-32+80HPY	7729	30	307	CP	CP2	-	Diam+	53.72	.27	.72		.98		5.62	18.10	18.94	.15	.04			.52	.01	99.07	
HSMRC-CONC	-32+80HPY	7700	20	301	CP	CP2	-	Diam-	53.59	.30	1.06		.73		6.01	17.98	19.44	.14	.10			.41	.01	99.75	
HSMRC-CONC	-32+80HPY	7700	20	308	CP	CP2	-	Diam-	53.81	.35	.97		1.06		5.91	17.89	19.18	.16	.06			.52	0.00	99.91	
HSMRC-CONC	-32+80HPY	7722	21	403	CP	CP2	-	Diam-	53.74	.29	.89		1.18		5.48	17.76	19.50	.13	.04			.50	.00	99.52	
HSMRC-CONC	-32+80HPY	7722	21	410	CP	CP2	-	Diam-	53.57	.35	.98		1.14		5.67	17.67	19.78	.14	.09			.57	.01	99.98	
HSMRC-CONC	-32+80HPY	7722	30	403	CP	CP2	-	Diam-	53.84	.20	.88		.79		5.19	17.81	20.82	.15	.03			.29	0.00	100.00	
HSMRC-CONC	-32+80HPY	7722	31	213	CP	CP2	-	Diam-	53.77	.34	.92		.92		5.68	17.67	19.93	.16	.09			.45	0.00	99.92	
HSMRC-CONC	-32+80HPY	7729	21	304	CP	CP2	-	Diam-	54.13	.34	.98		1.05		5.71	17.77	19.43	.13	.09			.52	0.00	100.14	
HSMRC-CONC	-32+80HPY	7729	21	305	CP	CP2	-	Diam-	53.89	.25	1.28		1.28		5.56	17.49	19.46	.16	.06			.72	.00	100.14	
HSMRC-CONC	-32+80HPY	7729	30	602	CP	CP2	-	Diam-	53.94	.23	1.12		.98		5.83	18.89	18.28	.14	.14			.44	.00	100.00	
HSMRC-CONC	-32+80HPY	7722	31	212	CP	CPX	-	Diam-	53.47	.31	.92		1.16		5.36	18.54	19.34	.15	.10			.49	.01	99.85	
HSMRC-CONC	-32+80HPY	7700	20	402	CP	CP2	-	Gr	53.76	.24	1.09		.65		4.82	17.43	21.48	.11	.04			.27	0.00	99.88	
HSMRC-CONC	-32+80HPY	7722	30	406	CP	CP2	-	Gr	53.65	.33	1.26		.88		5.32	17.27	20.28	.14	.06			.47	.00	99.66	
HSMRC-CONC	-32+80HPY	7722	30	507	CP	CP2	-	Gr	53.62	.32	1.40		.99		6.20	17.97	18.88	.18	.04			.48	.00	100.08	
HSMRC-CONC	-32+80HPY	7729	21	303	CP	CP2	-	Gr	53.50	.31	1.42		.98		5.52	17.40	20.03	.15	.05			.47	.00	99.81	
HSMRC-CONC	-32+80HPY	7700	20	302	CP	CPX	-	Gr	52.83	.35	1.40		1.22		5.20	16.94	20.29	.12	.07			.52	.00	98.95	
HSMRC-CONC	-32+80HPY	7700	20	311	CP	CPX	-	Gr	53.36	.36	1.31		1.29		5.63	17.09	20.34	.16	.09			.63	0.00	100.24	
HSMRC-CONC	-32+80HPY	7700	20	312	CP	CPX	-	Gr	52.29	.26	3.27		1.19		5.29	17.09	20.16	.14	.01			.30	0.00	100.01	
HSMRC-CONC	-32+80HPY	7700	20	313	CP	CPX	-	Gr	51.79	.28	3.49		1.17		5.39	16.84	20.08	.13	.03			.27	.00	99.47	
HSMRC-CONC	-32+80HPY	7722	21	310	CP	CPX	-	Gr	51.88	.28	3.65		1.32		5.86	16.80	19.59	.15	.02			.32	.00	99.88	
HSMRC-CONC	-32+80HPY	7722	21	314	CP	CPX	-	Gr	52.94	.18	2.85		1.10		6.31	18.13	17.90	.16	.05			.28	.00	99.90	
HSMRC-CONC	-32+80HPY	7722	21	401	CP	CPX	-	Gr	52.49	.26	3.33		1.09		6.10	17.78	18.28	.16	.01			.30	0.00	99.80	
HSMRC-CONC	-32+80HPY	7722	21	404	CP	CPX	-	Gr	52.06	.30	3.37		1.16		5.68	16.83	19.98	.16	.04			.30	.00	99.89	
HSMRC-CONC	-32+80HPY	7722	21	405	CP	CPX	-	Gr	52.75	.35	2.02		1.20		5.31	16.68	20.62	.11	.06			.46	.00	99.57	
HSMRC-CONC	-32+80HPY	7722	21	406	CP	CPX	-	Gr	53.30	.32	1.32		1.12		5.74	17.69	19.11	.17	.08			.45	0.00	99.28	
HSMRC-CONC	-32+80HPY	7722	21	408	CP	CPX	-	Gr	52.22	.26	3.12		1.06		5.59	17.49	19.62	.15	.05			.31	.01	99.89	
HSMRC-CONC	-32+80HPY	7722	21	409	CP	CPX	-	Gr	53.24	.34	1.46		1.19		5.60	17.66	18.90	.16	.03			.44	.00	99.03	
HSMRC-CONC	-32+80HPY	7722	21	414	CP	CPX	-	Gr	52.17	.28	3.04		1.07		5.20	16.89	20.34	.14	.04			.29	.01	99.49	
HSMRC-CONC	-32+80HPY	7722	21	415	CP	CPX	-	Gr	51.86	.27	3.19		1.12		5.49	17.34	20.02	.16	.04			.29	.00	99.76	
HSMRC-CONC	-32+80HPY	7722	30	407	CP	CPX	-	Gr	52.16	.28	3.44		1.05		5.49	17.77	19.34	.15	.04			.31	.00	100.02	
HSMRC-CONC	-32+80HPY	7722	30	504	CP	CPX	-	Gr	52.35	.24	3.05		1.01		5.40	17.01	19.88	.16	.03			.27	0.00	99.39	
HSMRC-CONC	-32+80HPY	7722	30	508	CP	CPX	-	Gr	52.94	.19	2.53		1.16		6.06	18.28	17.99	.17	.04			.27	0.00	99.63	
HSMRC-CONC	-32+80HPY	7722	30	908	CP	CPX	-	Gr	53.34	.35	1.59		1.18		5.45	17.05	19.84	.13	.05			.50	0.00	99.49	
HSMRC-CONC	-32+80HPY	7722	30	911	CP	CPX	-	Gr	51.97	.27	3.48		1.31		5.42	17.01	19.77	.14	.05			.29	.00	99.71	
HSMRC-CONC	-32+80HPY	7722	31	104	CP	CPX	-	Gr	52.25	.27	3.20		1.04		5.67	17.60	19.61	.15	.05			.28	.01	100.15	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C T (Zn) °C															Na2O wt %	K2O wt %
HSMRC-CONC	-32+80HPY	7722	31	105	CP	CPX	-	Gr	52.23	.27	3.36		1.10		5.63	17.38	19.64	.12	.02			.31	0.00	100.08	
HSMRC-CONC	-32+80HPY	7722	31	214	CP	CPX	-	Gr	53.24	.20	2.26		.84		5.63	17.95	19.27	.15	.00			.28	.00	99.81	
HSMRC-CONC	-32+80HPY	7722	31	301	CP	CPX	-	Gr	52.12	.26	3.28		1.10		5.49	17.01	20.05	.15	.03			.28	.00	99.77	
HSMRC-CONC	-32+80HPY	7722	31	303	CP	CPX	-	Gr	51.70	.32	3.61		1.22		5.65	16.48	19.90	.16	0.00			.30	.02	99.36	
HSMRC-CONC	-32+80HPY	7722	31	305	CP	CPX	-	Gr	53.31	.21	2.15		.64		5.71	17.45	19.70	.15	.01			.22	.00	99.56	
HSMRC-CONC	-32+80HPY	7722	31	306	CP	CPX	-	Gr	51.79	.20	3.33		1.28		5.41	16.12	20.89	.17	.06			.20	.00	99.45	
HSMRC-CONC	-32+80HPY	7729	21	302	CP	CPX	-	Gr	53.19	.17	2.43		1.11		7.18	20.32	14.67	.21	.06			.24	.00	99.58	
HSMRC-CONC	-32+80HPY	7729	21	307	CP	CPX	-	Gr	52.01	.30	3.32		.97		6.07	17.18	19.36	.15	.03			.31	0.00	99.71	
HSMRC-CONC	-32+80HPY	7729	30	306	CP	CPX	-	Gr	51.77	.33	3.74		1.01		6.08	16.45	19.71	.14	.04			.31	0.00	99.58	
HSMRC-CONC	-32+80HPY	7729	30	310	CP	CPX	-	Gr	51.29	.31	3.95		1.28		5.97	16.57	19.39	.18	.07			.31	.00	99.32	
HSMRC-CONC	-32+80HPY	7729	30	610	CP	CPX	-	Gr	53.30	.38	1.56		1.06		6.08	17.38	19.67	.14	.04			.50	.01	100.11	
HSMRC-CONC	-32+80HPY	7729	31	402	CP	CPX	-	Gr	52.78	.22	2.61		.86		6.15	17.23	18.78	.16	.05			.25	.00	99.10	
HSMRC-CONC	-32+80HPY	7729	31	408	CP	CPX	-	Gr	51.91	.31	3.88		1.25		5.65	16.36	19.46	.14	.05			.30	.01	99.32	
HSMRC-CONC	-32+80HPY	7729	31	503	CP	CPX	-	Gr	53.14	.20	2.41		.82		5.73	17.34	19.29	.14	.05			.31	0.00	99.44	
HSMRC-CONC	-32+80HPY	7729	31	504	CP	CPX	-	Gr	52.94	.23	2.56		.88		5.51	17.14	19.49	.14	.05			.28	.01	99.22	
HSMRC-CONC	-32+80HPY	7729	40	102	CP	CPX	-	Gr	52.95	.22	2.84		.91		5.80	17.17	18.97	.15	0.00			.31	0.00	99.33	
HSMRC-CONC	-32+80HPY	7729	40	206	CP	CPX	-	Gr	51.70	.33	3.73		1.12		6.14	16.21	19.40	.16	.02			.31	.01	99.13	
HSMRC-CONC	-32+80HPY	7729	40	610	CP	CPX	-	Gr	52.07	.31	3.64		.99		5.74	16.24	19.70	.16	.06			.31	.00	99.22	
HSMRC-CONC	-32+80HPY	7722	30	308	E	G 9		HPM	41.89	.58	22.85		.42		11.06	18.70	4.58	.38	.02			.082	.00	100.55	
HSMRC-CONC	-32+80HPY	7729	20	909	E	G 9		HPM	42.03	.20	22.94		1.72		8.02	20.61	4.30	.45	0.00			.053	.01	100.31	
HSMRC-CONC	-32+80HPY	7729	21	511	E	G 9		HPM	41.15	.67	22.26		.98		12.20	18.09	4.78	.43	.01			.086	.00	100.65	
HSMRC-CONC	-32+80HPY	7729	31	102	E	G 9		HPM	41.59	.03	23.45		.87		9.97	18.75	4.82	.49	.00			.032	.00	100.02	
HSMRC-CONC	-32+80HPY	7729	31	113	E	G 9		HPM	41.11	.53	21.83		1.98		9.60	19.05	4.87	.41	.02			.066	.01	99.45	
HSMRC-CONC	-32+80HPY	7729	31	114	E	G 9		HPM	41.63	.31	23.37		.78		8.70	20.23	4.29	.39	.03			.053	.00	99.79	
HSMRC-CONC	-32+80HPY	7729	31	115	E	G 9		HPM	41.67	.53	22.25		1.42		9.66	19.20	4.70	.35	.01			.063	.01	99.85	
HSMRC-CONC	-32+80HPY	7729	31	202	E	G 9		HPM	42.06	.32	23.26		.74		8.68	20.20	4.36	.42	0.00			.060	.01	100.09	
HSMRC-CONC	-32+80HPY	7729	31	207	E	G 9		HPM	41.53	.60	21.64		1.62		10.10	18.56	5.49	.43	0.00			.051	0.00	100.00	
HSMRC-CONC	-32+80HPY	7729	31	208	E	G 9		HPM	41.93	.19	22.82		1.69		8.31	20.19	4.30	.42	0.00			.049	.01	99.90	
HSMRC-CONC	-32+80HPY	7700	20	113	E	G 9		HPM*	41.95	.62	22.10		1.47		9.52	19.15	5.28	.38	.02			.044	0.00	100.53	
HSMRC-CONC	-32+80HPY	7722	31	209	E	G 9		HPM*	42.02	.52	21.84		1.75		9.19	20.02	4.68	.31	.05			.066	0.00	100.43	
HSMRC-CONC	-32+80HPY	7722	31	211	E	G 9		HPM*	41.67	1.24	21.16		1.71		9.46	19.19	5.24	.30	.03			.077	.00	100.07	
HSMRC-CONC	-32+80HPY	7722	40	607	E	G 9		HPM*	41.38	.45	22.82		.87		9.18	20.08	4.64	.33	.00			.063	0.00	99.81	
HSMRC-CONC	-32+80HPY	7722	40	608	E	G 9		HPM*	41.68	1.22	21.22		1.76		9.51	19.16	5.23	.31	.01			.074	.01	100.18	
HSMRC-CONC	-32+80HPY	7722	40	609	E	G 9		HPM*	41.53	1.24	21.05		1.73		9.63	19.23	5.29	.30	.02			.079	0.00	100.10	
HSMRC-CONC	-32+80HPY	7729	31	116	E	G 9		HPM/G1	42.11	.21	22.79		1.75		8.04	20.23	4.32	.42	0.00			.043	.00	99.89	
HSMRC-CONC	-32+80HPY	7729	31	203	E	G 9		HPM/G1	41.46	.33	22.68		1.20		8.73	20.12	4.56	.41	.02			.065	.01	99.59	
HSMRC-CONC	-32+80HPY	7729	31	206	E	G 9		HPM/G1	41.44	.63	21.46		1.94		8.99	19.14	5.49	.34	0.00			.035	.01	99.48	
HSMRC-CONC	-32+80HPY	7729	31	206	E	G 9		HPM/G1	41.44	.64	21.93		1.31		9.83	18.70	5.34	.39	0.00			.065	.00	99.59	
HSMRC-CONC	-32+80HPY	7729	31	201	E	G 9		HPM/G2	41.96	.30	23.32		.79		8.62	20.19	4.28	.42	.01			.055	.00	99.92	
HSMRC-CONC	-32+80HPY	7722	30	301	E	G 9		LPM*	41.54	.14	22.60		1.60		9.40	19.73	4.57	.43	.02			.023	0.00	100.06	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
HSMRC-CONC	-32+80HPY	7700	20	202	P	G	3			40.86	.12	20.96		3.53		12.65	15.46	6.29	.67	0.00			.02	0.00	100.57
HSMRC-CONC	-32+80HPY	7722	31	201	P	G	3			40.66	.11	20.70		3.83		12.62	15.50	6.37	.67	.02			.02	0.00	100.50
HSMRC-CONC	-32+80HPY	7700	20	201	P	G	9			42.19	.11	22.03		3.17		7.71	19.45	5.30	.43	0.00			.03	0.00	100.42
HSMRC-CONC	-32+80HPY	7700	20	205	P	G	9			42.11	.26	22.39		2.46		8.06	19.90	4.95	.41	.03			.04	0.00	100.61
HSMRC-CONC	-32+80HPY	7700	20	208	P	G	9			41.58	.12	20.42		4.52		7.61	19.24	5.54	.39	.01			.01	.00	99.45
HSMRC-CONC	-32+80HPY	7700	20	212	P	G	9			41.79	.01	21.14		4.47		7.03	19.65	5.64	.46	.02			.01	0.00	100.23
HSMRC-CONC	-32+80HPY	7722	21	307	P	G	9			41.40	.07	21.05		4.23		8.58	18.22	5.92	.51	0.00			.02	0.00	100.01
HSMRC-CONC	-32+80HPY	7722	30	204	P	G	9			41.41	.23	20.91		4.19		8.10	19.00	5.46	.41	0.00			.02	0.00	99.74
HSMRC-CONC	-32+80HPY	7722	30	206	P	G	9			41.96	.18	21.96		2.92		7.84	19.59	5.10	.39	0.00			.03	0.00	99.97
HSMRC-CONC	-32+80HPY	7722	30	906	P	G	9			41.67	.12	20.68		4.53		7.48	19.30	5.55	.42	.03			.02	.00	99.81
HSMRC-CONC	-32+80HPY	7722	31	112	P	G	9			41.72	.09	21.30		3.64		8.42	18.74	5.42	.46	0.00			.02	.00	99.81
HSMRC-CONC	-32+80HPY	7722	31	205	P	G	9			41.49	.59	19.88		4.33		7.20	20.36	5.52	.28	.00			.04	.00	99.70
HSMRC-CONC	-32+80HPY	7722	31	206	P	G	9			41.36	.10	21.85		3.10		7.58	19.99	5.33	.45	0.00			.03	.01	99.80
HSMRC-CONC	-32+80HPY	7722	31	207	P	G	9			42.14	.59	21.55		2.38		7.85	19.88	5.36	.26	.02			.05	0.00	100.08
HSMRC-CONC	-32+80HPY	7722	40	512	P	G	9			41.79	.51	20.88		3.31		8.21	19.12	5.55	.34	.04			.05	.01	99.78
HSMRC-CONC	-32+80HPY	7722	40	513	P	G	9			41.67	.45	20.96		3.37		8.18	19.94	5.40	.34	0.00			.03	0.00	100.34
HSMRC-CONC	-32+80HPY	7722	40	514	P	G	9			41.90	.25	22.08		2.51		8.02	19.81	4.94	.41	0.00			.04	.01	99.96
HSMRC-CONC	-32+80HPY	7729	20	914	P	G	9			42.14	.16	21.59		3.28		6.86	20.78	5.30	.29	0.00			.02	0.00	100.42
HSMRC-CONC	-32+80HPY	7729	30	105	P	G	9			41.62	.00	21.19		4.29		7.44	19.69	5.73	.50	.02			.02	0.00	100.50
HSMRC-CONC	-32+80HPY	7729	30	209	P	G	9			41.41	.23	20.77		4.05		8.16	19.43	5.42	.44	.01			.03	.00	99.96
HSMRC-CONC	-32+80HPY	7729	30	303	P	G	9			41.61	.60	20.14		4.41		7.34	20.35	5.58	.30	.02			.05	.00	100.40
HSMRC-CONC	-32+80HPY	7729	30	410	P	G	9			41.92	.20	21.88		3.08		7.96	20.15	5.10	.37	0.00			.05	0.00	100.71
HSMRC-CONC	-32+80HPY	7729	30	501	P	G	9			41.58	.10	22.10		3.10		7.76	19.93	5.20	.47	.00			.02	0.00	100.27
HSMRC-CONC	-32+80HPY	7729	30	502	P	G	9			41.90	.48	21.54		2.95		8.22	20.15	5.38	.31	.00			.05	0.00	100.99
HSMRC-CONC	-32+80HPY	7729	30	503	P	G	9			41.83	.43	21.54		2.77		7.69	20.58	5.19	.28	0.00			.02	.01	100.34
HSMRC-CONC	-32+80HPY	7729	30	506	P	G	9			41.59	.11	20.57		4.54		7.64	19.70	5.56	.42	.01			.04	0.00	100.18
HSMRC-CONC	-32+80HPY	7729	30	903	P	G	9			41.80	0.00	21.66		3.78		7.37	19.92	5.39	.52	.01			.03	.00	100.48
HSMRC-CONC	-32+80HPY	7729	30	915	P	G	9			41.13	.27	20.27		4.39		7.55	19.16	5.53	.43	0.00			.04	.01	98.78
HSMRC-CONC	-32+80HPY	7729	31	101	P	G	9			41.47	.57	20.00		4.04		7.14	19.81	5.54	.36	.02			.05	.00	98.99
HSMRC-CONC	-32+80HPY	7729	31	104	P	G	9			41.12	.11	20.33		4.53		7.55	19.39	5.53	.40	0.00			.02	.01	98.99
HSMRC-CONC	-32+80HPY	7729	31	204	P	G	9			41.36	.52	20.31		3.56		8.34	19.26	5.60	.36	.03			.04	0.00	99.38
HSMRC-CONC	-32+80HPY	7729	40	604	P	G	9			41.40	.48	21.28		2.45		9.11	19.25	4.93	.38	0.00			.05	.00	99.34
HSMRC-CONC	-32+80HPY	7700	20	204	P	G	9-1			41.26	.15	20.68		4.28		7.65	19.26	5.23	.40	.00			.04	0.00	98.95
HSMRC-CONC	-32+80HPY	7700	20	206	P	G	9-1			42.17	.35	21.76		2.66		7.18	20.62	4.82	.29	.00			.04	0.00	99.89
HSMRC-CONC	-32+80HPY	7722	21	201	P	G	9-1			41.40	.33	21.39		2.77		7.11	21.19	4.87	.30	.04			.04	0.00	99.43
HSMRC-CONC	-32+80HPY	7722	21	205	P	G	9-1			41.75	.22	20.92		3.96		7.34	19.93	4.90	.36	0.00			.04	.00	99.40
HSMRC-CONC	-32+80HPY	7722	21	208	P	G	9-1			42.12	.09	22.64		2.42		8.06	19.84	4.57	.39	.01			.02	0.00	100.14
HSMRC-CONC	-32+80HPY	7722	21	212	P	G	9-1			41.79	.25	21.34		3.31		7.93	20.08	5.10	.35	0.00			.02	.00	100.18
HSMRC-CONC	-32+80HPY	7722	21	214	P	G	9-1			41.92	.02	22.14		3.03		7.66	20.09	4.48	.49	0.00			.01	.00	99.84
HSMRC-CONC	-32+80HPY	7722	21	309	P	G	9-1			41.90	.28	20.91		4.18		7.13	20.06	5.05	.35	.02			.05	.00	99.92

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																	
					SA	CFM	DI	M	C	T (Zn)	SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Na2O	K2O	Total
										°C	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
HSMRC-CONC	-32+80HPY	7722	30	113	P	G	9-1			41.73	.57	20.52		3.98		7.67	19.61	5.20	.35	.04			.05	.00	99.72		
HSMRC-CONC	-32+80HPY	7722	30	209	P	G	9-1			42.06	.42	21.90		2.48		7.04	20.66	4.86	.31	.02			.04	.00	99.79		
HSMRC-CONC	-32+80HPY	7722	30	302	P	G	9-1			41.82	.20	21.77		3.31		7.91	19.91	5.11	.40	0.00			.04	.00	100.46		
HSMRC-CONC	-32+80HPY	7722	30	305	P	G	9-1			41.78	.02	21.92		3.63		7.99	19.71	4.57	.56	0.00			.01	.00	100.18		
HSMRC-CONC	-32+80HPY	7722	30	306	P	G	9-1			41.53	.23	21.30		3.26		7.87	20.29	5.09	.38	.03			.04	0.00	100.02		
HSMRC-CONC	-32+80HPY	7722	30	712	P	G	9-1			42.05	0.00	21.30		4.36		7.05	20.04	5.22	.44	.00			.00	.00	100.45		
HSMRC-CONC	-32+80HPY	7722	30	811	P	G	9-1			41.36	.11	20.96		4.16		7.52	20.61	4.99	.37	0.00			.05	0.00	100.11		
HSMRC-CONC	-32+80HPY	7722	30	902	P	G	9-1			41.44	.02	21.65		3.37		7.78	20.15	4.73	.54	.02			.00	0.00	99.69		
HSMRC-CONC	-32+80HPY	7722	30	905	P	G	9-1			41.63	.26	21.37		3.47		7.86	19.54	5.08	.35	0.00			.04	.00	99.59		
HSMRC-CONC	-32+80HPY	7722	31	113	P	G	9-1			41.78	.22	21.51		3.22		7.83	19.80	5.10	.39	0.00			.04	.00	99.88		
HSMRC-CONC	-32+80HPY	7722	31	115	P	G	9-1			41.90	.29	21.38		3.27		7.74	19.94	5.06	.36	.01			.04	.00	100.00		
HSMRC-CONC	-32+80HPY	7722	31	203	P	G	9-1			41.39	.15	21.88		2.73		7.93	20.39	4.87	.36	.06			.02	0.00	99.78		
HSMRC-CONC	-32+80HPY	7722	40	503	P	G	9-1			41.85	.28	20.77		4.10		6.48	20.81	4.97	.32	0.00			.04	0.00	99.63		
HSMRC-CONC	-32+80HPY	7722	40	510	P	G	9-1			41.76	.15	20.82		4.54		6.66	20.20	5.15	.37	.01			.04	0.00	99.69		
HSMRC-CONC	-32+80HPY	7729	20	908	P	G	9-1			42.05	.32	21.82		2.63		7.22	20.98	4.75	.32	.03			.04	.00	100.16		
HSMRC-CONC	-32+80HPY	7729	20	912	P	G	9-1			41.81	0.00	21.68		3.83		7.30	20.18	5.06	.40	0.00			.01	0.00	100.28		
HSMRC-CONC	-32+80HPY	7729	20	913	P	G	9-1			41.62	.28	21.41		3.49		7.81	20.15	5.09	.34	.01			.03	.00	100.24		
HSMRC-CONC	-32+80HPY	7729	21	105	P	G	9-1			41.53	.29	21.34		3.43		7.89	20.00	5.05	.36	.03			.04	.00	99.97		
HSMRC-CONC	-32+80HPY	7729	21	106	P	G	9-1			41.58	.03	21.55		3.80		7.35	20.22	5.11	.43	0.00			.01	.01	100.07		
HSMRC-CONC	-32+80HPY	7729	21	107	P	G	9-1			41.79	.00	21.80		3.82		7.30	20.44	5.01	.40	0.00			.03	.00	100.58		
HSMRC-CONC	-32+80HPY	7729	21	108	P	G	9-1			41.64	.17	21.16		4.41		6.69	20.34	5.20	.39	0.00			.03	.00	100.03		
HSMRC-CONC	-32+80HPY	7729	21	110	P	G	9-1			41.86	.18	21.15		3.91		7.61	20.30	5.20	.40	.04			.03	0.00	100.68		
HSMRC-CONC	-32+80HPY	7729	30	102	P	G	9-1			42.25	.15	22.75		2.35		7.54	20.92	4.58	.40	.03			.02	.00	100.99		
HSMRC-CONC	-32+80HPY	7729	30	106	P	G	9-1			42.13	.19	22.68		2.13		8.40	20.14	4.72	.39	0.00			.03	0.00	100.80		
HSMRC-CONC	-32+80HPY	7729	30	201	P	G	9-1			41.53	.15	21.24		3.88		7.53	20.25	5.21	.37	0.00			.02	0.00	100.18		
HSMRC-CONC	-32+80HPY	7729	30	208	P	G	9-1			41.73	.26	20.88		4.49		6.70	20.80	5.06	.33	.03			.05	.00	100.32		
HSMRC-CONC	-32+80HPY	7729	30	212	P	G	9-1			41.72	.30	20.99		3.93		6.63	20.57	4.93	.35	.03			.05	0.00	99.51		
HSMRC-CONC	-32+80HPY	7729	30	214	P	G	9-1			41.70	.10	21.19		4.04		7.61	20.23	4.95	.39	.01			.04	.00	100.28		
HSMRC-CONC	-32+80HPY	7729	30	407	P	G	9-1			41.82	.37	21.97		2.85		7.77	20.26	4.93	.36	0.00			.05	0.00	100.37		
HSMRC-CONC	-32+80HPY	7729	30	408	P	G	9-1			41.83	.17	21.40		3.67		7.64	20.27	5.14	.38	.00			.03	0.00	100.53		
HSMRC-CONC	-32+80HPY	7729	30	409	P	G	9-1			41.95	.29	21.02		4.10		6.54	20.90	5.10	.34	.01			.05	0.00	100.30		
HSMRC-CONC	-32+80HPY	7729	30	413	P	G	9-1			41.74	.01	22.02		3.13		7.92	19.98	5.01	.51	0.00			.02	.01	100.34		
HSMRC-CONC	-32+80HPY	7729	30	508	P	G	9-1			42.01	.40	21.28		3.19		6.97	21.14	4.96	.30	.03			.04	0.00	100.34		
HSMRC-CONC	-32+80HPY	7729	30	509	P	G	9-1			41.34	.25	20.45		4.41		7.61	19.77	5.47	.37	.01			.04	0.00	99.72		
HSMRC-CONC	-32+80HPY	7729	30	510	P	G	9-1			41.73	.14	21.35		3.93		7.62	20.27	5.11	.37	0.00			.02	0.00	100.54		
HSMRC-CONC	-32+80HPY	7729	30	904	P	G	9-1			41.60	.18	20.69		4.31		6.63	20.13	5.17	.40	0.00			.04	.00	99.15		
HSMRC-CONC	-32+80HPY	7729	30	910	P	G	9-1			41.49	.19	21.26		3.22		7.97	19.63	5.06	.40	.02			.03	0.00	99.27		
HSMRC-CONC	-32+80HPY	7729	30	911	P	G	9-1			41.50	.26	20.69		3.90		7.57	19.97	4.94	.41	0.00			.05	.00	99.29		
HSMRC-CONC	-32+80HPY	7729	30	913	P	G	9-1			41.85	.01	21.15		3.84		7.47	19.69	5.01	.41	0.00			.01	0.00	99.44		
HSMRC-CONC	-32+80HPY	7729	31	103	P	G	9-1			41.73	.29	20.57		3.96		6.57	20.45	5.12	.31	.01			.04	0.00	99.05		

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																
					SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %
HSMRC-CONC	-32+80HPY	7729	31	106	P	G	9-1			41.58	.28	20.72		4.28		6.72	20.49	5.00	.38	.04				.07	0.00	99.55
HSMRC-CONC	-32+80HPY	7729	31	108	P	G	9-1			41.40	.11	20.39		4.56		7.76	19.23	5.49	.42	.02				.02	.01	99.41
HSMRC-CONC	-32+80HPY	7729	31	111	P	G	9-1			42.08	.42	21.91		2.33		7.22	20.68	4.78	.30	0.00				.04	.01	99.77
HSMRC-CONC	-32+80HPY	7729	40	602	P	G	9-1			41.68	.33	21.34		3.16		6.93	20.50	4.91	.36	0.00				.04	0.00	99.24
HSMRC-CONC	-32+80HPY	7700	20	209	P	G	10-2			42.01	.15	20.64		4.93		6.76	21.17	3.75	.40	.03				.05	.00	99.89
HSMRC-CONC	-32+80HPY	7700	20	207	P	G	11			41.85	.11	20.60		4.79		7.51	19.35	5.65	.37	.00				.04	.00	100.29
HSMRC-CONC	-32+80HPY	7700	20	211	P	G	11			41.45	.04	19.45		6.20		7.09	18.87	6.34	.48	.01				.02	.00	99.94
HSMRC-CONC	-32+80HPY	7722	21	204	P	G	11			41.77	.12	20.65		4.65		7.61	19.26	5.58	.41	.04				.02	.00	100.10
HSMRC-CONC	-32+80HPY	7722	21	206	P	G	11			41.74	.06	20.61		5.08		7.24	19.27	5.70	.47	.03				.01	0.00	100.21
HSMRC-CONC	-32+80HPY	7722	21	209	P	G	11			41.61	.02	19.18		6.22		6.40	19.60	6.15	.31	.01				.01	.00	99.52
HSMRC-CONC	-32+80HPY	7722	21	213	P	G	11			41.64	0.00	20.47		5.07		6.95	19.16	6.01	.46	.03				.01	.01	99.81
HSMRC-CONC	-32+80HPY	7722	21	215	P	G	11			41.14	.08	18.01		7.83		6.00	19.41	6.56	.29	.00				0.00	.00	99.32
HSMRC-CONC	-32+80HPY	7722	21	301	P	G	11			41.62	.13	20.39		4.66		7.57	19.29	5.63	.41	.02				.04	.00	99.75
HSMRC-CONC	-32+80HPY	7722	21	304	P	G	11			41.34	.08	19.50		5.96		7.66	18.52	6.32	.42	0.00				.01	0.00	99.81
HSMRC-CONC	-32+80HPY	7722	21	305	P	G	11			41.54	0.00	20.14		5.61		6.96	18.85	6.35	.49	.01				.02	0.00	99.97
HSMRC-CONC	-32+80HPY	7722	21	306	P	G	11			41.32	.08	19.65		5.82		7.63	18.83	6.23	.42	0.00				.01	.00	100.00
HSMRC-CONC	-32+80HPY	7722	30	201	P	G	11			41.59	.26	20.59		4.64		7.41	19.46	5.64	.43	.01				.03	.00	100.06
HSMRC-CONC	-32+80HPY	7722	30	205	P	G	11			41.54	.04	19.10		6.17		6.51	19.51	6.37	.31	.00				.00	0.00	99.55
HSMRC-CONC	-32+80HPY	7722	30	207	P	G	11			41.44	.06	20.39		5.05		7.31	19.30	5.71	.42	.01				.00	.00	99.70
HSMRC-CONC	-32+80HPY	7722	30	213	P	G	11			40.81	.29	16.61		8.97		6.97	18.32	7.01	.43	.00				.04	.00	99.44
HSMRC-CONC	-32+80HPY	7722	30	303	P	G	11			41.05	.06	19.12		6.23		7.15	19.04	6.12	.48	0.00				.01	0.00	99.26
HSMRC-CONC	-32+80HPY	7722	30	304	P	G	11			41.17	.07	19.72		5.49		7.72	19.24	5.81	.41	.01				.02	.00	99.65
HSMRC-CONC	-32+80HPY	7722	30	711	P	G	11			41.61	.12	20.64		4.75		7.47	19.17	5.60	.44	.01				.03	0.00	99.84
HSMRC-CONC	-32+80HPY	7722	30	806	P	G	11			41.63	.12	20.61		4.68		7.63	19.03	5.61	.40	0.00				.02	.01	99.74
HSMRC-CONC	-32+80HPY	7722	30	808	P	G	11			41.52	.01	20.25		5.49		6.97	18.84	6.40	.50	.02				0.00	.00	100.00
HSMRC-CONC	-32+80HPY	7722	30	809	P	G	11			41.15	.14	18.91		6.70		6.98	19.05	6.26	.37	.01				.04	0.00	99.60
HSMRC-CONC	-32+80HPY	7722	30	814	P	G	11			41.02	.08	19.27		5.96		7.65	19.04	6.21	.39	.01				.01	0.00	99.65
HSMRC-CONC	-32+80HPY	7722	30	901	P	G	11			41.47	.12	20.32		4.98		7.70	19.55	5.71	.42	.01				.02	.00	100.32
HSMRC-CONC	-32+80HPY	7722	40	504	P	G	11			40.98	.27	18.84		6.49		7.84	18.76	6.23	.39	.02				.03	.00	99.85
HSMRC-CONC	-32+80HPY	7722	40	508	P	G	11			41.25	.11	20.08		5.08		7.56	19.86	5.69	.41	0.00				.02	.01	100.08
HSMRC-CONC	-32+80HPY	7729	20	907	P	G	11			40.86	.04	20.62		4.58		9.94	17.61	6.03	.68	0.00				.02	.00	100.38
HSMRC-CONC	-32+80HPY	7729	20	911	P	G	11			41.33	.15	20.04		5.20		8.18	18.61	6.18	.48	.01				.02	0.00	100.21
HSMRC-CONC	-32+80HPY	7729	20	915	P	G	11			41.03	.04	19.98		5.46		8.10	18.54	6.33	.57	0.00				.03	.00	100.09
HSMRC-CONC	-32+80HPY	7729	21	103	P	G	11			40.82	.29	16.90		8.62		7.04	18.63	6.88	.40	.01				.04	.00	99.63
HSMRC-CONC	-32+80HPY	7729	21	112	P	G	11			41.69	.12	20.39		4.87		7.63	19.71	5.66	.42	.02				.02	0.00	100.53
HSMRC-CONC	-32+80HPY	7729	30	107	P	G	11			41.22	.03	19.41		6.41		7.32	18.98	6.39	.49	.01				.02	0.00	100.28
HSMRC-CONC	-32+80HPY	7729	30	111	P	G	11			41.60	.12	20.42		4.78		7.83	19.63	5.71	.44	.03				.04	0.00	100.58
HSMRC-CONC	-32+80HPY	7729	30	204	P	G	11			41.27	.01	20.20		5.40		7.02	19.16	6.19	.49	.01				.04	.00	99.79
HSMRC-CONC	-32+80HPY	7729	30	215	P	G	11			41.16	.24	19.10		6.41		7.77	18.80	6.19	.41	.00				.03	.00	100.13
HSMRC-CONC	-32+80HPY	7729	30	216	P	G	11			41.20	.57	18.95		5.76		7.09	19.60	6.12	.37	.01				.07	.00	99.73

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
HSMRC-CONC	-32+80HPY	7729	30	218	P	G11			41.68	.02	19.18		6.37		6.45	19.96	6.15	.30	.01			0.00		.01	100.12
HSMRC-CONC	-32+80HPY	7729	30	406	P	G11			41.18	.08	18.95		6.54		7.01	19.20	6.33	.39	.00			.00		.01	99.68
HSMRC-CONC	-32+80HPY	7729	30	412	P	G11			41.39	.02	20.10		5.50		7.07	19.14	6.32	.50	0.00			0.00		.00	100.04
HSMRC-CONC	-32+80HPY	7729	30	505	P	G11			41.58	.11	20.47		4.86		7.75	19.75	5.66	.45	.04			.03		0.00	100.71
HSMRC-CONC	-32+80HPY	7729	30	906	P	G11			41.23	.10	20.14		4.72		7.53	19.23	5.60	.40	0.00			.02		.00	98.97
HSMRC-CONC	-32+80HPY	7729	30	907	P	G11			41.38	.02	18.88		6.16		6.45	19.67	6.12	.30	.01			.02		0.00	98.99
HSMRC-CONC	-32+80HPY	7729	30	909	P	G11			41.12	.05	20.45		4.86		7.52	19.29	5.64	.45	.02			.02		.01	99.43
HSMRC-CONC	-32+80HPY	7729	30	912	P	G11			40.88	.04	19.67		5.49		7.98	18.26	6.35	.52	.01			.02		.00	99.22
HSMRC-CONC	-32+80HPY	7729	31	112	P	G11			40.77	.25	18.84		6.31		7.78	18.47	6.18	.47	0.00			.04		.00	99.10
HSMRC-CONC	-32+80HPY	7700	20	112	P	G11-1			41.33	.05	19.03		6.73		6.79	19.09	6.06	.36	.00			.00		.01	99.47
HSMRC-CONC	-32+80HPY	7700	20	203	P	G11-1			42.11	.25	20.33		4.92		7.37	19.64	5.47	.36	0.00			.04		.01	100.50
HSMRC-CONC	-32+80HPY	7722	21	202	P	G11-1			41.58	.25	20.05		4.86		7.42	19.37	5.47	.38	0.00			.04		0.00	99.42
HSMRC-CONC	-32+80HPY	7722	21	203	P	G11-1			41.41	.24	20.21		5.27		7.31	19.55	5.48	.37	0.00			.04		.01	99.88
HSMRC-CONC	-32+80HPY	7722	21	207	P	G11-1			41.42	.18	19.61		5.91		6.97	19.45	5.63	.39	0.00			.03		.01	99.61
HSMRC-CONC	-32+80HPY	7722	21	210	P	G11-1			41.25	.62	19.18		5.35		7.01	20.22	5.69	.34	0.00			.08		0.00	99.73
HSMRC-CONC	-32+80HPY	7722	21	211	P	G11-1			41.45	.60	19.50		5.17		6.99	19.59	5.63	.38	.02			.05		.00	99.38
HSMRC-CONC	-32+80HPY	7722	21	302	P	G11-1			41.44	.26	20.03		5.26		7.35	19.43	5.49	.37	.03			.04		0.00	99.69
HSMRC-CONC	-32+80HPY	7722	21	303	P	G11-1			41.56	.63	19.75		5.10		7.01	19.84	5.58	.33	0.00			.04		0.00	99.84
HSMRC-CONC	-32+80HPY	7722	21	308	P	G11-1			41.84	.11	20.61		4.59		7.52	19.14	5.51	.38	.04			.03		.00	99.76
HSMRC-CONC	-32+80HPY	7722	30	114	P	G11-1			41.58	.25	19.91		5.00		7.18	19.64	5.46	.39	.02			.05		0.00	99.48
HSMRC-CONC	-32+80HPY	7722	30	203	P	G11-1			41.31	.24	18.38		6.98		6.82	19.55	6.06	.30	.04			.01		.00	99.69
HSMRC-CONC	-32+80HPY	7722	30	208	P	G11-1			41.52	.26	19.91		5.43		7.37	19.46	5.59	.38	0.00			.05		0.00	99.96
HSMRC-CONC	-32+80HPY	7722	30	210	P	G11-1			41.83	.17	20.88		4.62		6.53	20.19	5.24	.38	.01			.05		.00	99.90
HSMRC-CONC	-32+80HPY	7722	30	211	P	G11-1			41.50	.20	19.35		6.26		6.60	19.84	5.69	.32	0.00			.02		.00	99.79
HSMRC-CONC	-32+80HPY	7722	30	212	P	G11-1			41.66	.20	19.18		6.27		6.49	19.73	5.80	.32	0.00			.01		.01	99.66
HSMRC-CONC	-32+80HPY	7722	30	214	P	G11-1			41.29	.16	20.54		4.97		6.53	20.79	5.17	.38	.02			.02		.01	99.88
HSMRC-CONC	-32+80HPY	7722	30	215	P	G11-1			41.47	.12	20.39		4.99		7.51	19.50	5.63	.39	0.00			.02		0.00	100.02
HSMRC-CONC	-32+80HPY	7722	30	710	P	G11-1			41.05	.04	18.91		6.89		6.81	19.29	6.09	.37	.02			.00		0.00	99.48
HSMRC-CONC	-32+80HPY	7722	30	810	P	G11-1			41.23	.26	19.88		5.17		7.31	19.87	5.55	.41	.03			.05		0.00	99.77
HSMRC-CONC	-32+80HPY	7722	30	812	P	G11-1			41.51	.02	20.72		4.57		7.55	20.13	4.97	.47	.00			.02		.00	99.96
HSMRC-CONC	-32+80HPY	7722	30	813	P	G11-1			41.47	.20	19.21		6.32		6.38	20.00	5.73	.31	.03			.03		.00	99.70
HSMRC-CONC	-32+80HPY	7722	30	903	P	G11-1			41.51	.57	19.61		5.08		7.10	19.95	5.54	.35	0.00			.06		0.00	99.76
HSMRC-CONC	-32+80HPY	7722	30	904	P	G11-1			41.52	.63	20.03		4.97		7.05	19.65	5.60	.36	0.00			.05		0.00	99.86
HSMRC-CONC	-32+80HPY	7722	31	114	P	G11-1			41.85	.18	20.84		4.76		6.52	20.43	5.19	.37	.03			.04		.00	100.20
HSMRC-CONC	-32+80HPY	7722	31	202	P	G11-1			41.44	.27	19.35		5.87		7.17	19.37	5.70	.36	0.00			.03		.00	99.58
HSMRC-CONC	-32+80HPY	7722	31	204	P	G11-1			41.17	.26	20.11		5.13		7.26	20.03	5.46	.39	.01			.02		0.00	99.84
HSMRC-CONC	-32+80HPY	7722	31	208	P	G11-1			41.40	.25	20.08		5.12		7.24	19.59	5.48	.41	0.00			.04		0.00	99.61
HSMRC-CONC	-32+80HPY	7722	40	502	P	G11-1			41.25	.22	20.18		5.15		7.21	20.45	5.39	.41	.02			.02		.00	100.30
HSMRC-CONC	-32+80HPY	7722	40	505	P	G11-1			41.16	.61	19.59		5.20		6.96	20.30	5.52	.36	.04			.06		.01	99.80
HSMRC-CONC	-32+80HPY	7722	40	511	P	G11-1			41.22	.12	20.35		4.79		7.50	19.76	5.59	.39	.03			.01		.01	99.78

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
HSMRC-CONC	-32+80HPY	7729	20	906	P	G11-1			41.40	.59	19.92		4.92		7.22	20.20	5.49	.39	.00			.09	.01	100.24	
HSMRC-CONC	-32+80HPY	7729	20	910	P	G11-1			41.40	.12	20.47		4.87		7.63	19.57	5.58	.41	0.00			.03	.00	100.07	
HSMRC-CONC	-32+80HPY	7729	21	101	P	G11-1			41.34	.25	20.29		4.99		7.52	19.92	5.47	.38	0.00			.06	0.00	100.21	
HSMRC-CONC	-32+80HPY	7729	21	102	P	G11-1			41.37	.06	19.02		6.82		6.89	19.57	6.01	.41	0.00			.04	.00	100.19	
HSMRC-CONC	-32+80HPY	7729	21	109	P	G11-1			41.42	.13	20.48		4.73		7.64	19.55	5.56	.42	0.00			.02	0.00	99.95	
HSMRC-CONC	-32+80HPY	7729	21	111	P	G11-1			41.57	.06	20.65		5.00		7.41	19.62	5.57	.45	0.00			.04	.00	100.37	
HSMRC-CONC	-32+80HPY	7729	21	113	P	G11-1			41.22	.14	19.51		6.55		7.06	19.72	5.57	.45	0.00			.04	.01	100.27	
HSMRC-CONC	-32+80HPY	7729	30	101	P	G11-1			41.30	.18	19.23		6.00		7.07	19.79	5.78	.37	.00			.02	.00	99.74	
HSMRC-CONC	-32+80HPY	7729	30	103	P	G11-1			41.40	.05	19.03		6.73		6.91	19.46	6.11	.41	0.00			.02	0.00	100.12	
HSMRC-CONC	-32+80HPY	7729	30	104	P	G11-1			41.61	.26	20.28		5.04		7.46	20.03	5.42	.38	0.00			.03	0.00	100.53	
HSMRC-CONC	-32+80HPY	7729	30	108	P	G11-1			41.66	.25	20.07		5.12		7.56	19.83	5.53	.40	.01			.03	0.00	100.48	
HSMRC-CONC	-32+80HPY	7729	30	109	P	G11-1			41.56	.07	19.22		6.80		6.74	19.62	5.83	.40	0.00			.03	.01	100.29	
HSMRC-CONC	-32+80HPY	7729	30	110	P	G11-1			41.60	.58	19.91		4.82		7.06	20.37	5.53	.37	.04			.08	.00	100.35	
HSMRC-CONC	-32+80HPY	7729	30	112	P	G11-1			41.60	.26	20.25		4.88		7.50	19.93	5.45	.38	.03			.05	0.00	100.34	
HSMRC-CONC	-32+80HPY	7729	30	202	P	G11-1			41.43	.10	19.92		5.72		6.69	20.16	5.58	.41	.01			.04	.00	100.08	
HSMRC-CONC	-32+80HPY	7729	30	203	P	G11-1			41.43	.26	19.62		5.72		7.30	19.79	5.62	.38	.02			.04	0.00	100.17	
HSMRC-CONC	-32+80HPY	7729	30	205	P	G11-1			41.50	.19	19.71		5.86		6.55	20.30	5.50	.34	.01			.03	0.00	100.00	
HSMRC-CONC	-32+80HPY	7729	30	206	P	G11-1			41.59	.20	20.24		5.00		7.53	19.91	5.40	.40	.02			.04	0.00	100.33	
HSMRC-CONC	-32+80HPY	7729	30	207	P	G11-1			41.65	.26	20.08		5.21		7.46	19.85	5.48	.38	.03			.04	.01	100.45	
HSMRC-CONC	-32+80HPY	7729	30	210	P	G11-1			41.63	.11	20.81		4.70		7.52	19.88	5.52	.42	0.00			.02	.01	100.60	
HSMRC-CONC	-32+80HPY	7729	30	211	P	G11-1			41.09	.06	18.85		6.69		6.85	19.16	5.95	.41	0.00			.00	.01	99.07	
HSMRC-CONC	-32+80HPY	7729	30	213	P	G11-1			41.52	.14	19.23		6.46		6.92	19.89	5.55	.47	.03			.04	.01	100.25	
HSMRC-CONC	-32+80HPY	7729	30	217	P	G11-1			41.53	.22	20.06		5.26		7.53	19.85	5.46	.38	.01			.07	.01	100.37	
HSMRC-CONC	-32+80HPY	7729	30	411	P	G11-1			41.66	.16	20.89		4.64		6.74	20.61	5.18	.39	0.00			.03	.01	100.31	
HSMRC-CONC	-32+80HPY	7729	30	504	P	G11-1			41.78	.17	21.07		4.72		6.79	20.44	5.14	.38	.00			.03	.00	100.53	
HSMRC-CONC	-32+80HPY	7729	30	507	P	G11-1			41.81	.17	20.82		4.63		6.81	20.68	5.17	.40	0.00			.03	.01	100.53	
HSMRC-CONC	-32+80HPY	7729	30	901	P	G11-1			41.82	.15	20.77		4.72		6.79	20.44	5.24	.38	0.00			.02	0.00	100.34	
HSMRC-CONC	-32+80HPY	7729	30	902	P	G11-1			41.40	.37	19.94		5.14		6.76	20.20	5.44	.36	0.00			.04	.01	99.67	
HSMRC-CONC	-32+80HPY	7729	30	908	P	G11-1			41.23	.26	19.80		4.83		7.48	19.71	5.55	.39	.01			.04	0.00	99.30	
HSMRC-CONC	-32+80HPY	7729	30	914	P	G11-1			40.92	.06	18.67		6.72		6.74	19.11	6.09	.39	0.00			.02	0.00	98.71	
HSMRC-CONC	-32+80HPY	7729	31	105	P	G11-1			41.18	.61	19.36		5.07		7.04	19.57	5.62	.37	.02			.06	.00	98.89	
HSMRC-CONC	-32+80HPY	7729	31	107	P	G11-1			41.46	.12	20.35		4.74		7.59	19.33	5.51	.41	.02			.01	0.00	99.55	
HSMRC-CONC	-32+80HPY	7729	31	109	P	G11-1			41.22	.26	19.73		5.03		7.38	19.52	5.49	.40	.02			.03	.00	99.09	
HSMRC-CONC	-32+80HPY	7729	31	110	P	G11-1			41.40	.25	20.04		4.95		7.48	19.54	5.43	.37	.01			.04	.01	99.52	
HSMRC-CONC	-32+80HPY	7729	40	601	P	G11-1			41.24	.12	20.19		4.93		7.64	19.18	5.62	.42	.04			.03	0.00	99.41	
HSMRC-CONC	-32+80HPY	7729	40	603	P	G11-1			41.53	.26	19.78		5.13		7.31	19.10	5.43	.40	.03			.03	.00	99.00	
HSMRC-CONC	-32+80HPY	7729	40	605	P	G11-1			41.26	.26	19.78		5.38		7.31	19.45	5.48	.41	0.00			.05	.01	99.40	
HSMRC-CONC	-32+80HPY	7729	30	905	P	G11-1		DIO	40.68	.45	17.88		7.15		7.47	18.93	5.98	.41	.01			.04	.01	99.02	



ISO 9001:2015
ISO 17025:2005



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Diamond Indicator **ANALYSES** and **CLASSIFICATIONS** for 1 RJK Explorations sample

Source : EPMA
Status : BASE: BD37
Project : RJD1

Sample:
GPRC-CONC

File Name : PRB9748F
Analyses: 582
Date : 6 October 2021

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.

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																
					SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %
GPRC-CONC	-32+80HIL	7730	11	110		IL				43.14	.14		1.01	21.24	27.93	6.05	.01	.25		.06	.22				100.05	
GPRC-CONC	-32+80HIL	7730	20	210		IL				43.42	.14		.93	21.05	28.16	6.02	.01	.26		.01	.11				100.11	
GPRC-CONC	-32+80HIL	7700	11	505		IL-Mn				48.65	.01		.02	8.09	40.92	.05	.02	2.69		0.00	0.00				100.45	
GPRC-CONC	-32+80HPY	7700	10	702		OLV-FORS				41.70	0.00	0.00	.04		6.23	52.56	.02	.07	.39			.02	.00	101.03 #		
GPRC-CONC	-32+80HPY	7700	10	903		OLV-FORS				41.47	0.00	.01	0.00		6.96	51.42	.01	.09	.31		0.00		0.00	100.25		
GPRC-CONC	-32+80HPY	7700	10	908		OLV-FORS				41.63	0.00	.01	0.00		6.08	52.15	.00	.10	.36		.01		.01	100.36		
GPRC-CONC	-32+80HPY	7700	11	205		OLV-FORS				40.96	.03	0.00	0.00		7.58	51.76	.03	.10	.33		.01		.00	100.80		
GPRC-CONC	-32+80HPY	7722	20	303		OLV-FORS				41.53	.01	.01	.02		6.14	52.49	.02	.09	.37		.00		0.00	100.67		
GPRC-CONC	-32+80HPY	7722	20	304		OLV-FORS				41.46	.00	0.00	0.00		6.77	51.45	.02	.10	.32		.02		.01	100.16		
GPRC-CONC	-32+80HPY	7722	20	604		OLV-FORS				41.46	.01	0.00	0.00		6.66	51.23	.01	.08	.32		0.00		0.00	99.78		
GPRC-CONC	-32+80HPY	7722	20	908		OLV-FORS				41.64	.02	.01	.03		6.24	52.57	.01	.08	.37		.01		.01	100.98		
GPRC-CONC	-32+80HPY	7729	10	704		OLV-FORS				41.34	0.00	.00	0.00		6.37	52.16	.01	.10	.35		.02		.00	100.35		
GPRC-CONC	-32+80HPY	7729	11	101		OLV-FORS				40.66	.03	.00	.04		9.63	49.52	.04	.13	.37		0.00		.00	100.43		
GPRC-CONC	-32+80HPY	7729	11	103		OLV-FORS				41.52	0.00	0.00	0.00		6.34	52.18	.01	.09	.39		.02		.00	100.57		
GPRC-CONC	-32+80HPY	7729	11	105		OLV-FORS				41.15	0.00	.03	.12		8.29	50.59	.09	.13	.36		.02		.01	100.78		
GPRC-CONC	-32+80HIL	7730	20	403		OLV-FORS				41.65	.01	.04	.08		8.22	50.09	.09	.12	.39		.02		0.00	100.70		
GPRC-CONC	-32+80HIL	7700	11	305		PIL				51.46	1.00		.83	10.32	24.45	12.12	.03	.23		.04	.06			100.53		
GPRC-CONC	-32+80HIL	7700	11	311		PIL				51.77	.30		.79	9.18	26.90	10.89	.03	.28		0.00	.07			100.20		
GPRC-CONC	-32+80HIL	7700	11	313		PIL				53.84	.48		.88	6.97	25.20	12.86	.01	.27		.02	0.00			100.51		
GPRC-CONC	-32+80HIL	7700	11	314		PIL				50.91	.20		2.37	9.63	25.65	11.18	.02	.30		0.00	.11			100.37		
GPRC-CONC	-32+80HIL	7700	11	315		PIL				50.86	.30		1.24	10.79	25.87	11.01	.01	.26		0.00	.03			100.35		
GPRC-CONC	-32+80HIL	7700	11	318		PIL				50.85	.21		.44	10.65	27.68	9.94	.03	.28		.03	.01			100.11		
GPRC-CONC	-32+80HIL	7700	11	401		PIL				50.75	.31		4.06	9.02	23.91	12.13	.01	.27		.04	.21			100.72		
GPRC-CONC	-32+80HIL	7700	11	408		PIL				53.24	.61		1.74	7.20	24.22	13.16	.01	.26		0.00	.07			100.52		
GPRC-CONC	-32+80HIL	7700	11	409		PIL				50.55	.24		.87	11.49	26.20	10.75	.02	.26		.03	.19			100.59		
GPRC-CONC	-32+80HIL	7700	11	416		PIL				50.91	.20		.50	10.64	27.41	10.23	.00	.29		0.00	.13			100.30		
GPRC-CONC	-32+80HIL	7700	11	417		PIL				52.16	.52		1.41	8.85	24.04	12.65	.02	.24		.07	0.00			99.97		
GPRC-CONC	-32+80HIL	7700	11	502		PIL				50.40	.19		2.38	10.61	25.13	11.23	.02	.29		.00	.13			100.38		
GPRC-CONC	-32+80HIL	7700	11	503		PIL				53.27	.37		.82	8.26	24.04	13.26	.01	.30		.05	.12			100.50		
GPRC-CONC	-32+80HIL	7700	11	506		PIL				50.10	.20		.59	12.09	26.85	10.08	.01	.30		.07	.13			100.41		
GPRC-CONC	-32+80HIL	7700	11	507		PIL				49.01	.19		.76	13.28	27.81	9.06	.02	.31		0.00	.19			100.63		
GPRC-CONC	-32+80HIL	7700	11	508		PIL				50.66	.13		.78	10.60	27.41	10.15	.02	.32		0.00	.27			100.33		
GPRC-CONC	-32+80HIL	7700	11	509		PIL				51.14	.22		1.15	10.28	26.32	10.91	.01	.34		.10	.20			100.67		
GPRC-CONC	-32+80HIL	7700	11	511		PIL				50.16	.27		3.86	10.00	23.87	11.78	.01	.29		0.00	.07			100.32		
GPRC-CONC	-32+80HIL	7700	11	512		PIL				51.41	.25		.97	10.13	25.61	11.42	.02	.29		.05	.08			100.22		
GPRC-CONC	-32+80HIL	7700	11	513		PIL				50.67	.24		.88	10.94	26.00	10.86	.00	.29		0.00	.08			99.96		
GPRC-CONC	-32+80HIL	7700	11	514		PIL				51.23	.22		.50	10.29	27.88	10.10	.01	.28		.04	.11			100.65		
GPRC-CONC	-32+80HIL	7700	20	101		PIL				49.99	.18		.70	11.84	28.75	8.99	.01	.31		.01	.14			100.92		
GPRC-CONC	-32+80HIL	7700	20	102		PIL				51.31	.29		.74	10.62	25.11	11.72	.03	.31		.01	.20			100.33		
GPRC-CONC	-32+80HIL	7700	20	106		PIL				49.74	.20		.81	11.65	27.98	9.33	.00	.30		.00	.17			100.19		

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Nb2O5	Na2O	Trace		
					SA	CFM	DI	M	T (Zn)															Na2O	K2O	Total
									wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	
GPRC-CONC	-32+80HIL	7700	20	108		PIL				44.05	.14		1.03	20.21	28.56	6.07	.01	.23		.09	.08					100.47
GPRC-CONC	-32+80HIL	7730	10	102		PIL				51.64	.22		1.39	9.30	26.70	10.95	.01	.32		.02	.11					100.66
GPRC-CONC	-32+80HIL	7730	10	103		PIL				51.87	.38		.66	9.60	26.17	11.37	.02	.26		0.00	.08					100.41
GPRC-CONC	-32+80HIL	7730	10	115		PIL				49.81	.45		.44	12.24	27.84	9.42	.02	.29		0.00	.14					100.64
GPRC-CONC	-32+80HIL	7730	10	201		PIL				51.48	.48		.06	10.45	26.55	11.08	.02	.25		.01	.26					100.65
GPRC-CONC	-32+80HIL	7730	10	203		PIL				51.14	.23		.44	10.69	27.74	10.07	.01	.34		.06	.09					100.80
GPRC-CONC	-32+80HIL	7730	10	207		PIL				51.22	.21		.47	10.06	27.77	10.16	.02	.30		.03	.14					100.36
GPRC-CONC	-32+80HIL	7730	10	210		PIL				51.33	.21		.81	9.87	27.24	10.57	.02	.29		0.00	.21					100.56
GPRC-CONC	-32+80HIL	7730	10	214		PIL				51.60	.31		.89	9.52	26.93	10.85	.02	.26		0.00	.13					100.50
GPRC-CONC	-32+80HIL	7730	10	301		PIL				49.06	.15		1.34	12.68	27.60	9.13	.01	.36		.06	.16					100.55
GPRC-CONC	-32+80HIL	7730	10	304		PIL				49.98	.15		1.48	11.33	27.05	9.98	.01	.35		0.00	.23					100.55
GPRC-CONC	-32+80HIL	7730	10	306		PIL				45.99	.09		4.57	14.24	26.00	8.67	.02	.32		0.00	.41					100.30
GPRC-CONC	-32+80HIL	7730	10	311		PIL				43.06	.18		4.95	17.83	26.34	6.96	.01	.32		0.00	.33					99.97
GPRC-CONC	-32+80HIL	7730	10	312		PIL				51.25	.34		2.05	8.90	25.86	11.24	.01	.29		0.00	.10					100.05
GPRC-CONC	-32+80HIL	7730	10	313		PIL				50.25	.22		2.76	10.10	25.50	10.88	.02	.32		0.00	.05					100.10
GPRC-CONC	-32+80HIL	7730	10	315		PIL				51.29	.21		.46	9.99	28.09	10.09	0.00	.30		0.00	.22					100.65
GPRC-CONC	-32+80HIL	7730	10	409		PIL				51.38	.51		.45	9.89	26.14	11.13	.03	.22		.05	.05					99.85
GPRC-CONC	-32+80HIL	7730	10	413		PIL				53.35	.30		1.00	7.36	25.40	12.52	.01	.31		.02	.06					100.33
GPRC-CONC	-32+80HIL	7730	10	414		PIL				50.40	.20		2.73	9.73	26.29	10.56	.02	.33		0.00	.13					100.38
GPRC-CONC	-32+80HIL	7730	10	416		PIL				51.34	.20		.48	9.81	28.13	9.96	.01	.30		.04	.05					100.33
GPRC-CONC	-32+80HIL	7730	10	417		PIL				51.57	.29		1.17	9.75	26.01	11.35	.02	.30		.01	.17					100.64
GPRC-CONC	-32+80HIL	7730	10	501		PIL				51.95	.23		2.78	8.36	24.39	12.44	0.00	.29		.06	.17					100.67
GPRC-CONC	-32+80HIL	7730	10	502		PIL				51.16	.21		.48	10.20	27.87	10.06	.01	.28		0.00	.08					100.35
GPRC-CONC	-32+80HIL	7730	10	503		PIL				50.94	.30		3.31	8.59	25.12	11.57	.01	.25		0.00	.19					100.30
GPRC-CONC	-32+80HIL	7730	10	504		PIL				50.36	.19		.69	11.61	28.11	9.47	.01	.31		.09	.10					100.95
GPRC-CONC	-32+80HIL	7730	10	505		PIL				49.61	.20		.83	12.39	27.91	9.27	.03	.30		.06	.19					100.78
GPRC-CONC	-32+80HIL	7730	10	506		PIL				50.48	.25		1.81	10.30	26.75	10.36	.00	.28		.05	.14					100.44
GPRC-CONC	-32+80HIL	7730	10	507		PIL				51.14	.22		.50	10.34	27.67	10.18	.01	.33		0.00	.15					100.54
GPRC-CONC	-32+80HIL	7730	10	508		PIL				52.88	.47		.83	7.91	25.82	12.11	.02	.27		0.00	.13					100.44
GPRC-CONC	-32+80HIL	7730	10	509		PIL				51.11	.22		.45	10.38	27.95	9.98	.02	.30		0.00	.10					100.53
GPRC-CONC	-32+80HIL	7730	10	511		PIL				50.63	.21		2.70	10.21	25.64	11.00	.01	.31		.07	.09					100.87
GPRC-CONC	-32+80HIL	7730	10	513		PIL				52.65	.55		1.21	8.07	25.06	12.36	.02	.25		.01	.03					100.20
GPRC-CONC	-32+80HIL	7730	10	515		PIL				52.86	.52		1.17	8.02	24.79	12.62	.01	.25		.01	.00					100.24
GPRC-CONC	-32+80HIL	7730	10	601		PIL				51.25	.20		1.00	9.76	26.99	10.58	.01	.35		0.00	.11					100.24
GPRC-CONC	-32+80HIL	7730	10	604		PIL				51.83	.87		.37	8.32	28.11	10.17	.01	.39		.03	.06					100.16
GPRC-CONC	-32+80HIL	7730	10	605		PIL				48.68	.17		.86	13.15	28.40	8.59	.00	.32		0.00	.23					100.40
GPRC-CONC	-32+80HIL	7730	10	606		PIL				46.69	.13		1.19	15.73	28.23	7.66	.01	.32		0.00	.21					100.17
GPRC-CONC	-32+80HIL	7730	10	607		PIL				50.98	.21		.44	10.42	27.75	10.05	.02	.28		.05	.15					100.35
GPRC-CONC	-32+80HIL	7730	10	608		PIL				47.93	.62		.63	16.01	25.35	9.78	.03	.33		0.00	.05					100.74
GPRC-CONC	-32+80HIL	7730	10	609		PIL				52.76	.35		.73	8.33	25.83	11.92	.01	.30		.06	.01					100.32

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2	TiO2	Al2O3	V2O3	Cr2O3	Fe2O3	FeO	MgO	CaO	MnO	NiO	ZnO	Trace			K2O	Total
					SA	CFM	DI	M	C													T (Zn)	wt %	wt %		
GPRC-CONC	-32+80HIL	7730	11	109		PIL				52.01	.34			.72	9.13	26.21	11.41	.00	.32	.00	.09					100.24
GPRC-CONC	-32+80HIL	7730	11	111		PIL				47.57	.37			.54	15.36	27.88	8.32	.02	.23	0.00	.18					100.47
GPRC-CONC	-32+80HIL	7730	11	113		PIL				53.52	.46			.97	7.27	25.01	12.86	.01	.27	0.00	.07					100.44
GPRC-CONC	-32+80HIL	7730	11	115		PIL				52.94	.32			1.01	8.06	25.12	12.42	.01	.30	.07	.03					100.29
GPRC-CONC	-32+80HIL	7730	11	202		PIL				51.23	.20			.47	10.80	27.07	10.55	.01	.30	.03	.14					100.80
GPRC-CONC	-32+80HIL	7730	11	203		PIL				50.18	.23			2.53	10.33	25.93	10.69	.01	.34	0.00	.20					100.45
GPRC-CONC	-32+80HIL	7730	11	204		PIL				50.90	.21			.43	10.80	27.43	10.18	.01	.30	0.00	.10					100.36
GPRC-CONC	-32+80HIL	7730	11	205		PIL				52.76	.37			.89	8.84	25.32	12.31	.01	.27	0.00	.09					100.86
GPRC-CONC	-32+80HIL	7730	11	206		PIL				51.60	.27			3.21	8.03	24.38	12.27	.02	.30	0.00	.16					100.25
GPRC-CONC	-32+80HIL	7730	11	207		PIL				50.02	.21			.44	11.91	28.20	9.27	.02	.31	.09	.14					100.61
GPRC-CONC	-32+80HIL	7730	11	208		PIL				51.07	.22			.47	10.79	27.65	10.16	.01	.31	0.00	.14					100.82
GPRC-CONC	-32+80HIL	7730	11	209		PIL				51.06	.22			.47	10.77	27.58	10.15	.01	.33	.04	.12					100.75
GPRC-CONC	-32+80HIL	7730	11	210		PIL				50.87	.23			.46	10.60	27.65	10.09	.01	.30	.02	.21					100.43
GPRC-CONC	-32+80HIL	7730	11	211		PIL				50.01	.26			4.53	9.53	24.21	11.56	0.00	.29	.01	.12					100.52
GPRC-CONC	-32+80HIL	7730	11	212		PIL				49.05	.18			.96	12.68	27.72	9.07	.02	.30	.03	.12					100.13
GPRC-CONC	-32+80HIL	7730	11	302		PIL				52.60	.53			1.18	8.13	25.27	12.16	.02	.30	.04	0.00					100.22
GPRC-CONC	-32+80HIL	7730	11	303		PIL				53.38	.54			.92	7.79	24.43	13.07	.02	.27	.02	.03					100.48
GPRC-CONC	-32+80HIL	7730	11	305		PIL				51.99	.72			.41	9.67	25.84	11.54	.03	.26	.07	.00					100.53
GPRC-CONC	-32+80HIL	7730	11	307		PIL				43.77	.14			.88	20.18	28.31	6.12	0.00	.27	0.00	.11					99.77
GPRC-CONC	-32+80HIL	7730	11	311		PIL				49.28	.18			.86	12.28	27.81	9.17	.01	.30	.02	.15					100.06
GPRC-CONC	-32+80HIL	7730	11	316		PIL				51.70	.53			.59	9.70	26.00	11.42	.02	.22	0.00	.11					100.29
GPRC-CONC	-32+80HIL	7730	11	402		PIL				52.37	.44			.76	8.55	25.96	11.71	.01	.28	0.00	.03					100.10
GPRC-CONC	-32+80HIL	7730	11	404		PIL				50.21	.23			.74	11.18	25.99	10.70	.02	.29	.07	.26					99.70
GPRC-CONC	-32+80HIL	7730	11	405		PIL				48.87	.19			.78	12.73	27.65	9.05	.02	.31	.00	.16					99.76
GPRC-CONC	-32+80HIL	7730	11	408		PIL				50.16	.21			.37	10.82	27.99	9.50	.01	.31	.05	.17					99.59
GPRC-CONC	-32+80HIL	7730	11	412		PIL				48.16	.12			1.50	13.32	27.39	8.84	.02	.36	.08	.27					100.06
GPRC-CONC	-32+80HIL	7730	11	413		PIL				50.63	.20			.74	10.85	27.64	9.96	.01	.28	.04	.19					100.56
GPRC-CONC	-32+80HIL	7730	11	415		PIL				53.30	.46			.90	7.19	25.12	12.70	.01	.26	0.00	.09					100.02
GPRC-CONC	-32+80HIL	7730	11	502		PIL				45.69	.12			1.05	17.28	28.21	7.19	.02	.31	0.00	.25					100.12
GPRC-CONC	-32+80HIL	7730	11	504		PIL				50.44	.21			.41	10.39	27.61	9.82	.02	.31	.04	.11					99.36
GPRC-CONC	-32+80HIL	7730	11	505		PIL				50.90	.25			.94	10.14	26.81	10.51	.02	.31	.03	.12					100.03
GPRC-CONC	-32+80HIL	7730	11	507		PIL				51.67	.22			.89	9.54	27.05	10.82	.01	.31	0.00	.18					100.68
GPRC-CONC	-32+80HIL	7730	11	508		PIL				51.64	.39			.62	9.35	27.11	10.77	.02	.27	0.00	.15					100.32
GPRC-CONC	-32+80HIL	7730	11	509		PIL				51.17	.21			.50	10.32	27.98	10.03	0.00	.32	.01	.14					100.68
GPRC-CONC	-32+80HIL	7730	11	515		PIL				50.48	.20			2.57	10.26	26.13	10.74	.00	.33	0.00	.19					100.91
GPRC-CONC	-32+80HIL	7730	11	517		PIL				50.65	.20			.47	10.79	27.56	9.93	.01	.33	0.00	.05					99.99
GPRC-CONC	-32+80HIL	7730	11	518		PIL				50.69	.22			.44	10.65	27.69	9.92	.01	.31	.03	.13					100.08
GPRC-CONC	-32+80HIL	7730	20	101		PIL				50.74	.21			2.31	10.02	25.87	10.99	.01	.29	.04	.16					100.65
GPRC-CONC	-32+80HIL	7730	20	102		PIL				50.64	.22			.72	11.06	27.51	10.07	.02	.32	.05	.28					100.90
GPRC-CONC	-32+80HIL	7730	20	105		PIL				52.51	.34			.89	8.59	26.12	11.77	.02	.29	0.00	.18					100.71

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification				Rock/Temp		Trace																					
				Grain	SA	CFM	DI	M	C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %				
GPRC-CONC	-32+80HIL	7730	20	106		PIL								51.52	.21		.46	10.08	27.95	10.20	.01	.31			.01	.12				100.86	
GPRC-CONC	-32+80HIL	7730	20	107		PIL								51.56	.28		.96	9.47	26.01	11.32	.01	.28			0.00	.10				99.98	
GPRC-CONC	-32+80HIL	7730	20	108		PIL								53.31	.31		.92	7.91	25.18	12.62	.01	.29			.06	.09				100.70	
GPRC-CONC	-32+80HIL	7730	20	110		PIL								51.01	.20		.51	10.54	27.88	9.99	.01	.31			.03	.14				100.61	
GPRC-CONC	-32+80HIL	7730	20	113		PIL								50.04	.23		2.52	10.32	25.79	10.71	.01	.30			.03	.21				100.17	
GPRC-CONC	-32+80HIL	7730	20	202		PIL								50.69	.20		.76	10.75	27.39	10.06	.02	.33			.05	.13				100.38	
GPRC-CONC	-32+80HIL	7730	20	205		PIL								50.02	.28		4.24	9.43	24.41	11.47	.00	.30			.02	.18				100.35	
GPRC-CONC	-32+80HIL	7730	20	206		PIL								50.25	.22		.85	11.32	27.18	10.04	.01	.30			.02	.20				100.39	
GPRC-CONC	-32+80HIL	7730	20	207		PIL								51.37	.21		1.42	9.54	25.64	11.40	.02	.29			.03	.09				100.00	
GPRC-CONC	-32+80HIL	7730	20	209		PIL								48.99	.17		.77	13.32	27.97	8.99	.01	.31			.04	.26				100.82	
GPRC-CONC	-32+80HIL	7730	20	211		PIL								50.68	.21		.43	10.64	27.45	10.06	.01	.31			0.00	.12				99.89	
GPRC-CONC	-32+80HIL	7730	20	212		PIL								49.73	.28		4.37	9.73	23.98	11.52	.01	.29			.04	.13				100.07	
GPRC-CONC	-32+80HIL	7730	20	213		PIL								53.25	.30		.91	7.66	25.47	12.47	.01	.31			.02	.14				100.54	
GPRC-CONC	-32+80HIL	7730	20	301		PIL								50.68	.28		.28	10.28	29.66	8.83	.01	.16			.04	.03				100.26	
GPRC-CONC	-32+80HIL	7730	20	302		PIL								50.76	.22		.47	10.48	27.54	10.01	.02	.30			.01	.07				99.88	
GPRC-CONC	-32+80HIL	7730	20	303		PIL								49.12	.18		.76	12.95	27.64	9.20	.01	.32			.01	.18				100.37	
GPRC-CONC	-32+80HIL	7730	20	304		PIL								42.80	.13		.95	21.39	27.70	5.95	.01	.27			.02	.10				99.32	
GPRC-CONC	-32+80HIL	7730	20	306		PIL								52.44	.33		.89	8.83	25.94	11.78	.01	.29			0.00	.08				100.58	
GPRC-CONC	-32+80HIL	7730	20	309		PIL								50.83	.22		.44	10.94	27.43	10.13	.02	.30			0.00	.09				100.40	
GPRC-CONC	-32+80HIL	7730	20	310		PIL								50.37	.24		2.99	9.78	25.33	11.09	.00	.32			0.00	.11				100.24	
GPRC-CONC	-32+80HIL	7730	20	311		PIL								47.38	.11		.49	15.10	28.72	7.64	.02	.30			.05	.09				99.89	
GPRC-CONC	-32+80HIL	7730	20	313		PIL								50.84	.20		.66	10.30	27.62	10.04	.04	.32			0.00	.15				100.18	
GPRC-CONC	-32+80HIL	7730	20	315		PIL								50.17	.70		.40	10.92	29.17	8.84	.02	.17			.02	.02				100.44	
GPRC-CONC	-32+80HIL	7730	20	401		PIL								52.16	.33		.90	8.81	25.93	11.66	0.00	.30			.04	.14				100.28	
GPRC-CONC	-32+80HPY	7722	20	212		CR	-	L	L	763				.04	.25	16.34	.15	49.34	5.57	16.47	11.73	0.00	.34	.12	.15					100.51	
GPRC-CONC	-32+80HPY	7722	20	213		CR	-	L	L	760				.02	.03	13.23	.38	55.27	2.95	15.94	11.55	.01	.30	.08	.15						99.89
GPRC-CONC	-32+80HPY	7722	20	301		CR	-	L	L	849				.00	.05	13.50	.25	54.89	3.89	14.38	12.64	.00	.33	.08	.11						100.12
GPRC-CONC	-32+80HIL	7730	10	104		CR	-	G	G	766				.13	.27	13.28	.10	51.99	5.09	18.90	9.43	.00	1.02	.21	.15						100.57
GPRC-CONC	-32+80HIL	7730	10	111		CR	-	U	L	843				.01	.73	13.30	.18	49.56	7.73	16.65	11.45	.00	.39	.13	.11						100.25
GPRC-CONC	-32+80HIL	7730	10	215		CR	-	K	K	1027+				.08	.42	9.62	.10	56.94	6.23	12.14	13.91	.00	.29	.20	.07						100.02
GPRC-CONC	-32+80HIL	7730	10	602		CR	-	K	L	944				.02	.24	16.14	.20	49.38	5.83	16.16	11.89	.01	.38	.11	.09						100.44
GPRC-CONC	-32+80HIL	7730	10	603		CR	-	K	L	727				.02	.36	10.24	.33	57.99	3.67	15.18	12.00	.00	.36	.07	.17						100.40
GPRC-CONC	-32+80HIL	7730	11	201		CR	-	L	L	797				0.00	.74	13.35	.24	49.30	7.77	16.63	11.44	.01	.38	.13	.13						100.12
GPRC-CONC	-32+80HIL	7730	11	417		CR	-	K	K	818				.02	.16	8.60	.21	57.33	6.43	14.94	11.77	0.00	.36	.09	.12						100.03
GPRC-CONC	-32+80HIL	7730	11	501		CR	-	K	K	888				.03	1.07	7.44	.22	51.58	10.29	20.11	8.77	.00	.38	.15	.10						100.13
GPRC-CONC	-32+80HIL	7730	11	514		CR	-	L	L	766				.04	.11	13.47	.20	55.96	2.87	13.72	13.09	0.00	.37	.08	.15						100.05
GPRC-CONC	-32+80HIL	7730	20	104		CR	-	L	K	1212+				.06	.07	7.14	.29	62.08	4.29	11.83	13.69	.00	.32	.11	.05						99.94
GPRC-CONC	-32+80HIL	7730	20	109		CR	-	G	K	797				.11	.38	9.17	.11	55.72	6.14	17.71	10.23	.00	.36	.15	.13						100.23
GPRC-CONC	-32+80HIL	7730	20	111		CR	-	G	G	753				.11	.26	5.73	.09	55.77	6.58	26.40	3.64	.01	1.03	.08	.15						99.86
GPRC-CONC	-32+80HIL	7730	20	215		CR	-	L	L	1332				.13	.30	13.84	.13	53.78	5.40	9.75	15.87	.01	.25	.20	.04						99.69

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp																Trace			
					SA	CFM	DI	M	C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %
GPRC-CONC	-32+80HPY	7700	10	902	OLV-FORS	DI				41.66	0.00	.01		.02	6.98	51.46	0.00	.13	.31						0.00	.00	100.58
GPRC-CONC	-32+80HPY	7722	20	306	OLV-FORS	DI				41.38	0.00	0.00		.00	6.35	53.09	.00	.08	.37						.01	0.00	101.28 #
GPRC-CONC	-32+80HPY	7722	20	403	OLV-FORS	DI				41.44	0.00	.00		.01	6.34	52.86	.01	.11	.42						0.00	0.00	101.20 #
GPRC-CONC	-32+80HPY	7722	20	408	OLV-FORS	DI				41.42	0.00	.01		.04	6.97	52.11	.05	.12	.34						0.00	.00	101.07 #
GPRC-CONC	-32+80HPY	7722	20	504	OLV-FORS	DI				41.38	.02	0.00		.01	6.96	51.62	.01	.12	.34						0.00	.00	100.47
GPRC-CONC	-32+80HPY	7722	20	508	OLV-FORS	DI				41.55	.01	0.00		0.00	5.86	52.37	0.00	.08	.33						0.00	0.00	100.19
GPRC-CONC	-32+80HPY	7729	10	701	OLV-FORS	DI				41.65	0.00	.00		.01	6.53	52.31	0.00	.10	.35						.00	.01	100.97
GPRC-CONC	-32+80HPY	7700	10	703	OLV-FORS	DI*				41.47	0.00	.00		.01	6.32	52.40	.01	.08	.36						0.00	0.00	100.65
GPRC-CONC	-32+80HPY	7700	10	704	OLV-FORS	DI*				41.17	0.00	.01		.04	7.22	51.06	.03	.10	.38						.01	0.00	100.02
GPRC-CONC	-32+80HPY	7700	10	909	OLV-FORS	DI*				41.64	.00	.00		0.00	6.08	52.04	.01	.07	.35						.00	.00	100.20
GPRC-CONC	-32+80HPY	7700	11	204	OLV-FORS	DI*				41.29	0.00	.00		.02	6.69	51.44	.04	.09	.35						.02	0.00	99.94
GPRC-CONC	-32+80HPY	7700	11	206	OLV-FORS	DI*				41.44	.00	.01		.03	6.84	52.35	.04	.10	.32						.01	.00	101.15 #
GPRC-CONC	-32+80HPY	7722	20	305	OLV-FORS	DI*				41.32	.01	0.00		.03	7.29	51.70	.00	.13	.30						.00	.00	100.79
GPRC-CONC	-32+80HPY	7722	20	406	OLV-FORS	DI*				41.63	.00	.00		.01	6.09	52.40	.01	.10	.39						0.00	.00	100.63
GPRC-CONC	-32+80HPY	7722	20	606	OLV-FORS	DI*				41.51	0.00	.00		0.00	6.41	51.93	.01	.08	.30						0.00	0.00	100.25
GPRC-CONC	-32+80HPY	7722	20	607	OLV-FORS	DI*				41.31	.00	0.00		.00	6.27	51.49	.01	.12	.32						0.00	.01	99.54
GPRC-CONC	-32+80HPY	7722	20	611	OLV-FORS	DI*				41.82	.00	0.00		.01	5.98	52.71	.01	.09	.38						0.00	.00	101.01 #
GPRC-CONC	-32+80HPY	7722	20	804	OLV-FORS	DI*				41.63	0.00	.01		.02	5.73	52.93	.00	.10	.35						0.00	0.00	100.77
GPRC-CONC	-32+80HPY	7722	20	805	OLV-FORS	DI*				41.65	.01	.00		.01	5.98	53.31	.02	.10	.30						0.00	.00	101.38 #
GPRC-CONC	-32+80HPY	7722	20	807	OLV-FORS	DI*				41.56	.01	.01		.01	5.83	51.71	.01	.07	.36						0.00	0.00	99.57
GPRC-CONC	-32+80HPY	7722	20	907	OLV-FORS	DI*				41.40	0.00	.01		.04	5.87	52.30	.02	.07	.34						.01	.00	100.08
GPRC-CONC	-32+80HPY	7729	10	702	OLV-FORS	DI*				41.35	.00	0.00		.01	6.52	52.00	.01	.09	.35						0.00	.01	100.34
GPRC-CONC	-32+80HPY	7729	10	703	OLV-FORS	DI*				41.46	0.00	.01		0.00	6.44	52.29	.01	.11	.35						0.00	.01	100.67
GPRC-CONC	-32+80HPY	7729	11	102	OLV-FORS	DI*				41.33	.01	0.00		.01	7.04	51.75	.02	.12	.35						.00	0.00	100.64
GPRC-CONC	-32+80HPY	7729	11	104	OLV-FORS	DI*				41.27	.01	.00		.03	8.14	50.82	.03	.10	.37						.02	.01	100.80
GPRC-CONC	-32+80HIL	7700	11	405	CR	TI		K K	1029+	.07	3.82	6.33	.48	47.08	11.88	19.94	10.58	.00	.34	.12	.07						100.73
GPRC-CONC	-32+80HIL	7730	11	411	CR	TI		L K	1105+	.05	3.81	5.41	.49	50.58	9.43	18.87	11.06	0.00	.37	.17	.06						100.30
GPRC-CONC	-32+80HIL	7730	11	516	CR	TI		K K	968+	.05	3.72	6.39	.43	46.64	11.79	20.43	10.00	.00	.36	.16	.08						100.05
GPRC-CONC	-32+80HPY	7722	11	512	CE	CP2	-			53.61	.20	.90		.46	5.77	16.98	20.90	.16	.04					.21	.00	99.23	
GPRC-CONC	-32+80HPY	7729	11	306	CE	CP2	-			53.89	.01	.81		.21	6.82	13.57	23.68	.28	.01					.95	0.00	100.21	
GPRC-CONC	-32+80HPY	7729	10	305	CE	CP6	-			53.70	.21	1.01		.41	3.45	16.53	23.42	.12	.02					.40	0.00	99.27	
GPRC-CONC	-32+80HPY	7722	11	513	CE	CPX	DI/G2			53.95	.01	.60		.21	5.28	14.64	23.91	.19	.00					.79	0.00	99.59	
GPRC-CONC	-32+80HPY	7722	11	410	CP	CP2	-	--		53.62	.28	.82		1.02	5.56	17.52	20.06	.22	.06					.51	.00	99.67	
GPRC-CONC	-32+80HPY	7722	11	412	CP	CP2	-	--		53.55	.23	1.12		.81	5.36	17.09	21.09	.13	.01					.28	0.00	99.67	
GPRC-CONC	-32+80HPY	7722	20	101	CP	CP2	-	--		53.84	.28	.68		.95	5.51	18.12	19.60	.16	.08					.50	0.00	99.73	
GPRC-CONC	-32+80HPY	7729	11	109	CP	CP2	-	--		53.69	.28	.82		1.16	5.36	17.72	19.37	.14	.08					.47	.00	99.10	
GPRC-CONC	-32+80HPY	7729	11	403	CP	CP2	-	--		53.69	.29	.95		1.06	5.33	17.03	20.72	.15	.05					.52	0.00	99.79	
GPRC-CONC	-32+80HPY	7729	11	407	CP	CP2	-	--		53.64	.34	1.13		1.01	5.20	16.75	21.17	.10	.06					.48	.01	99.90	
GPRC-CONC	-32+80HPY	7729	11	412	CP	CP2	-	--		53.52	.34	.89		.98	5.72	17.11	20.33	.13	.07					.53	0.00	99.61	
GPRC-CONC	-32+80HPY	7729	10	303	CP	CP5	-	--		53.12	.17	1.29		.69	2.93	16.72	23.79	.10	.01					.23	.00	99.05	

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
GPRC-CONC	-32+80HPY	7729	10	304	CP	CP6	-	--	53.58	.20	1.10		.58	3.53	16.55	23.48	.07	.02				.25	.00	99.37	
GPRC-CONC	-32+80HPY	7722	11	402	CP	CPX	-	--	53.37	.32	1.09		1.13	5.45	16.21	21.15	.13	.07				.56	0.00	99.48	
GPRC-CONC	-32+80HPY	7722	11	407	CP	CPX	-	--	53.36	.31	.99		1.00	5.55	16.35	20.96	.14	.07				.52	0.00	99.26	
GPRC-CONC	-32+80HPY	7722	11	413	CP	CPX	-	--	53.30	.36	1.27		1.02	5.20	16.19	21.40	.12	.06				.51	.00	99.45	
GPRC-CONC	-32+80HPY	7722	20	203	CP	CPX	-	--	53.31	.39	1.19		1.18	5.32	16.95	21.10	.14	.08				.51	.00	100.16	
GPRC-CONC	-32+80HPY	7729	10	310	CP	CPX	-	--	53.22	.17	.91		.50	5.57	17.10	20.94	.15	.04				.21	.00	98.81	
GPRC-CONC	-32+80HPY	7729	11	406	CP	CPX	-	--	53.16	.34	.93		1.20	5.58	17.29	19.83	.15	.07				.50	0.00	99.06	
GPRC-CONC	-32+80HPY	7729	20	312	CP	CPX	-	--	53.43	.20	.97		.76	5.14	17.24	20.90	.12	.05				.27	.00	99.08	
GPRC-CONC	-32+80HPY	7729	20	513	CP	CPX	-	--	53.48	.38	1.23		1.10	5.15	16.62	21.01	.11	.07				.53	.00	99.67	
GPRC-CONC	-32+80HPY	7722	20	105	CP	CP2	-	Diam	53.90	.27	.80		1.08	5.92	18.61	18.69	.17	.06				.52	.00	100.00	
GPRC-CONC	-32+80HPY	7722	11	314	CP	CP5	-	Diam	55.23	.09	2.47		1.11	2.46	16.52	20.17	.09	.06				2.12	.01	100.32	
GPRC-CONC	-32+80HPY	7729	10	301	CP	CP6	-	Diam	54.51	.19	1.72		.59	3.61	18.18	19.20	.09	.04				1.07	.03	99.22	
GPRC-CONC	-32+80HPY	7729	20	517	CP	CP2	-	Diam-	53.84	.33	.94		1.24	5.46	17.71	19.79	.14	.08				.53	.00	100.05	
GPRC-CONC	-32+80HPY	7722	20	109	CP	CP6	-	Gr	54.76	.06	3.28		.92	3.65	14.62	20.11	.09	.00				2.47	.00	99.96	
GPRC-CONC	-32+80HPY	7700	10	614	CP	CPX	-	Gr	51.72	.28	3.45		1.19	6.11	17.15	18.87	.16	.04				.31	0.00	99.29	
GPRC-CONC	-32+80HPY	7722	11	505	CP	CPX	-	Gr	53.27	.34	1.40		1.06	5.78	17.30	19.52	.16	.10				.48	.00	99.40	
GPRC-CONC	-32+80HPY	7722	11	506	CP	CPX	-	Gr	51.83	.31	3.10		1.01	6.00	17.27	19.59	.17	.07				.33	.01	99.68	
GPRC-CONC	-32+80HPY	7722	20	207	CP	CPX	-	Gr	51.59	.31	3.55		1.29	5.74	16.48	19.71	.17	0.00				.32	0.00	99.16	
GPRC-CONC	-32+80HPY	7729	11	206	CP	CPX	-	Gr	52.41	.23	2.88		1.09	5.41	17.18	19.73	.14	.04				.29	.00	99.42	
GPRC-CONC	-32+80HPY	7729	11	213	CP	CPX	-	Gr	51.76	.28	3.75		1.37	5.64	16.95	19.53	.15	.01				.30	.01	99.75	
GPRC-CONC	-32+80HPY	7729	11	309	CP	CPX	-	Gr	51.89	.28	3.45		1.06	5.48	16.79	19.70	.14	.06				.32	0.00	99.18	
GPRC-CONC	-32+80HPY	7729	20	309	CP	CPX	-	Gr	53.44	.29	1.39		1.18	5.54	17.73	19.10	.13	.11				.48	0.00	99.40	
GPRC-CONC	-32+80HPY	7729	20	511	CP	CPX	-	Gr	52.41	.10	3.07		1.25	3.96	17.53	21.02	.11	.00				.17	.00	99.63	
GPRC-CONC	-32+80HPY	7700	10	512	CP	CP5	G2	Gr	54.87	.23	2.80		1.91	1.49	15.35	20.45	.07	0.00				2.33	.00	99.50	
GPRC-CONC	-32+80HPY	7722	11	405	CP	CP5	G2/DI	Gr	54.67	.22	2.76		1.76	1.63	15.19	20.41	.05	.02				2.30	0.00	99.02	
GPRC-CONC	-32+80HPY	7722	11	210	E	G 9	-		41.21	.57	22.28		1.36	10.54	18.64	4.95	.40	0.00				.050	.01	99.99	
GPRC-CONC	-32+80HPY	7729	10	101	E	G 3	HPM		41.19	.50	22.54		.33	13.16	17.46	4.60	.48	.03				.066	.00	100.37	
GPRC-CONC	-32+80HPY	7700	10	312	E	G 9	HPM		41.94	.83	22.19		.76	10.64	18.92	4.55	.36	.00				.104	0.00	100.29	
GPRC-CONC	-32+80HPY	7700	10	403	E	G 9	HPM		41.95	.51	23.00		.50	10.83	18.88	4.36	.35	.02				.070	.01	100.47	
GPRC-CONC	-32+80HPY	7722	10	708	E	G 9	HPM		41.48	.80	21.97		1.17	10.28	17.86	6.08	.41	0.00				.052	0.00	100.11	
GPRC-CONC	-32+80HPY	7722	11	112	E	G 9	HPM		40.90	.80	21.76		1.21	10.32	18.49	6.06	.41	.00				.057	.00	100.01	
GPRC-CONC	-32+80HPY	7722	11	204	E	G 9	HPM		41.62	.58	22.15		1.29	10.49	18.71	4.95	.40	0.00				.055	0.00	100.23	
GPRC-CONC	-32+80HPY	7722	11	208	E	G 9	HPM		41.46	.58	22.09		1.25	10.64	18.36	4.87	.39	.00				.071	0.00	99.69	
GPRC-CONC	-32+80HPY	7722	11	213	E	G 9	HPM		41.01	.77	21.57		1.25	10.36	18.56	5.99	.40	0.00				.060	.00	99.97	
GPRC-CONC	-32+80HPY	7729	10	102	E	G 9	HPM		41.82	.45	23.12		.85	9.09	19.87	4.45	.37	0.00				.077	0.00	100.09	
GPRC-CONC	-32+80HPY	7729	10	103	E	G 9	HPM		41.17	.78	21.83		1.23	10.58	18.19	5.94	.39	0.00				.053	.01	100.17	
GPRC-CONC	-32+80HPY	7729	10	604	E	G 9	HPM		41.47	.57	22.25		1.37	10.73	18.95	4.91	.42	0.00				.061	0.00	100.73	
GPRC-CONC	-32+80HPY	7729	10	605	E	G 9	HPM		41.24	.55	22.30		1.33	10.68	18.85	4.89	.40	.03				.059	0.00	100.33	
GPRC-CONC	-32+80HPY	7729	10	908	E	G 9	HPM		41.62	.56	22.26		1.34	10.73	18.85	4.85	.43	.00				.063	.01	100.70	
GPRC-CONC	-32+80HPY	7729	10	909	E	G 9	HPM		41.57	.78	22.33		.80	10.75	19.22	4.54	.37	0.00				.089	0.00	100.46	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification				Rock/Temp		Trace																		
				Grain	SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %		
GPRC-CONC	-32+80HPY	7729	20	313	E	G	9	HPM			41.23	.78	21.96		1.17		10.45	18.37	5.88	.41	0.00					.053	.00	100.28
GPRC-CONC	-32+80HPY	7729	20	315	E	G	9	HPM			41.80	.02	23.43		1.34		9.80	18.98	5.08	.41	0.00					.032	0.00	100.88
GPRC-CONC	-32+80HPY	7722	10	201	E	G	9	HPM*			41.47	.49	22.04		1.80		9.04	19.53	5.06	.33	.02					.037	0.00	99.80
GPRC-CONC	-32+80HPY	7722	10	607	E	G	9	HPM*			42.13	.46	22.44		1.52		7.90	20.39	4.91	.26	.01					.052	.01	100.06
GPRC-CONC	-32+80HPY	7722	10	710	E	G	9	HPM*			42.08	.46	22.43		1.51		7.83	20.39	4.91	.26	.02					.068	.00	99.93
GPRC-CONC	-32+80HPY	7722	10	816	E	G	9	HPM*			41.95	.46	22.28		1.58		7.94	20.74	4.86	.29	.01					.053	0.00	100.17
GPRC-CONC	-32+80HPY	7722	11	113	E	G	9	HPM*			41.65	.61	22.12		1.25		9.36	19.40	5.00	.34	.03					.058	.02	99.85
GPRC-CONC	-32+80HPY	7722	11	201	E	G	9	HPM*			42.27	.54	22.57		1.35		7.70	20.53	4.57	.34	.01					.072	0.00	99.92
GPRC-CONC	-32+80HPY	7722	11	202	E	G	9	HPM*			41.18	.98	21.56		1.26		10.43	19.42	4.90	.36	.01					.105	0.00	100.20
GPRC-CONC	-32+80HPY	7722	11	206	E	G	9	HPM*			41.45	.58	22.19		1.26		9.84	19.07	5.20	.37	0.00					.051	.00	100.00
GPRC-CONC	-32+80HPY	7722	11	214	E	G	9	HPM*			41.38	.61	22.19		1.31		9.41	19.71	5.03	.35	0.00					.047	.01	100.05
GPRC-CONC	-32+80HPY	7722	11	215	E	G	9	HPM*			41.81	.53	22.49		1.09		9.97	19.17	4.69	.36	.00					.062	0.00	100.14
GPRC-CONC	-32+80HPY	7722	11	301	E	G	9	HPM*			41.96	.48	22.51		1.06		7.89	21.02	4.92	.23	.02					.043	0.00	100.12
GPRC-CONC	-32+80HPY	7722	11	302	E	G	9	HPM*			41.36	.59	22.01		1.35		10.47	18.87	4.84	.40	.02					.073	0.00	99.99
GPRC-CONC	-32+80HPY	7729	20	314	E	G	9	HPM*			41.54	.54	22.62		1.04		9.99	19.35	4.65	.40	0.00					.063	.00	100.19
GPRC-CONC	-32+80HPY	7729	20	403	E	G	9	HPM*			42.12	.45	22.61		1.52		7.99	20.83	4.85	.28	.01					.034	.01	100.70
GPRC-CONC	-32+80HPY	7729	20	404	E	G	9	HPM*			42.29	.41	22.68		1.53		7.86	20.77	4.87	.29	.01					.051	.01	100.77
GPRC-CONC	-32+80HPY	7700	10	311	E	G	9	HPM/G1			41.55	.82	22.07		1.21		10.28	18.07	6.03	.38	.00					.071	0.00	100.48
GPRC-CONC	-32+80HPY	7700	10	313	E	G	9	HPM/G1			41.52	.80	21.90		1.17		10.55	17.95	6.02	.39	0.00					.071	.00	100.39
GPRC-CONC	-32+80HPY	7700	10	402	E	G	9	HPM/G1			41.43	.80	22.01		1.10		10.42	18.15	6.00	.41	0.00					.043	.01	100.38
GPRC-CONC	-32+80HPY	7722	10	211	E	G	9	HPM/G1			40.93	.54	21.60		1.79		9.17	19.66	5.36	.34	.01					.046	.00	99.45
GPRC-CONC	-32+80HPY	7722	11	203	E	G	9	HPM/G1			41.72	.61	22.20		1.20		9.27	19.29	4.97	.33	0.00					.049	.01	99.65
GPRC-CONC	-32+80HPY	7722	11	207	E	G	9	HPM/G1			41.37	.59	22.28		1.36		10.56	18.58	4.93	.42	.02					.055	0.00	100.16
GPRC-CONC	-32+80HPY	7722	11	211	E	G	9	HPM/G1			41.95	.15	23.66		.32		10.33	19.32	4.36	.40	.02					.051	.00	100.55
GPRC-CONC	-32+80HPY	7722	10	705	E	G	9	LPM			41.92	0.00	23.43		1.30		8.52	19.44	4.78	.50	.01					.015	.00	99.91
GPRC-CONC	-32+80HPY	7700	10	105	P	G	9				42.00	.41	20.77		3.85		7.62	19.70	5.83	.30	0.00				.02	.00	100.49	
GPRC-CONC	-32+80HPY	7700	10	210	P	G	9				41.66	.00	22.45		2.25		8.29	19.66	5.35	.54	0.00				.02	0.00	100.22	
GPRC-CONC	-32+80HPY	7700	10	211	P	G	9				41.51	.07	21.21		3.84		8.76	18.22	5.99	.59	0.00				.01	.01	100.20	
GPRC-CONC	-32+80HPY	7700	10	216	P	G	9				41.84	.06	20.74		4.23		7.70	19.82	5.57	.36	.03				.01	0.00	100.36	
GPRC-CONC	-32+80HPY	7700	10	305	P	G	9				41.65	.16	20.54		4.49		7.83	19.33	5.53	.37	.01				.02	0.00	99.94	
GPRC-CONC	-32+80HPY	7722	10	102	P	G	9				41.62	.03	21.13		4.43		7.15	19.38	5.64	.42	0.00				.01	.01	99.82	
GPRC-CONC	-32+80HPY	7722	10	103	P	G	9				41.22	.84	21.21		2.20		7.70	19.56	6.30	.36	.00				.07	0.00	99.47	
GPRC-CONC	-32+80HPY	7722	10	108	P	G	9				41.18	.03	21.48		3.47		8.60	19.03	5.55	.60	.03				.02	0.00	99.98	
GPRC-CONC	-32+80HPY	7722	10	406	P	G	9				40.84	.04	21.33		3.45		11.39	16.24	6.35	.55	.01				.00	0.00	100.21	
GPRC-CONC	-32+80HPY	7722	10	410	P	G	9				41.12	.07	20.47		4.36		7.53	20.07	5.55	.38	.03			0.00	.00	0.00	99.58	
GPRC-CONC	-32+80HPY	7722	10	516	P	G	9				41.57	.54	21.48		2.16		9.01	19.06	5.36	.35	.02				.03	0.00	99.59	
GPRC-CONC	-32+80HPY	7722	10	608	P	G	9				41.51	.06	20.75		4.46		7.58	19.83	5.55	.37	0.00				.02	0.00	100.13	
GPRC-CONC	-32+80HPY	7722	10	709	P	G	9				41.61	.40	20.81		3.65		7.36	20.77	5.27	.28	.02				.05	.00	100.24	
GPRC-CONC	-32+80HPY	7722	10	911	P	G	9				41.63	.07	21.86		3.20		7.88	19.45	5.24	.53	0.00				.02	0.00	99.89	
GPRC-CONC	-32+80HPY	7722	11	103	P	G	9				41.80	.06	20.81		4.27		7.64	19.45	5.49	.34	.02				.01	0.00	99.88	

Comment:

Sample Name	Fraction	Mount	Cell	v4.812Classification			Rock/Temp		Trace																		
				Grain	SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
GPRC-CONC	-32+80HPY	7722	10	513	P	G	9-1			41.60	.41	20.99		3.61		6.70	21.29	4.99	.27	0.00					.03	0.00	99.89
GPRC-CONC	-32+80HPY	7722	10	515	P	G	9-1			41.76	.01	21.44		4.07		7.44	19.63	5.08	.47	.02					0.00	.01	99.93
GPRC-CONC	-32+80HPY	7722	10	517	P	G	9-1			41.24	.21	20.75		4.05		7.52	20.18	5.35	.37	0.00					.02	0.00	99.71
GPRC-CONC	-32+80HPY	7722	10	614	P	G	9-1			41.34	.27	20.87		3.89		7.60	20.32	5.20	.38	.03					.05	0.00	99.95
GPRC-CONC	-32+80HPY	7722	10	616	P	G	9-1			41.98	.40	21.01		3.70		6.75	21.12	4.97	.28	0.00					.05	.01	100.27
GPRC-CONC	-32+80HPY	7722	10	704	P	G	9-1			41.80	.17	21.47		3.73		6.95	20.59	5.08	.40	0.00					.02	.00	100.21
GPRC-CONC	-32+80HPY	7722	10	712	P	G	9-1			41.76	.37	20.91		3.65		6.57	21.42	4.91	.30	.01					.04	.00	99.92
GPRC-CONC	-32+80HPY	7722	10	713	P	G	9-1			41.65	.05	21.29		3.83		8.76	18.70	5.16	.56	0.00					.01	0.00	100.01
GPRC-CONC	-32+80HPY	7722	10	715	P	G	9-1			41.91	.45	20.32		4.10		7.17	20.59	5.07	.29	0.00					.03	.01	99.94
GPRC-CONC	-32+80HPY	7722	10	804	P	G	9-1			41.78	.17	21.87		3.10		7.65	20.24	4.93	.37	0.00					.04	.00	100.15
GPRC-CONC	-32+80HPY	7722	10	813	P	G	9-1			41.62	.06	21.34		3.92		7.42	20.30	4.99	.45	0.00					.03	.00	100.13
GPRC-CONC	-32+80HPY	7722	10	815	P	G	9-1			41.87	.19	21.92		3.07		7.67	20.63	4.94	.36	0.00					.02	.00	100.67
GPRC-CONC	-32+80HPY	7722	10	903	P	G	9-1			41.89	.06	21.83		3.61		7.56	19.67	4.96	.47	.00					.04	0.00	100.09
GPRC-CONC	-32+80HPY	7722	10	906	P	G	9-1			41.89	.19	21.01		4.10		6.39	20.35	5.19	.32	.02					.01	0.00	99.46
GPRC-CONC	-32+80HPY	7722	10	907	P	G	9-1			41.49	.05	21.12		4.51		7.16	20.38	5.07	.44	.00					.02	0.00	100.26
GPRC-CONC	-32+80HPY	7722	10	908	P	G	9-1			41.28	.20	21.29		3.67		7.60	20.40	5.22	.37	0.00					.03	0.00	100.07
GPRC-CONC	-32+80HPY	7722	10	912	P	G	9-1			41.58	.21	21.69		3.02		7.49	20.44	4.97	.35	.02					.04	.00	99.80
GPRC-CONC	-32+80HPY	7722	10	917	P	G	9-1			41.88	.17	21.35		3.85		7.04	20.12	5.20	.40	.00					.04	.00	100.05
GPRC-CONC	-32+80HPY	7722	11	101	P	G	9-1			41.72	.17	21.16		4.34		7.44	19.67	5.27	.40	.01					.03	.00	100.20
GPRC-CONC	-32+80HPY	7722	11	104	P	G	9-1			42.08	.17	21.04		4.20		6.36	20.52	5.18	.31	0.00					.05	0.00	99.91
GPRC-CONC	-32+80HPY	7722	11	107	P	G	9-1			41.28	.02	21.21		4.03		7.54	20.17	5.02	.47	.02					.04	0.00	99.81
GPRC-CONC	-32+80HPY	7729	10	110	P	G	9-1			41.41	.16	20.71		4.49		7.88	19.49	5.49	.45	.01					.02	.00	100.11
GPRC-CONC	-32+80HPY	7729	10	111	P	G	9-1			41.61	.42	20.94		3.75		7.89	19.94	5.20	.39	0.00					.05	.01	100.18
GPRC-CONC	-32+80HPY	7729	10	114	P	G	9-1			41.49	.13	21.18		4.24		7.45	19.74	5.19	.42	0.00					.03	.01	99.88
GPRC-CONC	-32+80HPY	7729	10	204	P	G	9-1			41.39	.42	21.52		3.42		7.98	19.77	5.07	.35	.05					.04	0.00	100.01
GPRC-CONC	-32+80HPY	7729	10	209	P	G	9-1			41.34	.23	20.78		4.53		7.64	19.99	5.12	.41	.02					.05	.01	100.11
GPRC-CONC	-32+80HPY	7729	10	510	P	G	9-1			41.57	.28	20.42		4.54		7.62	19.89	5.44	.35	.03					.05	0.00	100.19
GPRC-CONC	-32+80HPY	7729	10	511	P	G	9-1			41.72	.42	21.33		3.25		7.99	20.07	5.02	.34	.01					.04	0.00	100.20
GPRC-CONC	-32+80HPY	7729	10	513	P	G	9-1			41.82	.38	21.24		3.42		6.81	20.92	4.91	.30	.00					.03	0.00	99.83
GPRC-CONC	-32+80HPY	7729	10	514	P	G	9-1			41.69	.00	21.28		4.44		6.93	20.15	5.45	.42	.01					.00	.00	100.37
GPRC-CONC	-32+80HPY	7729	10	707	P	G	9-1			42.05	.39	21.30		2.64		7.04	21.07	4.79	.26	.05					.03	.00	99.63
GPRC-CONC	-32+80HPY	7729	10	710	P	G	9-1			41.83	.21	21.35		3.73		7.51	20.23	5.13	.41	0.00					.04	.01	100.44
GPRC-CONC	-32+80HPY	7729	10	712	P	G	9-1			41.85	.19	21.05		4.03		7.70	20.26	5.34	.35	.01					.02	0.00	100.78
GPRC-CONC	-32+80HPY	7729	10	812	P	G	9-1			41.61	.17	21.13		4.29		7.46	20.22	5.30	.42	.02					.04	.00	100.65
GPRC-CONC	-32+80HPY	7729	10	813	P	G	9-1			41.31	.32	20.76		4.16		7.56	19.89	5.27	.39	.04					.05	.01	99.75
GPRC-CONC	-32+80HPY	7729	10	814	P	G	9-1			41.91	.40	21.14		3.55		6.88	21.12	5.04	.29	.01					.05	0.00	100.39
GPRC-CONC	-32+80HPY	7729	10	906	P	G	9-1			41.82	.15	21.02		4.22		7.58	19.77	5.27	.44	.01					.01	0.00	100.30
GPRC-CONC	-32+80HPY	7729	10	907	P	G	9-1			41.41	.22	20.65		4.43		7.71	19.96	5.17	.42	.00					.04	0.00	100.01
GPRC-CONC	-32+80HPY	7729	11	415	P	G	9-1			41.62	.09	21.94		3.15		8.68	19.24	5.04	.46	0.00					.02	.00	100.26
GPRC-CONC	-32+80HPY	7729	20	102	P	G	9-1			41.50	.48	20.59		4.01		7.36	20.43	5.16	.31	0.00					.06	0.00	99.89

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																	
					SA	CFM	DI	M	C T(Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %	
GPRC-CONC	-32+80HPY	7729	20	104	P	G	9-1			41.78	.16	21.34		4.08		7.55	20.11	5.15	.43	0.00					.02	0.00	100.62
GPRC-CONC	-32+80HPY	7729	20	405	P	G	9-1			42.19	.03	22.93		2.03		7.76	20.74	4.72	.39	0.00					.02	0.00	100.79
GPRC-CONC	-32+80HPY	7729	20	411	P	G	9-1			41.72	.47	20.62		4.12		7.42	20.57	4.99	.31	.02					.06	0.00	100.30
GPRC-CONC	-32+80HPY	7729	20	501	P	G	9-1			41.44	.19	20.74		4.37		7.75	19.94	5.29	.43	0.00					.05	.00	100.20
GPRC-CONC	-32+80HPY	7700	10	308	P	G10-2				42.30	.01	21.84		3.80		7.19	21.29	3.22	.40	.03					.00	0.00	100.09
GPRC-CONC	-32+80HPY	7722	10	104	P	G10-2				41.35	.02	20.68		4.88		7.70	20.39	4.12	.47	0.00					.01	.00	99.62
GPRC-CONC	-32+80HPY	7722	10	113	P	G10-2				41.72	0.00	21.56		4.09		7.05	21.60	3.34	.44	0.00					.02	0.00	99.83
GPRC-CONC	-32+80HPY	7722	10	212	P	G10-2				42.03	.01	21.46		3.89		7.20	21.23	3.30	.41	0.00					0.00	0.00	99.54
GPRC-CONC	-32+80HPY	7722	10	505	P	G10-2				42.13	0.00	21.67		3.81		7.23	21.34	3.23	.41	.04					.01	.01	99.90
GPRC-CONC	-32+80HPY	7722	10	508	P	G10-2				42.27	0.00	21.95		3.87		7.30	20.99	3.30	.41	.02					.01	0.00	100.14
GPRC-CONC	-32+80HPY	7722	10	611	P	G10-2				42.25	.00	21.76		3.72		7.25	21.26	3.28	.42	.00					.03	0.00	99.97
GPRC-CONC	-32+80HPY	7722	10	807	P	G10-2				42.21	.00	21.95		3.70		7.15	21.26	3.36	.41	0.00					0.00	0.00	100.04
GPRC-CONC	-32+80HPY	7722	10	808	P	G10-2				41.86	0.00	21.61		3.98		7.10	21.98	3.40	.40	0.00					.02	0.00	100.35
GPRC-CONC	-32+80HPY	7722	10	812	P	G10-2				41.86	.00	21.58		3.80		7.20	21.75	3.42	.41	.01					.01	.01	100.05
GPRC-CONC	-32+80HPY	7722	10	814	P	G10-2				41.73	.01	21.76		3.89		7.19	21.66	3.33	.40	0.00					0.00	0.00	99.96
GPRC-CONC	-32+80HPY	7722	10	904	P	G10-2				42.04	.00	21.79		3.80		7.20	21.26	3.32	.38	0.00					.02	.01	99.82
GPRC-CONC	-32+80HPY	7722	11	108	P	G10-2				41.69	0.00	21.64		3.87		7.10	21.71	3.55	.42	.01					.02	0.00	100.01
GPRC-CONC	-32+80HPY	7722	11	110	P	G10-2				41.84	0.00	21.69		3.91		7.38	21.76	3.32	.39	.01					.01	0.00	100.30
GPRC-CONC	-32+80HPY	7729	10	212	P	G10-2				41.93	0.00	21.79		3.73		7.26	21.54	3.21	.43	.02					.02	.00	99.94
GPRC-CONC	-32+80HPY	7729	10	213	P	G10-2				41.97	.01	21.85		3.89		7.22	21.48	3.33	.42	.00					.01	.01	100.21
GPRC-CONC	-32+80HPY	7729	10	214	P	G10-2				42.05	.01	21.86		3.81		7.21	21.62	3.40	.40	.01					.02	0.00	100.38
GPRC-CONC	-32+80HPY	7729	10	512	P	G10-2				41.98	.00	21.80		3.88		7.25	21.68	3.29	.40	.01					.02	0.00	100.32
GPRC-CONC	-32+80HPY	7729	10	603	P	G10-2				42.22	0.00	21.84		3.81		7.32	21.73	3.35	.42	0.00					.01	.00	100.70
GPRC-CONC	-32+80HPY	7729	10	807	P	G10-2				41.96	0.00	21.77		3.90		7.26	21.57	3.34	.43	.01					.02	.01	100.26
GPRC-CONC	-32+80HPY	7729	10	902	P	G10-2				42.21	0.00	21.91		3.75		7.28	21.76	3.33	.40	0.00					.01	.01	100.66
GPRC-CONC	-32+80HPY	7729	20	106	P	G10-2				41.23	.28	18.80		6.74		6.33	21.13	4.67	.34	.00					.06	0.00	99.58
GPRC-CONC	-32+80HPY	7729	20	401	P	G10-2				41.84	.01	21.82		3.78		7.32	21.64	3.28	.42	0.00					.01	0.00	100.11
GPRC-CONC	-32+80HPY	7729	20	406	P	G10-2				42.03	.00	21.90		3.78		7.55	21.64	3.25	.42	0.00					.03	.01	100.61
GPRC-CONC	-32+80HPY	7729	20	412	P	G10-2				42.21	0.00	21.78		3.73		7.26	21.71	3.25	.45	0.00					.02	.00	100.40
GPRC-CONC	-32+80HPY	7729	20	505	P	G10-2				42.04	.00	22.07		3.55		7.33	21.56	3.39	.44	.01					.02	.01	100.43
GPRC-CONC	-32+80HPY	7700	10	102	P	G11				41.54	.11	17.69		7.99		6.33	19.41	6.74	.32	0.00					.01	0.00	100.14
GPRC-CONC	-32+80HPY	7700	10	110	P	G11				41.51	.53	19.06		5.81		6.77	19.51	6.10	.28	.01					.01	.00	99.60
GPRC-CONC	-32+80HPY	7700	10	206	P	G11				41.54	0.00	20.25		5.47		7.01	19.43	5.92	.44	.01					.03	0.00	100.09
GPRC-CONC	-32+80HPY	7700	10	209	P	G11				41.54	.17	20.56		4.72		7.86	19.64	5.64	.43	0.00					.05	0.00	100.61
GPRC-CONC	-32+80HPY	7700	10	212	P	G11				40.46	.64	15.48		9.82		7.03	18.31	7.64	.32	.03					.02	.00	99.74
GPRC-CONC	-32+80HPY	7700	10	303	P	G11				41.93	.10	20.03		5.41		6.02	20.29	5.95	.28	.01					.01	0.00	100.02
GPRC-CONC	-32+80HPY	7700	10	306	P	G11				41.36	.05	19.03		6.71		7.03	18.74	6.49	.39	0.00					.01	.00	99.81
GPRC-CONC	-32+80HPY	7722	10	101	P	G11				40.45	.09	18.29		7.35		6.90	18.72	6.98	.45	.00					.02	.00	99.24
GPRC-CONC	-32+80HPY	7722	10	213	P	G11				41.29	.26	18.57		6.66		7.44	18.76	6.17	.37	.01					.03	0.00	99.57
GPRC-CONC	-32+80HPY	7722	10	302	P	G11				40.20	.60	15.22		10.01		7.02	18.47	7.58	.32	.01					.04	0.00	99.47

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C															T (Zn) °C	Na2O wt %
GPRC-CONC	-32+80HPY	7722	10	303	P	G11			40.68	.00	19.77		5.69		7.48	19.46	5.98	.49	0.00			.02		0.00	99.56
GPRC-CONC	-32+80HPY	7722	10	305	P	G11			40.14	.12	16.42		9.96		6.92	17.84	7.85	.40	0.00			.02		0.00	99.66
GPRC-CONC	-32+80HPY	7722	10	306	P	G11			40.91	.50	18.67		5.83		6.86	20.05	6.06	.26	.06			.03		.00	99.23
GPRC-CONC	-32+80HPY	7722	10	402	P	G11			41.29	.02	20.64		5.05		6.92	19.15	5.72	.50	0.00			.03		0.00	99.31
GPRC-CONC	-32+80HPY	7722	10	403	P	G11			40.88	.47	18.76		5.91		6.75	20.27	6.12	.30	.01			.03		0.00	99.51
GPRC-CONC	-32+80HPY	7722	10	411	P	G11			41.01	.05	18.88		6.78		6.94	18.85	6.47	.37	0.00			.01		0.00	99.38
GPRC-CONC	-32+80HPY	7722	10	414	P	G11			41.21	.05	18.78		6.75		7.02	18.63	6.56	.38	0.00			.02		0.00	99.40
GPRC-CONC	-32+80HPY	7722	10	501	P	G11			41.19	.12	17.80		7.77		7.07	18.41	6.53	.37	0.00			.01		0.00	99.26
GPRC-CONC	-32+80HPY	7722	10	512	P	G11			41.73	.16	20.32		4.64		7.70	19.17	5.59	.42	0.00			.02		.01	99.74
GPRC-CONC	-32+80HPY	7722	10	514	P	G11			40.92	.04	18.88		7.16		6.91	19.03	6.49	.41	0.00			.01		0.00	99.85
GPRC-CONC	-32+80HPY	7722	10	602	P	G11			41.34	.15	20.40		4.94		7.85	19.04	5.67	.42	.00			.02		0.00	99.82
GPRC-CONC	-32+80HPY	7722	10	604	P	G11			41.20	.05	19.02		7.03		6.91	19.10	6.49	.43	0.00			.01		.00	100.24
GPRC-CONC	-32+80HPY	7722	10	605	P	G11			40.86	.07	18.83		7.09		6.90	19.34	6.54	.40	.00			.02		0.00	100.05
GPRC-CONC	-32+80HPY	7722	10	606	P	G11			40.87	.11	17.42		8.39		6.23	19.77	6.73	.31	.00			.01		.00	99.83
GPRC-CONC	-32+80HPY	7722	10	610	P	G11			41.38	.54	18.47		6.55		6.88	19.52	6.33	.31	0.00			.03		0.00	100.01
GPRC-CONC	-32+80HPY	7722	10	612	P	G11			40.83	.07	18.65		7.18		6.97	19.25	6.47	.36	0.00			.02		.00	99.80
GPRC-CONC	-32+80HPY	7722	10	615	P	G11			41.11	.12	17.61		8.27		6.22	19.35	6.74	.30	.00			.02		.00	99.73
GPRC-CONC	-32+80HPY	7722	10	706	P	G11			42.01	.07	20.08		5.44		6.05	20.14	5.94	.29	.03			.02		0.00	100.07
GPRC-CONC	-32+80HPY	7722	10	707	P	G11			41.42	.05	19.16		6.69		6.94	18.33	6.47	.37	0.00			.01		0.00	99.44
GPRC-CONC	-32+80HPY	7722	10	711	P	G11			41.04	.04	17.85		7.81		6.92	18.51	6.66	.37	0.00			0.00		0.00	99.20
GPRC-CONC	-32+80HPY	7722	10	717	P	G11			41.05	.06	18.83		6.82		6.97	18.76	6.58	.41	.01			.02		.01	99.51
GPRC-CONC	-32+80HPY	7722	10	805	P	G11			41.80	0.00	20.72		5.00		6.84	19.39	5.84	.40	0.00			.01		.00	100.00
GPRC-CONC	-32+80HPY	7722	10	809	P	G11			41.25	.50	18.88		5.93		6.91	19.95	6.12	.29	.02			.01		.00	99.87
GPRC-CONC	-32+80HPY	7722	10	902	P	G11			41.39	.02	20.60		5.04		7.07	19.33	5.73	.52	.02			.02		0.00	99.74
GPRC-CONC	-32+80HPY	7722	10	914	P	G11			41.56	.51	18.88		5.96		6.84	19.56	6.17	.29	.01			.02		0.00	99.80
GPRC-CONC	-32+80HPY	7722	11	102	P	G11			41.17	.14	19.80		5.10		7.70	19.46	5.83	.43	0.00			.03		.00	99.67
GPRC-CONC	-32+80HPY	7729	10	113	P	G11			41.24	.12	17.64		8.20		6.43	19.48	6.71	.31	.01			.00		.00	100.14
GPRC-CONC	-32+80HPY	7729	10	208	P	G11			41.24	.08	19.42		6.12		7.14	19.28	6.00	.37	.01			.04		0.00	99.68
GPRC-CONC	-32+80HPY	7729	10	414	P	G11			41.56	.48	19.10		5.46		6.97	20.00	5.99	.30	.03			.01		.00	99.91
GPRC-CONC	-32+80HPY	7729	10	706	P	G11			41.15	.35	18.84		6.37		7.45	19.16	6.18	.42	0.00			.04		.01	99.97
GPRC-CONC	-32+80HPY	7729	10	711	P	G11			41.54	.14	18.74		6.60		6.24	20.10	6.17	.31	.01			.02		.00	99.87
GPRC-CONC	-32+80HPY	7729	10	713	P	G11			40.78	.57	18.51		6.50		7.45	18.68	6.20	.38	.00			.06		.01	99.15
GPRC-CONC	-32+80HPY	7729	10	805	P	G11			41.09	.63	19.63		5.25		7.54	19.50	5.80	.37	.04			.06		.00	99.90
GPRC-CONC	-32+80HPY	7729	10	808	P	G11			40.69	.09	17.71		7.52		7.27	18.77	6.47	.39	0.00			.03		0.00	98.93
GPRC-CONC	-32+80HPY	7729	10	809	P	G11			41.62	.18	20.40		4.64		7.92	19.63	5.64	.46	.03			.02		.00	100.56
GPRC-CONC	-32+80HPY	7729	10	811	P	G11			41.37	.14	19.49		6.14		7.45	19.11	6.21	.51	.01			.01		0.00	100.44
GPRC-CONC	-32+80HPY	7729	10	901	P	G11			41.19	.08	19.57		5.53		7.74	19.17	6.28	.43	.01			.03		0.00	100.02
GPRC-CONC	-32+80HPY	7729	10	903	P	G11			41.28	.15	20.49		4.59		8.02	19.33	5.54	.43	.02			.03		.00	99.88
GPRC-CONC	-32+80HPY	7729	11	414	P	G11			41.22	.09	19.40		5.59		6.73	19.46	6.30	.31	.01			.00		.00	99.10
GPRC-CONC	-32+80HPY	7729	20	402	P	G11			41.03	.24	19.72		5.32		9.14	17.75	6.02	.54	.02			.06		0.00	99.84

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace														
					SA	CFM	DI	M	C T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %
GPRC-CONC	-32+80HPY	7729	20	408	P	G11			41.15	.05	19.02		6.62		7.08	18.97	6.49	.40	.03			.02	0.00	99.83
GPRC-CONC	-32+80HPY	7700	10	111	P	G11-1			41.52	.32	19.91		5.15		7.48	19.77	5.37	.38	.02			.04	.00	99.97
GPRC-CONC	-32+80HPY	7700	10	201	P	G11-1			41.82	.11	20.29		5.46		7.03	19.57	5.71	.41	.03			.02	0.00	100.44
GPRC-CONC	-32+80HPY	7700	10	203	P	G11-1			40.80	.37	17.72		7.54		7.61	18.46	6.30	.35	.02			.05	0.00	99.23
GPRC-CONC	-32+80HPY	7700	10	204	P	G11-1			41.02	.08	17.95		7.67		7.11	18.63	6.40	.36	.00			.02	.00	99.24
GPRC-CONC	-32+80HPY	7700	10	207	P	G11-1			42.06	.10	20.32		5.25		7.05	19.41	5.73	.38	0.00			.03	0.00	100.32
GPRC-CONC	-32+80HPY	7700	10	208	P	G11-1			42.03	.10	19.02		6.46		6.22	19.93	6.09	.25	0.00			.03	0.00	100.13
GPRC-CONC	-32+80HPY	7700	10	213	P	G11-1			41.96	.26	19.81		5.40		7.08	19.99	5.64	.37	0.00			.04	.01	100.57
GPRC-CONC	-32+80HPY	7700	10	301	P	G11-1			41.84	.11	20.73		4.81		6.90	20.12	4.94	.42	0.00			.02	0.00	99.89
GPRC-CONC	-32+80HPY	7700	10	302	P	G11-1			41.55	.20	18.72		7.23		6.16	19.84	5.80	.37	.03			.06	.00	99.96
GPRC-CONC	-32+80HPY	7700	10	307	P	G11-1			41.66	.19	18.40		7.36		5.92	20.29	5.76	.40	0.00			.04	.01	100.03
GPRC-CONC	-32+80HPY	7700	10	309	P	G11-1			41.62	.19	18.91		7.00		6.05	20.08	5.70	.37	0.00			.05	0.00	99.96
GPRC-CONC	-32+80HPY	7722	10	110	P	G11-1			40.95	.29	19.85		5.35		7.35	19.86	5.43	.38	.01			.05	0.00	99.52
GPRC-CONC	-32+80HPY	7722	10	111	P	G11-1			40.86	.62	18.77		6.17		6.66	20.10	5.72	.37	0.00			.06	0.00	99.34
GPRC-CONC	-32+80HPY	7722	10	112	P	G11-1			41.67	.01	20.76		4.95		7.50	19.13	5.18	.47	0.00			.01	0.00	99.69
GPRC-CONC	-32+80HPY	7722	10	202	P	G11-1			40.32	.67	17.56		7.39		6.69	19.78	6.12	.35	.02			.09	0.00	98.98
GPRC-CONC	-32+80HPY	7722	10	205	P	G11-1			41.17	.20	19.26		5.77		7.81	19.52	5.76	.38	.01			.02	.01	99.88
GPRC-CONC	-32+80HPY	7722	10	208	P	G11-1			40.92	.26	18.59		6.93		5.99	20.44	5.66	.34	0.00			.05	.01	99.19
GPRC-CONC	-32+80HPY	7722	10	301	P	G11-1			40.92	.25	19.27		5.86		7.13	20.01	5.36	.41	.03			.04	.01	99.28
GPRC-CONC	-32+80HPY	7722	10	307	P	G11-1			40.49	.10	17.49		8.44		6.96	19.15	6.52	.40	0.00			.00	.01	99.56
GPRC-CONC	-32+80HPY	7722	10	313	P	G11-1			40.63	.46	18.29		6.84		7.42	19.45	6.04	.40	0.00			.06	0.00	99.59
GPRC-CONC	-32+80HPY	7722	10	314	P	G11-1			40.87	.20	18.20		7.84		5.96	20.20	5.76	.35	.02			.06	.00	99.45
GPRC-CONC	-32+80HPY	7722	10	401	P	G11-1			41.32	.13	18.52		7.01		6.15	20.25	6.06	.33	0.00			.02	0.00	99.80
GPRC-CONC	-32+80HPY	7722	10	408	P	G11-1			40.48	.28	18.45		7.02		7.53	19.32	6.06	.41	0.00			.04	0.00	99.59
GPRC-CONC	-32+80HPY	7722	10	409	P	G11-1			40.93	.38	19.76		5.04		7.66	20.01	5.42	.38	0.00			.03	.00	99.61
GPRC-CONC	-32+80HPY	7722	10	412	P	G11-1			40.90	.09	19.82		5.56		6.97	20.03	5.74	.41	.01			.01	0.00	99.54
GPRC-CONC	-32+80HPY	7722	10	413	P	G11-1			40.75	.18	18.39		7.47		6.05	20.31	5.67	.34	0.00			.04	.01	99.21
GPRC-CONC	-32+80HPY	7722	10	416	P	G11-1			41.52	.39	18.47		7.01		6.67	19.20	5.95	.35	0.00			.02	.01	99.60
GPRC-CONC	-32+80HPY	7722	10	502	P	G11-1			41.47	.15	19.97		5.22		7.82	19.24	5.46	.37	.02			.03	0.00	99.75
GPRC-CONC	-32+80HPY	7722	10	503	P	G11-1			41.38	.59	19.55		5.29		6.54	20.00	5.67	.35	0.00			.08	.01	99.46
GPRC-CONC	-32+80HPY	7722	10	506	P	G11-1			41.41	.19	20.38		4.94		7.63	19.73	5.26	.43	.01			.04	.00	100.01
GPRC-CONC	-32+80HPY	7722	10	509	P	G11-1			40.59	.10	17.52		8.28		7.03	19.04	6.46	.39	0.00			.02	.00	99.43
GPRC-CONC	-32+80HPY	7722	10	510	P	G11-1			41.19	.29	19.14		6.08		8.36	18.45	5.75	.46	.00			.04	0.00	99.76
GPRC-CONC	-32+80HPY	7722	10	601	P	G11-1			40.72	.09	19.77		5.71		7.02	20.17	5.72	.38	0.00			.03	.00	99.64
GPRC-CONC	-32+80HPY	7722	10	603	P	G11-1			41.72	.23	20.36		4.60		6.67	19.95	5.51	.28	.02			.02	.00	99.35
GPRC-CONC	-32+80HPY	7722	10	609	P	G11-1			41.94	.10	20.97		4.78		6.81	19.91	4.87	.41	.03			.01	.00	99.84
GPRC-CONC	-32+80HPY	7722	10	613	P	G11-1			41.06	.39	18.20		7.24		6.48	19.53	6.17	.37	.01			.03	.00	99.49
GPRC-CONC	-32+80HPY	7722	10	701	P	G11-1			41.30	.22	20.72		4.66		7.41	20.09	5.21	.40	.01			.03	.00	100.04
GPRC-CONC	-32+80HPY	7722	10	703	P	G11-1			40.86	.13	16.34		9.55		6.21	19.04	6.79	.29	.03			.01	.00	99.25
GPRC-CONC	-32+80HPY	7722	10	714	P	G11-1			40.69	.84	15.93		9.55		6.31	19.03	6.46	.33	0.00			.10	.00	99.24

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		Trace																	
					SA	CFM	DI	M	C	T (Zn) °C	SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	K2O wt %	Total wt %
GPRC-CONC	-32+80HPY	7722	10	716	P	G11-1				41.41	.08	19.45		6.18	7.04	19.29	6.00	.38	0.00						.02	.01	99.85
GPRC-CONC	-32+80HPY	7722	10	801	P	G11-1				41.32	.11	19.95		5.66	6.92	19.84	5.72	.40	.03						.02	0.00	99.95
GPRC-CONC	-32+80HPY	7722	10	802	P	G11-1				41.65	.05	20.76		4.75	7.32	19.84	5.21	.42	.00						.03	.00	100.04
GPRC-CONC	-32+80HPY	7722	10	803	P	G11-1				41.37	.36	19.47		5.58	7.50	19.39	5.71	.39	0.00						.04	.00	99.83
GPRC-CONC	-32+80HPY	7722	10	810	P	G11-1				41.30	.36	19.93		4.72	7.61	19.92	5.41	.41	0.00						.04	.01	99.70
GPRC-CONC	-32+80HPY	7722	10	811	P	G11-1				41.08	.05	20.81		4.57	7.24	20.46	5.16	.38	.02						.02	0.00	99.80
GPRC-CONC	-32+80HPY	7722	10	817	P	G11-1				40.84	.01	16.83		9.73	6.75	18.18	6.97	.44	.00					0.00	.00	99.75	
GPRC-CONC	-32+80HPY	7722	10	901	P	G11-1				41.39	.09	19.04		6.50	6.37	19.22	6.06	.31	.01						.00	.01	98.99
GPRC-CONC	-32+80HPY	7722	10	905	P	G11-1				40.72	.11	17.74		7.91	7.03	19.17	6.39	.39	.02						.02	0.00	99.49
GPRC-CONC	-32+80HPY	7722	10	909	P	G11-1				40.81	.82	16.06		9.38	6.44	19.01	6.47	.33	0.00						.07	0.00	99.38
GPRC-CONC	-32+80HPY	7722	10	910	P	G11-1				41.30	.19	20.51		4.80	7.71	19.60	5.58	.41	.01						.02	.00	100.13
GPRC-CONC	-32+80HPY	7722	10	913	P	G11-1				41.66	0.00	20.52		5.17	7.14	19.45	5.39	.44	.01						.01	0.00	99.79
GPRC-CONC	-32+80HPY	7722	10	915	P	G11-1				41.31	.31	18.71		6.72	7.64	18.32	6.12	.43	.01						.05	.01	99.64
GPRC-CONC	-32+80HPY	7722	10	916	P	G11-1				41.66	.10	20.09		5.25	7.19	19.28	5.62	.40	0.00						.01	0.00	99.61
GPRC-CONC	-32+80HPY	7722	11	106	P	G11-1				41.71	.09	19.16		6.48	6.16	19.77	6.03	.29	.03						.00	0.00	99.73
GPRC-CONC	-32+80HPY	7722	11	109	P	G11-1				41.58	.11	20.18		5.43	7.01	19.58	5.69	.40	.01						.02	.01	100.02
GPRC-CONC	-32+80HPY	7729	10	106	P	G11-1				41.35	.01	20.98		4.81	7.55	19.63	5.15	.47	0.00						.02	.01	99.97
GPRC-CONC	-32+80HPY	7729	10	107	P	G11-1				41.23	.10	20.09		5.48	7.04	19.70	5.69	.41	0.00						.01	.00	99.77
GPRC-CONC	-32+80HPY	7729	10	108	P	G11-1				41.17	.23	18.92		6.75	6.47	19.90	5.90	.34	0.00						.05	0.00	99.73
GPRC-CONC	-32+80HPY	7729	10	109	P	G11-1				41.44	.19	18.50		7.63	6.19	19.90	5.77	.39	0.00						.06	.00	100.07
GPRC-CONC	-32+80HPY	7729	10	112	P	G11-1				41.90	.20	20.51		4.61	6.66	20.46	5.51	.30	.01						.01	.01	100.17
GPRC-CONC	-32+80HPY	7729	10	115	P	G11-1				41.40	.13	20.09		5.54	6.95	20.11	5.46	.42	0.00						.04	.00	100.13
GPRC-CONC	-32+80HPY	7729	10	201	P	G11-1				40.99	.34	19.76		5.33	7.66	19.46	5.56	.43	0.00						.05	.00	99.58
GPRC-CONC	-32+80HPY	7729	10	203	P	G11-1				41.14	.30	19.82		5.36	7.75	19.62	5.42	.36	0.00						.05	0.00	99.81
GPRC-CONC	-32+80HPY	7729	10	205	P	G11-1				41.10	.19	18.55		7.41	6.23	19.90	5.71	.37	0.00						.04	0.00	99.49
GPRC-CONC	-32+80HPY	7729	10	206	P	G11-1				41.46	.03	20.87		4.91	7.26	19.69	5.26	.45	0.00						.04	0.00	99.98
GPRC-CONC	-32+80HPY	7729	10	207	P	G11-1				41.15	.07	19.53		6.06	7.27	19.28	5.91	.39	.02						.03	0.00	99.70
GPRC-CONC	-32+80HPY	7729	10	210	P	G11-1				41.83	.23	20.35		4.65	6.58	20.52	5.50	.29	.00						.04	.00	100.00
GPRC-CONC	-32+80HPY	7729	10	211	P	G11-1				41.46	.64	19.66		5.54	6.42	20.21	5.72	.35	0.00						.08	.01	100.09
GPRC-CONC	-32+80HPY	7729	10	415	P	G11-1				40.47	.01	15.27		11.00	6.31	18.68	6.91	.35	0.00					0.00	0.00	0.00	99.01
GPRC-CONC	-32+80HPY	7729	10	503	P	G11-1				41.57	.62	19.66		5.36	6.56	20.47	5.62	.36	.03						.08	0.00	100.33
GPRC-CONC	-32+80HPY	7729	10	509	P	G11-1				41.20	.00	20.14		5.63	6.87	19.53	5.82	.48	.01						.00	.01	99.70
GPRC-CONC	-32+80HPY	7729	10	601	P	G11-1				41.39	.10	19.05		6.46	6.14	20.08	5.98	.26	.01						.01	0.00	99.46
GPRC-CONC	-32+80HPY	7729	10	602	P	G11-1				41.21	.16	20.54		4.67	7.72	19.41	5.54	.44	.04						.02	.01	99.76
GPRC-CONC	-32+80HPY	7729	10	708	P	G11-1				41.38	.39	20.50		4.60	7.83	19.82	5.30	.43	.04						.02	0.00	100.31
GPRC-CONC	-32+80HPY	7729	10	709	P	G11-1				40.63	.86	15.92		9.30	6.44	19.36	6.66	.32	.01						.07	.00	99.57
GPRC-CONC	-32+80HPY	7729	10	801	P	G11-1				41.43	.11	18.90		6.54	6.18	20.16	6.05	.30	.00						.01	.01	99.70
GPRC-CONC	-32+80HPY	7729	10	802	P	G11-1				40.79	.31	18.09		7.54	7.51	18.90	6.24	.38	.03						.04	.00	99.83
GPRC-CONC	-32+80HPY	7729	10	804	P	G11-1				41.49	.16	20.63		4.63	7.80	19.51	5.55	.44	.02						.04	.00	100.25
GPRC-CONC	-32+80HPY	7729	10	806	P	G11-1				41.52	.01	20.31		5.42	6.84	19.67	5.63	.47	0.00						.00	.00	99.88

Comment:

Sample Name	Fraction	Mount	Cell	Grain	v4.812Classification			Rock/Temp		SiO2 wt %	TiO2 wt %	Al2O3 wt %	V2O3 wt %	Cr2O3 wt %	Fe2O3 wt %	FeO wt %	MgO wt %	CaO wt %	MnO wt %	NiO wt %	ZnO wt %	Nb2O5 wt %	Na2O wt %	Na2O wt %	Trace	
					SA	CFM	DI	M	C																T (Zn) °C	K2O wt %
GPRC-CONC	-32+80HPY	7729	10	810	P	G11-1			41.50	.18	18.93		6.98		6.28	20.45	5.76	.37	.03				.05		.00	100.54
GPRC-CONC	-32+80HPY	7729	10	905	P	G11-1			40.67	.03	15.17		11.10		6.33	18.93	6.98	.38	.01				.02		.00	99.63
GPRC-CONC	-32+80HPY	7729	11	416	P	G11-1			41.67	.01	20.50		5.11		7.14	20.03	5.30	.47	.01				.03		0.00	100.26
GPRC-CONC	-32+80HPY	7729	20	101	P	G11-1			41.04	.31	19.74		5.52		8.48	19.16	5.49	.46	.00				.05		.00	100.24
GPRC-CONC	-32+80HPY	7729	20	103	P	G11-1			41.12	.40	18.42		7.13		6.56	19.64	6.15	.37	.03				.03		.01	99.87
GPRC-CONC	-32+80HPY	7729	20	105	P	G11-1			41.49	.11	18.96		6.37		6.20	20.04	6.01	.30	.02				.02		0.00	99.51
GPRC-CONC	-32+80HPY	7729	20	407	P	G11-1			41.48	.07	19.52		5.94		7.26	19.53	5.93	.40	0.00				.02		0.00	100.14
GPRC-CONC	-32+80HPY	7729	20	409	P	G11-1			41.45	.20	18.59		7.46		6.24	20.18	5.75	.39	0.00				.05		0.00	100.30
GPRC-CONC	-32+80HPY	7729	20	410	P	G11-1			41.54	.10	18.77		6.87		6.33	20.05	6.06	.29	0.00				.01		.00	100.04
GPRC-CONC	-32+80HPY	7729	20	413	P	G11-1			41.18	.11	18.14		7.52		7.08	19.22	6.34	.39	.04				.03		0.00	100.04
GPRC-CONC	-32+80HPY	7729	20	414	P	G11-1			41.09	.29	19.47		5.64		8.45	18.80	5.84	.45	.03				.05		.00	100.11
GPRC-CONC	-32+80HPY	7729	20	502	P	G11-1			41.57	.18	19.22		6.48		6.09	20.20	5.53	.37	.01				.05		.01	99.72
GPRC-CONC	-32+80HPY	7729	20	504	P	G11-1			41.18	.20	18.53		7.53		6.17	20.14	5.78	.36	.01				.04		.00	99.93
GPRC-CONC	-32+80HPY	7729	20	506	P	G11-1			40.75	.84	15.97		9.44		6.51	19.25	6.65	.34	0.00				.07		.00	99.83
GPRC-CONC	-32+80HPY	7729	20	507	P	G11-1			41.35	.25	19.97		5.52		7.19	19.87	5.64	.38	0.00				.05		.00	100.23
GPRC-CONC	-32+80HPY	7729	20	508	P	G11-1			41.10	.19	18.56		7.17		6.28	19.89	5.72	.37	.05				.04		0.00	99.36
GPRC-CONC	-32+80HPY	7729	20	503	P	G11-1		DI	41.08	.28	18.34		7.36		7.56	19.10	6.10	.40	.03				.06		0.00	100.30
GPRC-CONC	-32+80HPY	7722	10	702	P	G11-1		DI*	40.93	.18	18.20		7.92		6.18	20.48	5.83	.36	0.00				.04		.00	100.13
GPRC-CONC	-32+80HPY	7729	10	502	P	G11		DIO	41.42	.08	18.28		7.47		6.20	19.64	6.43	.31	.01				.02		.00	99.86
GPRC-CONC	-32+80HPY	7722	10	507	P	G11-1		DIO	40.91	.19	18.76		7.36		5.94	20.55	5.61	.35	.02				.04		.00	99.73
GPRC-CONC	-32+80HPY	7729	10	803	P	G11-1		DIO	40.45	.84	15.87		9.41		6.32	19.29	6.65	.33	.00				.08		.00	99.26
GPRC-CONC	-32+80HPY	7729	10	815	P	G11-1		DIO	39.99	.15	13.47		12.81		6.73	17.62	7.65	.32	.04				.04		0.00	98.82

DMS Processing Data

sampleID	ISubSample	TotalWt (kg)	Tare Wt (kg)	Calc Start Wt (kg)	Cumulative Wt (kg)	Drying Pan	Wet Wt In Pan(kg)	DryWt In Pan(kg)	PanWt (kg)	CalcWet Wt (kg)	Calc Dry Wt(kg)	Moisture Removed (kg)	ProcessingDate Started	ProcessingDate Completed (Includ'08 Plant Cleanup)	Notes
Paradis Pond RC	Part#1	548	53.5	494.5	1069.5	P	6.390	6.190	1.065	5.325	5.125	0.200	Tuesday, February 9, 2021	Wednesday, February 10, 2021	Fabric from bag within sample
	Part#2	615.5	40.5	575		3	7.475	7.330	1.070	6.405	6.260	0.145			
Gleason RC	Drum #1	224	13	211	1509	G	7.830	7.685	0.000	6.840	6.605	0.145	Friday, February 12, 2021	Tuesday, February 16, 2021	
	Drum #2	328.5	12	316.5		F	8.300	8.155	1.075	7.225	7.080	0.145			
	Drum#3	353.5	12	341.5		2	7.260	6.815	1.120	6.140	5.695	0.445			
	Drum#4	352.5	14	338.5		MA	7.490	7.005	1.065	6.425	5.940	0.485			
	Drum#5	31.3	11.5	301.5		E	6.760	6.485	1.065	5.695	5.420	0.275			
Robin's Place RC	Drum#1	239.5	12	227.5	1131	4	6.4	6.245	0.000	5.410	5.255	0.155	Friday, February 19, 2021	Monday, February 22, 2021	
	Drum#2	331	14.5	316.5		L	6.64	6.5	1.125	5.515	5.375	0.140			
	Drum#3	298	12	286		MA	6.90	6.825	1.010	5.730	5.615	0.115			
	Drum#4	316.5	15.5	301		2	7.9	7.835	1.070	6.830	6.765	0.065			

Observation Data

Sample ID	Batch ID	Plant	Observer	Date Observation Started	Date Observation Completed	Number of Times Sample Observed	Hours Spent Observing	Number of Diamonds Recovered	Number of Spike Grains Recovered	Spike Comments	Other Recovered	Comments on Other Recovered	Observation Comments
Pine Pond RC	2HUC-OMS02	RIK	Chris S.	22-Feb-21	23-Feb-21	2	6.5	0	0		24	20 Pyr Gar, 1 Gold Gr, 3 Ed Gr	
Gleason RC	21-RIK-OMS02	RIK	Chris S.	23-Feb-21	24-Feb-21	2	3.75	0	0		16	12 Pyr Gar, 4 Ed Gr	
Robin's Place RC	21-RIK-OMS02	RIK	Chris B.	25-Feb-21	25-Feb-21	2	1.5	0	0		8	Broken Carbide, 7 Pyr Gar, 1 Ed Gr	

Observation Data

Sample LO	Batch ID	Date Reported	Total #Diamonds Recovered	Diamonds 100 mm Sieve	Diamonds 0500mm SI@Vc	Diamonds 0500mm In One Dimension	0015 to 0106mm Square Mesh	0106 to 0150mm 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 C ₁	0425 to 0600mm Square Mesh	0425 to 0600mm Total Wt G	0425 to 0600mm Total Wt C ₁	0600 to 0850mm Square Mesh	0600 to 0850mm Total Wt G	0600 to 0850mm Total Wt C ₁	0850 to 118mm Square Mesh	0850 to 118mm Total Wt G
Paradis Pond RC	21-RJK-DMS02	23-Feb-21	0								0	0		0	0		0	0		0	0
Gleason RC	21-RJK-DMS02	24-Feb-21	0								0	0		0	0		0	0		0	0
Robin's Place RC	21-RJK-DMS02	26-Feb-21	0								0	0		0	0		0	0		0	0



Observation Data

SampleID	Bat< IO	OSSO to 118mm TotalWt Ct	118 to 170mm Square Me-sh Total Wt G	118 to 170mm Total Wt Ct	118to 170mm Square Mesh TotalWt G	170to 236mm TotalWt G	170to 236mm TotalWt Ct	236to 335mm Square Mesh TotalWt G	236to 335mm TotalWt Ct	335 to 475mm Total Wt G	335to 475mm Total Wt Ct	475mm Square Mesh Total Wt G	475 mm TotalWt G	475mm Total Wt Ct
Paradis Pond RC	21-RJK-OMS02	0	0	0	0	0	0	0	0	0	0	0	0	0
Gill'ason RC	21-RJK-OMS02	0	0	0	0	0	0	0	0	0	0	0	0	0
Robin's Place RC	21-RJK-OMS02	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_k11:	Sample_Wt_Dry_k	Sample_Wt_IMproc_k	Sample_Wt_Proc_k	Low_MeshSize_mm	Prim_Burns_No	Sec_Burns_No
Paradis Pond RC				21-RJK-DMS02	2/11/2021		36.1SS	0.000	36.1S5	0.1041	5	0
Gleason RC				21-RJK-DMS02	2/17/2021		15.085	0.000	15.085	0.1041	2	0
Robin's Place RC				21-RJK-DMS02	2/23/2021		16.545	0.000	16.S4S	0.1041	3	0



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CAUSTIC DISSOLUTION DATA REPORT

SampleID	Micro_Fusion_No	Peroxide_Fusion_No	Conc_Wt_g	Process_End_Date	Proc_Comments
Paradis Pond RC			201.9	2/19/2021	2 Vials - 163.4g & 38.5g
Gleason RC			125.2	2/22/2021	
Robin's Place RC			50.0	2/25/2021	



CAUSTIC ASSOLUTION DATA REPORT

SampleID	Peroxide_Fusion_No	Conc_Wt_g	Process_End_Date	Proc_Comments
Paradis PondRC		201.9	02/19/21	2 Vials - 163.4• & 38.5•

CAUSTIC SOLUTION DATA REPORT

SampleID	Dataset	DiamSource	LabCode	Batch_Number	Process_Start_Date	Sample_Weight_Wet_kg	Sample_Weight_Dry_kg	Sample_Weight_Improc_kg	Sample_Weight_Proc_kg	Low_Mesh Size_mm	Prim_Burns_No	Sec_Burns_No	Mticro_Fusion_No
Paradis Pond RC				21-RJK-DMS02	02/11/21		36.155	0.000	36.155	0.1041	5	0	

Appendix D: Work Expenditure Invoices